

**USED OIL TANK SITE ASSESSMENT AND
INDEPENDENT CLEANUP REPORT**

**816 Northeast 57th Street
Seattle, Washington 98105
FILCO PROJECT NUMBER 25568**



FILCO COMPANY INC.

Environmental Services

**CONTRACTORS LICENSE NUMBER FILCOCI080RU
ICC CERTIFIED
www.FilcoEnviro.com**

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USED OIL TANK SITE ASSESSMENT AND INDEPENDENT CLEANUP REPORT

November 11, 2016

816 Northeast 57th Street, Seattle, Washington 98105

FILCO Project Number 25568

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USED OIL TANK SITE ASSESSMENT AND INDEPENDENT CLEANUP REPORT

November 11, 2016

816 Northeast 57th Street, Seattle, Washington 98105

FILCO Project Number 25568

1.0 Project Background

The Subject Property is a residential property located at 816 Northeast 57th Street, Seattle, Washington as shown on Figure 1, *Vicinity Map*. The Subject Property is currently owned by Michael and Marybeth Morris. The residential structure was formerly heated with an oil furnace associated with a 300 gallon underground storage tank (UST). The owner reported that the tank was taken out of service in the late 1970s. The owner reported to Filco that used petroleum products had been put into the tank in the past. Filco Company Inc. (Filco) was retained by the owner to remove the UST and perform a site assessment as required by the Washington State Department of Ecology (Ecology). A utility locate was performed to identify known underground utilities.

2.0 General Site Conditions

The general area of the site slopes downward to the north at a grade of approximately 1% as shown on Figure 1, *Vicinity Map*. At the time of our site reconnaissance, the site appeared to have a generally flat relief. Site soils consisted of medium dense, moist, brown, clayey-silt with sand (Unified Soil Classification symbol SM); which does not appear to be consistent with the mapped geology of Qvt (glacial lodgement till) as shown on Figure 2, *Geology Map*. The soil encountered has the characteristics of recessional outwash (Qvr) which overlies the glacial till and is mapped nearby (approximately 250 feet west of the site).

3.0 UST Removal and Site Assessment

Filco provided the required 30-Day notice of the planned UST removal to Ecology. After receiving approval to remove the UST, Filco obtained the requisite commercial UST removal permit from the Seattle Fire Department, and arranged for the oversight of the tank removal by a Seattle Fire Inspector.

Mechanized Cleaning Solutions working under subcontract to Filco pumped approximately 200 gallons of a petroleum hydrocarbon and water mixture from the UST and performed a triple rinse of the tank interior. The fluid mixture was transported to the Marine facility for treatment. After the UST was cleaned and pumped of all fluids, a Marine Chemist from Sound Testing tested the tank atmosphere and certified the UST as being safe for removal and offsite transport. A Seattle Fire Department inspector confirmed the UST was safe for removal.

Filco used a tracked excavator to unearth the UST. The UST was a steel tank in poor condition with rusting and pitting breaching the tank interior. The UST was loaded onto a Filco vehicle for transport to Marvac's facility where the tank was prepared for recycling at Seattle Iron and Metals.

A Filco ICC-certified UST Site Assessor collected three site assessment soil samples from the base of the tank pit (TP1), the north end wall (TP2) and south end wall (TP3) of the UST removal basin, along with three samples from the stockpile of excavated overburden soils (Samples SP1, SP2, and SP3).



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The Filco site assessor collected soil samples in 4 ounce jars for diesel-motor oil range total petroleum hydrocarbon (TPH), carcinogenic polynuclear aromatic hydrocarbons (cPAHs), polychlorinated biphenyls (PCBs) and total lead analysis. The samples collected for analysis of volatile organic compounds including gasoline TPH were collected using laboratory supplied collection equipment and containers following EPA Method 5035A protocols to minimize the potential loss of volatile compounds.

The samples were chilled with ice packs, placed in a cooler following chain of custody procedures and submitted to Friedman & Bruya, a Washington State certified analytical laboratory. The samples were submitted for analytical testing using the analytes listed in WAC 173-340-900 Table 830-1 (Required Testing for Petroleum Releases).

Friedman & Bruya analyzed samples selected by the site assessor as representative of the release. Tank basin sample (TP1) and a stockpile sample (SP2) were selected to be analyzed for the presence of diesel and motor oil range total petroleum hydrocarbons (TPH) using Northwest Analytical Method NWTPH-Dx. The samples were also analyzed for gasoline range TPH using Northwest Analytical Method NWTPH-Gx, total lead using EPA Analytical Method 200.8, carcinogenic polynuclear aromatic hydrocarbons (CPAHs) using EPA Analytical Method 8270-SIM, volatile organic compounds (VOCs) using EPA Analytical Method 8260, semivolatile compounds using EPA Method 8270D SIM and Polychlorinated Biphenyls (PCBs) using EPA Analytical Method 8080A. Analytical results are presented in Tables 1 through 4. Laboratory analytical certificates are located in Appendix A.

Table 1. Soil Sample Analytical Results
Total Diesel (C₁₀-C₂₅) and Motor Oil (C₂₅-C₃₆) Range Petroleum Hydrocarbons
Using Northwest Method NWTPH-Dx

Results in milligrams per kilograms equivalent to parts per million (ppm)

Sample Number	Date Collected	Type or Depth (fbg)	Diesel Range TPH	Motor Oil TPH	Status
TP1	6/21/2016	Assessment /6'	410	<250	removed
SP2	6/21/2016	Stockpile	1,700	350	removed
NSW-7	9/27/2016	7'	9,900	3,900	removed
ESW-7	9/27/2016	7'	2,000	<250	removed
WSW-7	9/27/2016	7'	400	<250	removed
SSW-7'	9/27/2016	7'	890	<250	removed
Base-8'	9/30/2016	8'	2,100	<250	removed
NSW2-8'	9/30/2016	8'	<50	<250	in place
ESW2-8'	9/30/2016	8'	<50	<250	in place
WSW2-8'	9/30/2016	8'	410	<250	removed
SSW2-8'	9/30/2016	8'	<50	<250	in place
Base2-9'	9/30/2016	9'	340	<250	in place
MTCA	Method A	Cleanup Level	2,000	2,000	

Sample Nomenclature: WSW= West sidewall, ESW=East sidewall, NSW=North sidewall, SSW=South sidewall, SP=Stockpile, Base=Bottom of excavation. Analytical results in **bold** are greater than or equal to the MTCA A CL.



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Table 2. Soil Sample Analytical Results
Polychlorinated Biphenyls (PCBs) as Aroclors
Using EPA Method 8082A
Results in parts per million (ppm)

Sample	Date	Type	Aroclor 1221	Aroclor 1232	Aroclor 1016	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
TP1	6/21/2016	S	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SP2	6/21/2016	A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MTCA	A CL in ppm		1.0	1.0	1.0	1.0	1.0	1.0	1.0

Nomenclature: S=stockpile sample, A=Assessment sample.

Table 3. Soil Sample Analytical Results
Total VOCs including Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) Analyzed using EPA Method 8260C
Total Gasoline Range Petroleum Hydrocarbons Analyzed using Method NWTPH-Gx
Total Lead Analyzed using EPA Method 200.8
Results in Parts per Million (ppm)

Sample Number	Date	Type/Status	Gasoline TPH	Benzene	Toluene	Ethylbenzene	Xylenes	VOCs ³	Total Lead
TP1	6/21/2016	A/R	82	<0.03	<0.05	0.20	3.10	<MTCA	8.33
SP2	6/21/2016	S/R	520	<0.03	<0.05	0.84	19.2	<MTCA	98.00
NSW-7'	9/27/2016	D/R	4,300	0.22	2.5	16	230	NA	NA
ESW-7'	9/27/2016	D/R	130	<0.02	<0.02	<0.02	1.7	NA	NA
WSW-7'	9/27/2016	D/R	95	<0.02	<0.02	<0.02	0.82	NA	NA
SSW-7'	9/27/2016	D/R	130	<0.02	<0.02	<0.02	1.2	NA	NA
Base-8	9/27/2016	D/R	370	0.034	0.029	<0.02	7.9	NA	NA
NSW2-8'	9/30/2016	C/IP	22	<0.02	<0.02	<0.02	<0.06	NA	NA
ESW2-8'	9/30/2016	C/IP	12	<0.02	<0.02	<0.02	<0.06	NA	NA
WSW2-8'	9/30/2016	D/R	180	<0.02	<0.02	<0.02	0.69	NA	NA
SSW2-8'	9/30/2016	C/IP	<2	<0.02	<0.02	<0.02	<0.06	NA	NA
Base2-9'	9/30/2016	C/IP	82	<0.02	<0.02	<0.02	0.63	NA	NA
WSW3-8'	10/10/2016	C/IP	<2	<0.02	<0.02	<0.02	<0.06	NA	NA
MTCA A	CLs in ppm		30/100 ¹	0.03	7	6	9 ²		250

Nomenclature: S= Stockpile Sample, A= Site Assessment Sample, C= Cleanup Confirmation Sample, D= Documentation Sample. Status: R=Removed, IP=In Place. 30/100¹= 100 ppm is the soil cleanup level of gasoline mixtures without benzene and the total of BETX are less than 1% of the gasoline range petroleum hydrocarbons. The cleanup level is 30 ppm if benzene or a mixture of BTEX>1% is present. 9²ppm=cleanup level based on total xylenes (m,p xylene + o-xylene). VOCs³; including 1,2-Dibromoethane (EDB) were either not detected above laboratory MRLs or at concentrations below any cleanup levels (trimethylbenzene compounds, typically associated with DRO releases, were detected at low levels not exceeding CLARC limits). Naphthalene results are listed in Table 4. Analytical results in **bold** are greater than or equal to the respective MTCA A CL.



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Table 4. Soil Sample Analytical Results
Semivolatile Organic Compounds using SW8270D SIM in parts per billion (ppb)

SAMPLE	DATE	TYPE	Total Naphthalenes	Benzo(a)-Anthracene	Chrysene	Benzo(a)-pyrene)	Benzo(b)fluor-Anthene	Benzo(k)fluor-Anthene	Indeno (1,2,3d)pyrene	Dibenz(a,h)-anthracene	TEF (cPAHs)	STATUS
TP1	9/7/2016	A	2.64	<10	<10	<10	<10	<10	<10	<10	<10	removed
SP2	9/7/2016	S	21.5	110	95	64	81	28	25	0	89.35	removed
NSW-7'	9/27/2016	D	214	NA	NA	NA	NA	NA	NA	NA	NA	removed
ESW-7'	9/27/2016	D	8.4	NA	NA	NA	NA	NA	NA	NA	NA	removed
WSW-7'	9/27/2016	D	3.48	NA	NA	NA	NA	NA	NA	NA	NA	removed
SSW-7'	9/27/2016	D	4.27	NA	NA	NA	NA	NA	NA	NA	NA	removed
BASE-8'	9/27/2016	D	12.3	NA	NA	NA	NA	NA	NA	NA	NA	removed
NSW2-8'	9/30/2016	C	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	in place
ESW2-8'	9/30/2016	C	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	removed
WSW2-8'	9/30/2016	D	0.92	NA	NA	NA	NA	NA	NA	NA	NA	in place
SSW2-8'	9/30/2016	C	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	in place
BASE2-9'	9/30/2016	C	1.7	NA	NA	NA	NA	NA	NA	NA	NA	in place
MTCA	A	CL	5.0								100*	

Nomenclature/acronyms: S=Stockpile sample, A=Site Assessment sample, D=Documentation (Performance) Sample, C=Cleanup Confirmation Sample. Model Toxics Control Act Method A (MTCA A) Cleanup Level 100 ppb (equivalent to 0.01 parts per million (ppm) = soil cleanup level in ppm for carcinogenic PAHs (cPAHs); based on direct contact; (Table 740-1 (WAC-340-900)). The cPAH cleanup level is calculated by adding up weighted values of all carcinogenic PAHs using the formula as described in (Table 708-2) WAC 173-340-708(e). Analytical results in **bold** are greater than or equal to the MTCA A CL.



4.0 Discussion of Analytical Results

Soil samples were collected during four separate events; the initial site assessment, five samples collected following preliminary remedial excavation activities on September 27, 2016, five samples collected on September 30, 2016 after additional remedial excavation was performed and one sample collected on October 10, 2016 following final remedial excavation activities.

4.1 Site Assessment Analytical Results

Site assessment samples collected on June 21, 2016 following removal of the UST were below MTCA A CLs for diesel-motor oil and gasoline range TPH and total lead. PCBs were not detected above laboratory Method Reporting Limits (MRLs). Samples TP1 and SP2 exhibited 82 ppm and 520 ppm gasoline range TPH respectively; exceeding the MTCA A CL for gasoline TPH. Naphthalenes were detected at levels exceeding the MTCA A CL of 5 ppm from sample SP2. Total lead was present in sample TP1 at 8.33 ppm and SP2 at 98 ppm, below the MTCA A CL of 250 ppm.

Analytical results for carcinogenic PAHs were obtained and used to calculate weighted Toxicity Equivalence Factor (TEF) values: <10 ppm (TP1) and 0.089 ppm (SP2) using equation 740-2 (WAC 173-340-708 (8)). Both sample results were below the TEF cleanup level of 0.1 ppm).

4.2 Initial Remedial Excavation Analytical Results

Based on site assessment samples confirming a release of gasoline/diesel petroleum hydrocarbons and naphthalenes, remedial excavation proceeded. Following the removal of 27.37 tons of DRO-impacted soil on September 27, 2016, soil samples were collected from the sidewalls and bottom of the remedial excavation. The soil samples were analyzed to quantify levels of diesel, heavy oil and gasoline, benzene, toluene, ethylbenzene and xylenes (BTEX) and naphthalenes present in the excavation. The results of the analytical testing indicated exceedances of MTCA A CLs for gasoline TPH, benzene and/or naphthalenes in the north sidewall (NSW-7'), west sidewall (WSW-7'), east sidewall (ESW-7'), south side wall (ssw-7') and the base of the remedial excavation (Base-8). The remedial excavation was expanded in all directions.

4.3 Final Remedial Excavation Analytical Results

During the second phase of remedial excavation activities on September 30, 2016, an additional 26.75 tons of soil were removed from each of the remedial excavation sidewalls and bottom. The remedial excavation was then resampled. Analytical results indicated all locations in the remedial excavation met MTCA A CLs for naphthalene, gasoline TPH and BTEX with the exception of WSW2-8 which contained 180 ppm of gasoline range TPH. This area underwent additional remedial excavation by excavating further to the west on October 10, 2016. A final load of 7.88 tons of soil was removed from the west sidewall. Once field tests appeared to indicate the soil met MTCA A CLs, sample WSW3-8' was then collected to document gasoline TPH levels. Sample WSW3-8 exhibited levels of gasoline and BTEX below laboratory MRLs. No further remedial excavation was performed based on the final cleanup confirmation sample results.



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5.0 Conclusions and Recommendations

A total of 62 tons of impacted soil was excavated between September 27 and October 10, 2016. The petroleum hydrocarbon-impacted soil was transported off site to Waste Management's Alaska Street drop off facility in Seattle, Washington with eventual transport to their Columbia Ridge, Subtitle D Landfill, located in Arlington, Oregon. Landfill disposal documentation is located in Appendix B. The Subject Property was backfilled with clean imported Type 17 sandy gravel. Remedial excavation was successful, removing petroleum hydrocarbon-impacted soil from all areas and bringing the site into compliance with the applicable MTCA A CLs. No further remedial excavation appears to be warranted. Groundwater was not observed in the remedial excavation. Washington State Department of Ecology Site assessment forms and project permits are located in Appendix C.

6.0 Statement of Existing Conditions and Limitations

The results of this independent cleanup do not preclude the existence of impacts to soil or groundwater in areas on or off the Subject Property that were not sampled during the course of the project. Filco does not warrant that additional tanks or soil contamination does not exist on the Subject Property, or that migration of contamination on to the Subject Property has not occurred from offsite properties. If other tanks or contaminant sources are subsequently discovered, Filco is not liable for such subsequent discoveries.

Work by Filco associated with this task was performed, and this report was prepared in accordance with generally accepted professional practices for work of this nature, at the time it was performed. No warranty, expressed or implied, is made. Should you have any questions regarding this report or any of the activities and analytical results documented herein, please do not hesitate to contact Filco.

FILCO COMPANY INCORPORATED

Jordin Bittenob
Environmental Scientist
Washington State Site Assessor #8291441

Richard N. Simpson, LG/LHg
Senior Geologist/ Hydrogeologist

FIGURE 1: Vicinity Map

FIGURE 2: Geology Map

FIGURE 3: Site Schematic – Used Oil Tank Site Assessment/Remedial Excavation with Cleanup Sample Locations

FIGURE 4: Project Photographs

APPENDIX A: ANALYTICAL RESULTS

APPENDIX B: SOIL DISPOSAL DOCUMENTATION

APPENDIX C: ECOLOGY SITE ASSESSMENT FORMS & PERMITS



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7.0 References

1. Guidance for Remediation of Petroleum Contaminated Sites – Washington State Department of Ecology Toxics Cleanup Program, Revised June 2016.
2. Guidance for Remediation of Releases from Underground Storage Tanks – Washington State Department of Ecology Toxics Cleanup Program, July 1991.
3. Guidance for Site Checks and Site Assessments for Underground Storage Tanks – Washington State Department of Ecology, Revised October 1992.
4. Washington State Model Toxics Control Act – Chapter 173-340 WAC.
5. Underground Storage Tank Regulations – Chapter 173-360 WAC.

FIGURES

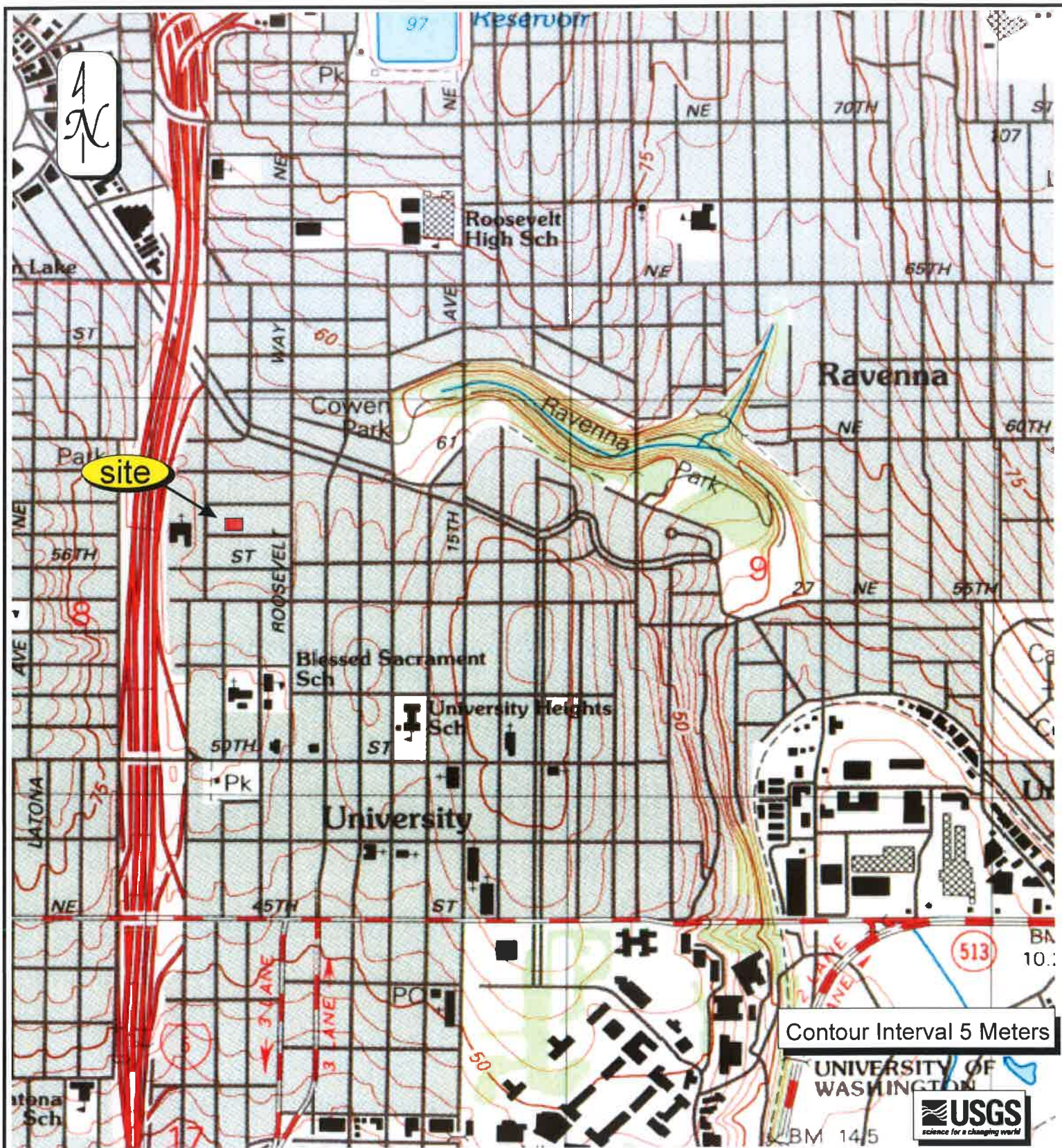


Figure 1. Vicinity Map
USGS Seattle North Topographic Map (1983)
 Site Address: 816 Northeast 57th Street
 Seattle, Washington 98105
 FILCO JOB NUMBER 25568
FILCO COMPANY INCORPORATED
 P.O. Box 31228, Seattle, Washington 98103



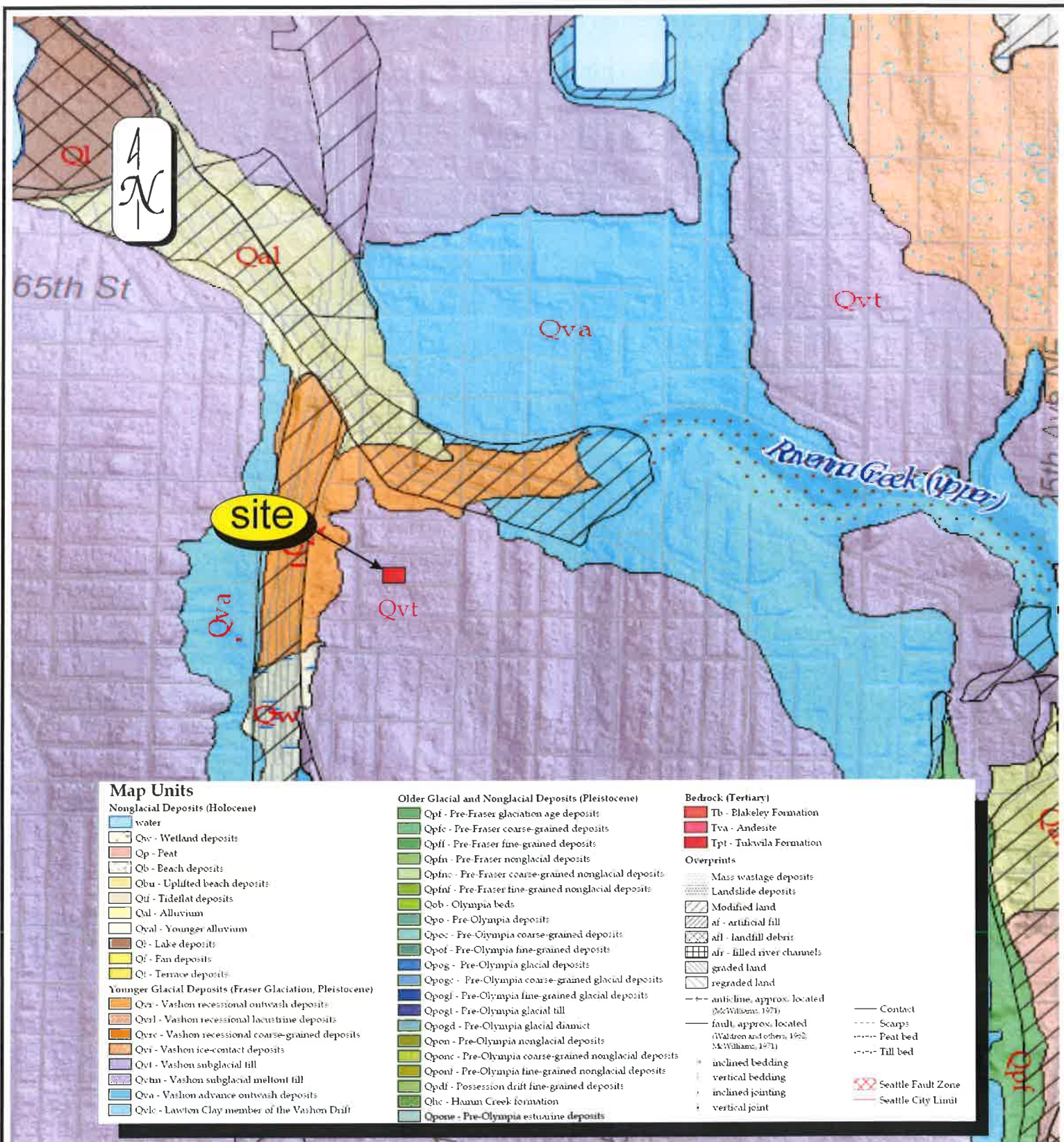
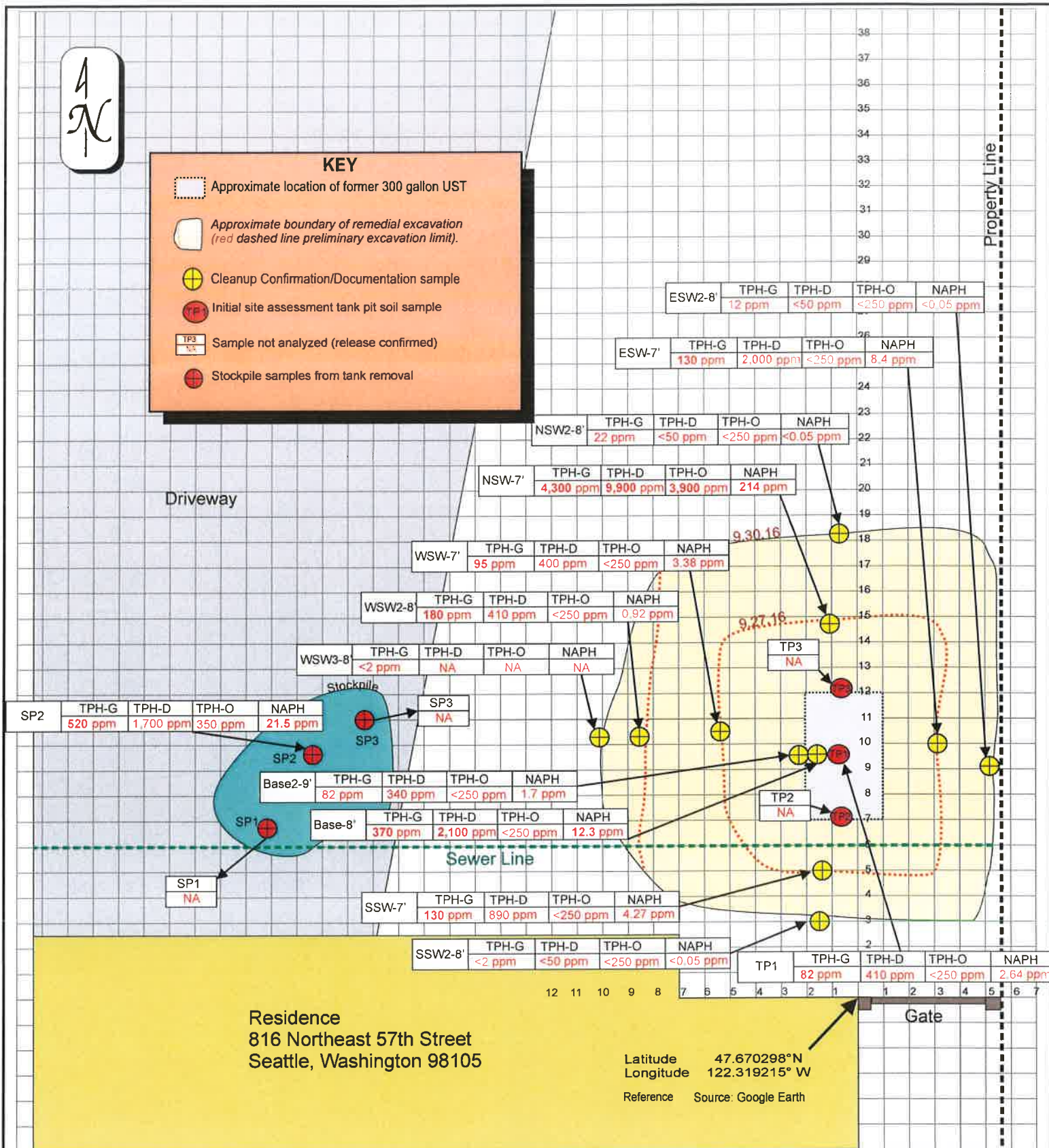


Figure 2. Geology Map
The Geologic Map of Seattle - a Progress Report
Kathy Goetz Troost, Derek B. Booth, Arron P. Wisher and Scott A. Schimel (2005)
Open File Report 2005-1252



Site Address: 816 Northeast 57th Street, Seattle, Washington 98105
FILCO JOB NUMBER 25568

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P.O. Box 31228, Seattle, Washington 98103



**Figure 3. Site Schematic: Used Oil Tank Site Assessment
Remedial Excavation with Cleanup Confirmation Sample Locations**
Site Address: 816 Northeast 57th Street, Seattle, Washington 98105
FILCO JOB NUMBER 25568



FILCO COMPANY INCORPORATED
P.O. Box 31228, Seattle, Washington 98103



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FIGURE 4: SITE PHOTOGRAPHS



Photograph 1. View of the project area.



Photograph 2. View of corrosion holes on the UST.



Photograph 3. View of the excavation taking place.



Photograph 4. View of the contaminated area.



Photograph 5. View of the repaired sewer line.



Photograph 6. View of the excavation being backfilled and compacted.

APPENDIX A
ANALYTICAL LABORATORY
CERTIFICATES

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
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July 8, 2016

Jordin Buttenob, Project Manager
Filco Company, Inc.
PO Box 31228
Seattle, WA 98103

Dear Mr Buttenob:

Included are the results from the testing of material submitted on June 22, 2016 from the 816 NE 57th St, PO 25568, F&BI 606405 project. There are 27 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Matthew Langston
Project Manager

Enclosures
FCI0708R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/08/16

Date Received: 06/22/16

Project: 816 NE 57th St, PO 25568, F&BI 606405

Date Extracted: 06/22/16

Date Analyzed: 06/22/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
TP1 606405-01	82	122
SP2 606405-05	520	ip
Method Blank 06-1244 MB	<2	102

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/08/16

Date Received: 06/22/16

Project: 816 NE 57th St, PO 25568, F&BI 606405

Date Extracted: 06/22/16

Date Analyzed: 06/23/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 53-144)
TP1 606405-01	410	<250	107
SP2 606405-05	1,700	350	112
Method Blank 06-1271 MB	<50	<250	96

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	TP1	Client:	Filco Company
Date Received:	06/22/16	Project:	816 NE 57th St, F&BI 606405
Date Extracted:	06/23/16	Lab ID:	606405-01
Date Analyzed:	06/23/16	Data File:	606405-01.119
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
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Lead	8.33
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ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	SP2	Client:	Filco Company
Date Received:	06/22/16	Project:	816 NE 57th St, F&BI 606405
Date Extracted:	06/23/16	Lab ID:	606405-05
Date Analyzed:	06/23/16	Data File:	606405-05.120
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
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Lead	98.0
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	Filco Company
Date Received:	NA	Project:	816 NE 57th St, F&BI 606405
Date Extracted:	06/23/16	Lab ID:	I6-404 mb
Date Analyzed:	06/23/16	Data File:	I6-404 mb.017
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
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Lead	<1
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	TP1	Client:	Filco Company
Date Received:	06/22/16	Project:	816 NE 57th St, F&BI 606405
Date Extracted:	06/23/16	Lab ID:	606405-01 1/5
Date Analyzed:	06/23/16	Data File:	062317.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	95	31	163
Benzo(a)anthracene-d12	94	24	168

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.44
2-Methylnaphthalene	1.1
1-Methylnaphthalene	1.1
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	SP2	Client:	Filco Company
Date Received:	06/22/16	Project:	816 NE 57th St, F&BI 606405
Date Extracted:	06/23/16	Lab ID:	606405-05 1/5
Date Analyzed:	06/23/16	Data File:	062318.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	95	31	163
Benzo(a)anthracene-d12	97	24	168

Compounds:	Concentration mg/kg (ppm)
Naphthalene	3.2 ve
2-Methylnaphthalene	8.3 ve
1-Methylnaphthalene	6.4 ve
Benz(a)anthracene	0.11
Chrysene	0.095
Benzo(a)pyrene	0.064
Benzo(b)fluoranthene	0.081
Benzo(k)fluoranthene	0.028
Indeno(1,2,3-cd)pyrene	0.025
Dibenz(a,h)anthracene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	SP2	Client:	Filco Company
Date Received:	06/22/16	Project:	816 NE 57th St, F&BI 606405
Date Extracted:	06/23/16	Lab ID:	606405-05 1/50
Date Analyzed:	06/23/16	Data File:	062312.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	102 d	31	163
Benzo(a)anthracene-d12	119 d	24	168

Compounds:	Concentration mg/kg (ppm)
Naphthalene	3.5
2-Methylnaphthalene	10
1-Methylnaphthalene	8.0
Benz(a)anthracene	0.12
Chrysene	0.11
Benzo(a)pyrene	<0.1
Benzo(b)fluoranthene	<0.1
Benzo(k)fluoranthene	<0.1
Indeno(1,2,3-cd)pyrene	<0.1
Dibenz(a,h)anthracene	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	Filco Company
Date Received:	Not Applicable	Project:	816 NE 57th St, F&BI 606405
Date Extracted:	06/23/16	Lab ID:	06-1278 mb 1/5
Date Analyzed:	06/23/16	Data File:	062307.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	93	31	163
Benzo(a)anthracene-d12	97	24	168

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.01
2-Methylnaphthalene	<0.01
1-Methylnaphthalene	<0.01
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: TP1	Client: Filco Company
Date Received: 06/22/16	Project: 816 NE 57th St, F&BI 606405
Date Extracted: 06/23/16	Lab ID: 606405-01
Date Analyzed: 06/23/16	Data File: 062336.D
Matrix: Soil	Instrument: GCMS9
Units: mg/kg (ppm) Dry Weight	Operator: JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	89	113
Toluene-d8	101	64	137
4-Bromofluorobenzene	99	81	119

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	0.20
Acetone	<0.5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	2.3
Hexane	<0.25	o-Xylene	0.80
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	0.070
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	0.21
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<0.5	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	0.57
Benzene	<0.03	sec-Butylbenzene	0.067
Trichloroethene	<0.02	p-Isopropyltoluene	0.070
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<0.5	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	0.49
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	SP2	Client:	Filco Company
Date Received:	06/22/16	Project:	816 NE 57th St, F&BI 606405
Date Extracted:	06/23/16	Lab ID:	606405-05
Date Analyzed:	06/23/16	Data File:	062337.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	89	113
Toluene-d8	100	64	137
4-Bromofluorobenzene	97	81	119

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	0.84
Acetone	<0.5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	14
Hexane	<0.25	o-Xylene	5.2
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	0.26
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	0.43
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	1.5
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<0.5	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	3.9
Benzene	<0.03	sec-Butylbenzene	0.31
Trichloroethene	<0.02	p-Isopropyltoluene	0.32
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<0.5	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	3.8
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	Filco Company
Date Received:	Not Applicable	Project:	816 NE 57th St, F&BI 606405
Date Extracted:	06/23/16	Lab ID:	06-1261 mb
Date Analyzed:	06/23/16	Data File:	062314.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	89	113
Toluene-d8	99	64	137
4-Bromofluorobenzene	98	81	119

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<0.5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<0.5	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<0.5	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	TP1	Client:	Filco Company
Date Received:	06/22/16	Project:	816 NE 57th St, F&BI 606405
Date Extracted:	07/05/16	Lab ID:	606405-01
Date Analyzed:	07/05/16	Data File:	070510.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	96	50	150
4-Bromofluorobenzene	126 J	50	150

Compounds:	Concentration mg/kg (ppm)
1,2-Dibromoethane (EDB)	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	SP2	Client:	Filco Company
Date Received:	06/22/16	Project:	816 NE 57th St, F&BI 606405
Date Extracted:	07/05/16	Lab ID:	606405-05
Date Analyzed:	07/05/16	Data File:	070511.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	89	50	150
4-Bromofluorobenzene	77 J	50	150

Compounds:	Concentration mg/kg (ppm)
1,2-Dibromoethane (EDB)	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	Method Blank	Client:	Filco Company
Date Received:	Not Applicable	Project:	816 NE 57th St, F&BI 606405
Date Extracted:	07/05/16	Lab ID:	06-1310 mb
Date Analyzed:	07/05/16	Data File:	070509.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	103	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration mg/kg (ppm)
1,2-Dibromoethane (EDB)	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	TP1	Client:	Filco Company
Date Received:	06/22/16	Project:	816 NE 57th St, F&BI 606405
Date Extracted:	06/23/16	Lab ID:	606405-01 1/25
Date Analyzed:	06/24/16	Data File:	062416.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	79	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	<0.1
Aroclor 1262	<0.1
Aroclor 1268	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	SP2	Client:	Filco Company
Date Received:	06/22/16	Project:	816 NE 57th St, F&BI 606405
Date Extracted:	06/23/16	Lab ID:	606405-05 1/25
Date Analyzed:	06/24/16	Data File:	062417.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	82	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	<0.1
Aroclor 1262	<0.1
Aroclor 1268	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	Filco Company
Date Received:	Not Applicable	Project:	816 NE 57th St, F&BI 606405
Date Extracted:	06/23/16	Lab ID:	06-1282 mb 1/5
Date Analyzed:	06/23/16	Data File:	062329.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	mp

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	94	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/08/16

Date Received: 06/22/16

Project: 816 NE 57th St, PO 25568, F&BI 606405

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR TPH AS GASOLINE
USING METHOD NWTPH-G_x**

Laboratory Code: 606301-04 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	20	95	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/08/16

Date Received: 06/22/16

Project: 816 NE 57th St, PO 25568, F&BI 606405

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C DIRECT SPARGE

Laboratory Code: 606405-05 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet wt)	Duplicate Result (Wet wt)	RPD (Limit 20)
1,2-Dibromoethane (EDB)	mg/kg (ppm)	<0.005	<0.005	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
1,2-Dibromoethane (EDB)	mg/kg (ppm)	0.05	112	118	70-130	5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/08/16

Date Received: 06/22/16

Project: 816 NE 57th St, PO 25568, F&BI 606405

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL
SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 606376-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	100	113	64-133	12

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	106	58-147

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/08/16

Date Received: 06/22/16

Project: 816 NE 57th St, PO 25568, F&BI 606405

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL METALS USING EPA METHOD 200.8**

Laboratory Code: 606408-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Lead	mg/kg (ppm)	50	980	0 b	0 b	70-130	0 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Lead	mg/kg (ppm)	50	107	85-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/08/16

Date Received: 06/22/16

Project: 816 NE 57th St, PO 25568, F&BI 606405

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL
SAMPLES FOR PAHS BY EPA METHOD 8270D SIM**

Laboratory Code: 606360-04 1/25 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Acceptance Criteria
Naphthalene	mg/kg (ppm)	0.17	<0.05	84	44-129
2-Methylnaphthalene	mg/kg (ppm)	0.17	<0.05	82	45-135
1-Methylnaphthalene	mg/kg (ppm)	0.17	<0.05	81	40-141
Benz(a)anthracene	mg/kg (ppm)	0.17	<0.05	95	23-144
Chrysene	mg/kg (ppm)	0.17	0.068	89 b	32-149
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	<0.05	93	23-176
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	<0.05	93	42-139
Benzo(a)pyrene	mg/kg (ppm)	0.17	<0.05	89	21-163
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	<0.05	81	23-170
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	<0.05	81	31-146

Laboratory Code: Laboratory Control Sample 1/5

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	86	88	58-121	2
2-Methylnaphthalene	mg/kg (ppm)	0.17	84	86	58-123	2
1-Methylnaphthalene	mg/kg (ppm)	0.17	85	86	60-124	1
Benz(a)anthracene	mg/kg (ppm)	0.17	94	96	51-115	2
Chrysene	mg/kg (ppm)	0.17	91	93	55-129	2
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	93	91	56-123	2
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	87	92	54-131	6
Benzo(a)pyrene	mg/kg (ppm)	0.17	86	87	51-118	1
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	95	93	49-148	2
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	94	93	50-141	1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/08/16

Date Received: 06/22/16

Project: 816 NE 57th St, PO 25568, F&BI 606405

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 606408-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	2.5	<0.5	25	24	10-56	4
Chloromethane	mg/kg (ppm)	2.5	<0.5	50	49	10-90	2
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	50	50	10-91	0
Bromomethane	mg/kg (ppm)	2.5	<0.5	58	60	10-110	3
Chloroethane	mg/kg (ppm)	2.5	<0.5	62	62	10-101	0
Trichlorofluoromethane	mg/kg (ppm)	2.5	<0.5	57	58	10-95	2
Acetone	mg/kg (ppm)	12.5	<0.5	90	90	11-141	0
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	66	68	11-103	3
Hexane	mg/kg (ppm)	2.5	<0.25	53	55	10-95	4
Methylene chloride	mg/kg (ppm)	2.5	<0.5	80	81	14-128	1
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	<0.05	83	84	17-134	1
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	75	76	13-112	1
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	77	78	23-115	1
2,2-Dichloropropane	mg/kg (ppm)	2.5	<0.05	89	89	18-117	0
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	80	81	25-120	1
Chloroform	mg/kg (ppm)	2.5	<0.05	82	82	29-117	0
2-Butanone (MEK)	mg/kg (ppm)	12.5	<0.5	88	89	20-133	1
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	87	88	22-124	1
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	83	83	27-112	0
1,1-Dichloropropene	mg/kg (ppm)	2.5	<0.05	77	78	26-107	1
Carbon tetrachloride	mg/kg (ppm)	2.5	<0.05	83	84	22-115	1
Benzene	mg/kg (ppm)	2.5	<0.03	77	77	26-114	0
Trichloroethene	mg/kg (ppm)	2.5	<0.02	78	79	30-112	1
1,2-Dichloropropane	mg/kg (ppm)	2.5	<0.05	84	85	31-119	1
Bromodichloromethane	mg/kg (ppm)	2.5	<0.05	86	87	31-131	1
Dibromomethane	mg/kg (ppm)	2.5	<0.05	83	82	27-124	1
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	<0.5	94	94	16-147	0
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.05	92	92	28-137	0
Toluene	mg/kg (ppm)	2.5	<0.05	81	82	34-112	1
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.05	90	89	30-136	1
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	<0.05	88	88	32-126	0
2-Hexanone	mg/kg (ppm)	12.5	<0.5	91	90	17-147	1
1,3-Dichloropropane	mg/kg (ppm)	2.5	<0.05	85	85	29-125	0
Tetrachloroethene	mg/kg (ppm)	2.5	<0.025	81	82	25-114	1
Dibromochloromethane	mg/kg (ppm)	2.5	<0.05	92	93	32-143	1
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	<0.05	88	89	32-126	1
Chlorobenzene	mg/kg (ppm)	2.5	<0.05	81	81	37-113	0
Ethylbenzene	mg/kg (ppm)	2.5	<0.05	81	81	34-115	0
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.05	93	93	35-126	0
m,p-Xylene	mg/kg (ppm)	5	<0.1	82	83	25-125	1
o-Xylene	mg/kg (ppm)	2.5	<0.05	84	84	27-126	0
Styrene	mg/kg (ppm)	2.5	<0.05	86	86	39-121	0
Isopropylbenzene	mg/kg (ppm)	2.5	<0.05	84	86	34-123	2
Bromoform	mg/kg (ppm)	2.5	<0.05	88	87	18-155	1
n-Propylbenzene	mg/kg (ppm)	2.5	<0.05	84	84	31-120	0
Bromobenzene	mg/kg (ppm)	2.5	<0.05	83	82	40-115	1
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	<0.05	83	83	24-130	0
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.05	88	88	27-148	0
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	<0.05	88	89	33-123	1
2-Chlorotoluene	mg/kg (ppm)	2.5	<0.05	82	82	39-110	0
4-Chlorotoluene	mg/kg (ppm)	2.5	<0.05	85	84	39-111	1
tert-Butylbenzene	mg/kg (ppm)	2.5	<0.05	87	87	36-116	0
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	<0.05	83	84	35-116	1
sec-Butylbenzene	mg/kg (ppm)	2.5	<0.05	85	86	33-118	1
p-Isopropyltoluene	mg/kg (ppm)	2.5	<0.05	85	85	32-119	0
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	<0.05	83	83	38-111	0
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	<0.05	82	81	39-109	1
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	<0.05	82	81	40-111	1
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	<0.5	93	91	37-122	2
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	<0.25	83	85	31-121	2
Hexachlorobutadiene	mg/kg (ppm)	2.5	<0.25	86	87	24-128	1
Naphthalene	mg/kg (ppm)	2.5	<0.05	87	88	24-139	1
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	<0.25	82	82	35-117	0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/08/16

Date Received: 06/22/16

Project: 816 NE 57th St, PO 25568, F&BI 606405

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Dichlorodifluoromethane	mg/kg (ppm)	2.5	52	10-76
Chloromethane	mg/kg (ppm)	2.5	71	34-98
Vinyl chloride	mg/kg (ppm)	2.5	76	42-107
Bromomethane	mg/kg (ppm)	2.5	77	46-113
Chloroethane	mg/kg (ppm)	2.5	86	47-115
Trichlorofluoromethane	mg/kg (ppm)	2.5	86	53-112
Acetone	mg/kg (ppm)	12.5	106	39-147
1,1-Dichloroethene	mg/kg (ppm)	2.5	93	65-110
Hexane	mg/kg (ppm)	2.5	94	55-107
Methylene chloride	mg/kg (ppm)	2.5	99	50-127
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	97	72-122
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	98	71-113
1,1-Dichloroethane	mg/kg (ppm)	2.5	96	74-109
2,2-Dichloropropane	mg/kg (ppm)	2.5	103	64-151
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	98	73-110
Chloroform	mg/kg (ppm)	2.5	96	76-110
2-Butanone (MEK)	mg/kg (ppm)	12.5	104	60-121
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	102	73-111
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	101	72-116
1,1-Dichloropropene	mg/kg (ppm)	2.5	97	72-112
Carbon tetrachloride	mg/kg (ppm)	2.5	103	67-123
Benzene	mg/kg (ppm)	2.5	93	72-106
Trichloroethene	mg/kg (ppm)	2.5	93	72-107
1,2-Dichloropropane	mg/kg (ppm)	2.5	101	74-115
Bromodichloromethane	mg/kg (ppm)	2.5	102	75-126
Dibromomethane	mg/kg (ppm)	2.5	98	76-116
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	111	80-128
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	108	71-138
Toluene	mg/kg (ppm)	2.5	97	74-111
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	106	77-135
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	105	77-116
2-Hexanone	mg/kg (ppm)	12.5	104	70-129
1,3-Dichloropropane	mg/kg (ppm)	2.5	101	75-115
Tetrachloroethene	mg/kg (ppm)	2.5	100	73-111
Dibromochloromethane	mg/kg (ppm)	2.5	109	64-152
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	106	77-117
Chlorobenzene	mg/kg (ppm)	2.5	95	76-109
Ethylbenzene	mg/kg (ppm)	2.5	97	75-112
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	108	76-125
m,p -Xylene	mg/kg (ppm)	5	99	77-115
o-Xylene	mg/kg (ppm)	2.5	101	76-115
Styrene	mg/kg (ppm)	2.5	102	76-119
Isopropylbenzene	mg/kg (ppm)	2.5	102	76-120
Bromoform	mg/kg (ppm)	2.5	101	50-174
n-Propylbenzene	mg/kg (ppm)	2.5	100	77-115
Bromobenzene	mg/kg (ppm)	2.5	98	76-112
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	99	77-121
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	103	74-121
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	102	74-116
2-Chlorotoluene	mg/kg (ppm)	2.5	98	75-113
4-Chlorotoluene	mg/kg (ppm)	2.5	99	77-115
tert-Butylbenzene	mg/kg (ppm)	2.5	101	77-123
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	100	77-119
sec-Butylbenzene	mg/kg (ppm)	2.5	102	78-120
p-Isopropyltoluene	mg/kg (ppm)	2.5	101	77-120
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	97	76-112
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	96	74-109
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	94	75-114
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	105	68-122
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	94	75-122
Hexachlorobutadiene	mg/kg (ppm)	2.5	99	74-130
Naphthalene	mg/kg (ppm)	2.5	97	73-122
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	95	75-117

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/08/16

Date Received: 06/22/16

Project: 816 NE 57th St, PO 25568, F&BI 606405

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES FOR
POLYCHLORINATED BIPHENYLS AS
AROCOR 1016/1260 BY EPA METHOD 8082A**

Laboratory Code: 606430-03 1/50 (Matrix Spike) 1/50

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Control Limits
Aroclor 1016	mg/kg (ppm)	0.8	<0.2	89	50-150
Aroclor 1260	mg/kg (ppm)	0.8	<0.2	88	50-150

Laboratory Code: Laboratory Control Sample 1/5

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.8	86	91	55-130	6
Aroclor 1260	mg/kg (ppm)	0.8	89	96	58-133	8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c - The presence of the analyte may be due to carryover from previous sample injections.
- cf - The sample was centrifuged prior to analysis.
- d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv - Insufficient sample volume was available to achieve normal reporting limits.
- f - The sample was laboratory filtered prior to analysis.
- fb - The analyte was detected in the method blank.
- fc - The compound is a common laboratory and field contaminant.
- hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs - Headspace was present in the container used for analysis.
- ht - The analysis was performed outside the method or client-specified holding time requirement.
- ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- j1 - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc - The presence of the analyte is likely due to laboratory contamination.
- L - The reported concentration was generated from a library search.
- nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo - The value reported fell outside the control limits established for this analyte.
- x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



Jordin Burtsenab

Jordin@FilcoEnviro.com

Office: 206-547-8347 Fax: 206-548-9352

Street Address: 13190 Stone Avenue North, Seattle, WA 98133
Mailing Address: P.O. Box 31228, Seattle, WA 98103

SAMPLE CHAIN OF CUSTODY

~~REF~~ NC 06/22/16 USI/ BT/

SAMPLERS (signature)

PROJECT NAME/NO.

616 NE 57th St

REMARKS

please fax results

ANALYSES REQUESTED

[illegible]

Friedman & Bruya, Inc.
3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

SIGNATURE

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Received by:

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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

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www.friedmanandbruya.com

October 21, 2016

Richard Simpson, Project Manager
Filco Company, Inc.
PO Box 31228
Seattle, WA 98103

Dear Mr Simpson:

Included is the amended report for the 816 NE 57th St, F&BI 609470 project. There are 12 pages included in this report. The NWTPH-Dx results have been expressed as diesel and motor oil per your request.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Matthew Langston
Project Manager

Enclosures
FCI1004R.DOC

FRIEDMAN & BRUYA, INC.
ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

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October 4, 2016

Nate Montgomery, Project Manager
Filco Company, Inc.
PO Box 31228
Seattle, WA 98103

Dear Mr Montgomery:

Included are the results from the testing of material submitted on September 27, 2016 from the 816 NE 57th St, F&BI 609470 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Matthew Langston
Project Manager

Enclosures
FCI1004R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/04/16
 Date Received: 09/27/16
 Project: 816 NE 57th St, F&BI 609470
 Date Extracted: 09/29/16
 Date Analyzed: 09/29/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
 FOR BENZENE, TOLUENE, ETHYLBENZENE,
 XYLENES AND TPH AS GASOLINE
 USING METHODS 8021B AND NWTPH-Gx**
 Results Reported on a Dry Weight Basis
 Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-132)
NSW-7' 609470-01 1/5 and 1/20	0.22	2.5	16	230 ve	4,300	ip
ESW-7' 609470-02	<0.02	<0.02	<0.02	1.7	130	101
WSW-7' 609470-03	<0.02	<0.02	<0.02	0.82	95	94
SSW-7' 609470-04	<0.02	<0.02	<0.02	1.2	130	95
Base-8' 609470-05	0.034	0.029	<0.02	7.9 ve	370	120
Method Blank 06-1962 MB	<0.02	<0.02	<0.02	<0.06	<2	95

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/04/16
Date Received: 09/27/16
Project: 816 NE 57th St, F&BI 609470
Date Extracted: 09/28/16
Date Analyzed: 09/28/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 53-144)
NSW-7' 609470-01	9,900	3,900	88
ESW-7' 609470-02	2,000	<250	83
WSW-7' 609470-03	400	<250	81
SSW-7' 609470-04	890	<250	83
Base-8' 609470-05	2,100	<250	83
Method Blank 06-2027 MB	<50	<250	82

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	NSW-7	Client:	Filco Company
Date Received:	09/27/16	Project:	816 NE 57th St, F&BI 609470
Date Extracted:	09/28/16	Lab ID:	609470-01 1/250
Date Analyzed:	09/28/16	Data File:	092810.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	92 d	31	163
Benzo(a)anthracene-d12	171 d	24	168

Compounds:	Concentration mg/kg (ppm)
Naphthalene	33
2-Methylnaphthalene	100 ve
1-Methylnaphthalene	81 ve

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID: ESW-7	Client: Filco Company
Date Received: 09/27/16	Project: 816 NE 57th St, F&BI 609470
Date Extracted: 09/28/16	Lab ID: 609470-02 1/25
Date Analyzed: 09/28/16	Data File: 092812.D
Matrix: Soil	Instrument: GCMS6
Units: mg/kg (ppm) Dry Weight	Operator: ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	86	31	163
Benzo(a)anthracene-d12	110	24	168

Compounds:	Concentration mg/kg (ppm)
Naphthalene	1.3
2-Methylnaphthalene	2.6
1-Methylnaphthalene	4.5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	WSW-7	Client:	Filco Company
Date Received:	09/27/16	Project:	816 NE 57th St, F&BI 609470
Date Extracted:	09/28/16	Lab ID:	609470-03 1/25
Date Analyzed:	09/28/16	Data File:	092813.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	84	31	163
Benzo(a)anthracene-d12	104	24	168

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.28
2-Methylnaphthalene	1.3
1-Methylnaphthalene	1.9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	SSW-7'	Client:	Filco Company
Date Received:	09/27/16	Project:	816 NE 57th St, F&BI 609470
Date Extracted:	09/28/16	Lab ID:	609470-04 1/25
Date Analyzed:	09/28/16	Data File:	092814.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	85	31	163
Benzo(a)anthracene-d12	104	24	168

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.47
2-Methylnaphthalene	1.8
1-Methylnaphthalene	2.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID: Base-8'	Client: Filco Company
Date Received: 09/27/16	Project: 816 NE 57th St, F&BI 609470
Date Extracted: 09/28/16	Lab ID: 609470-05 1/25
Date Analyzed: 09/28/16	Data File: 092815.D
Matrix: Soil	Instrument: GCMS6
Units: mg/kg (ppm) Dry Weight	Operator: ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	83	31	163
Benzo(a)anthracene-d12	107	24	168

Compounds:	Concentration mg/kg (ppm)
Naphthalene	2.1
2-Methylnaphthalene	2.8
1-Methylnaphthalene	7.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	Filco Company
Date Received:	Not Applicable	Project:	816 NE 57th St, F&BI 609470
Date Extracted:	09/28/16	Lab ID:	06-2002 mb2 1/5
Date Analyzed:	09/28/16	Data File:	092807.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	84	31	163
Benzo(a)anthracene-d12	92	24	168

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.01
2-Methylnaphthalene	<0.01
1-Methylnaphthalene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/04/16

Date Received: 09/27/16

Project: 816 NE 57th St, F&BI 609470

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 609491-04 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	3	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	72	66-121
Toluene	mg/kg (ppm)	0.5	75	72-128
Ethylbenzene	mg/kg (ppm)	0.5	72	69-132
Xylenes	mg/kg (ppm)	1.5	75	69-131
Gasoline	mg/kg (ppm)	20	90	61-153

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/04/16

Date Received: 09/27/16

Project: 816 NE 57th St, F&BI 609470

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL
SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 609467-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	85	89	64-133	5

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	87	58-147

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/04/16

Date Received: 09/27/16

Project: 816 NE 57th St, F&BI 609470

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR PAHS BY EPA METHOD 8270D SIM

Laboratory Code: 609440-15 1/5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Acceptance Criteria
Naphthalene	mg/kg (ppm)	0.17	<0.01	93	50-150
2-Methylnaphthalene	mg/kg (ppm)	0.17	<0.01	93	50-150
1-Methylnaphthalene	mg/kg (ppm)	0.17	<0.01	93	50-150

Laboratory Code: Laboratory Control Sample 1/5

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	90	93	70-130	3
2-Methylnaphthalene	mg/kg (ppm)	0.17	89	93	70-130	4
1-Methylnaphthalene	mg/kg (ppm)	0.17	89	93	70-130	4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c - The presence of the analyte may be due to carryover from previous sample injections.
- cf - The sample was centrifuged prior to analysis.
- d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv - Insufficient sample volume was available to achieve normal reporting limits.
- f - The sample was laboratory filtered prior to analysis.
- fb - The analyte was detected in the method blank.
- fc - The compound is a common laboratory and field contaminant.
- hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs - Headspace was present in the container used for analysis.
- ht - The analysis was performed outside the method or client-specified holding time requirement.
- ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc - The presence of the analyte is likely due to laboratory contamination.
- L - The reported concentration was generated from a library search.
- nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo - The value reported fell outside the control limits established for this analyte.
- x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

4L 09/27/16 151/CO1

11

#0A

Email Address

• ELECTRONIC DATA REQUESTED

Page # of

TURNAROUND TIME

- Standard Turnaround
- RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

- **Dispose after 30 days**

- **Return samples**

- Will call with instructions

Samples Received at 4 °C

[illegible]

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 21, 2016

Richard Simpson, Project Manager
Filco Company, Inc.
PO Box 31228
Seattle, WA 98103

Dear Mr Simpson:

Included is the amended report for the 816 NE 57th St, F&BI 609549 project. There are 12 pages included in this report. The NWTPH-Dx results have been expressed as diesel and motor oil per your request.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Matthew Langston
Project Manager

Enclosures
FCI1006R.DOC

FRIEDMAN & BRUYA, INC.
ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

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www.friedmanandbruya.com

October 6, 2016

Jordin Buttenob, Project Manager
Filco Company, Inc.
PO Box 31228
Seattle, WA 98103

Dear Mr Buttenob:

Included are the results from the testing of material submitted on September 30, 2016 from the 816 NE 57th St, F&BI 609549 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Matthew Langston
Project Manager

Enclosures
FCI1006R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/16
Date Received: 09/30/16
Project: 816 NE 57th St, F&BI 609549
Date Extracted: 10/03/16
Date Analyzed: 10/03/16 and 10/04/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-132)
NSW2-8' 609549-01	<0.02	<0.02	<0.02	<0.06	22	93
ESW2-8' 609549-02	<0.02	<0.02	<0.02	<0.06	12	90
WSW2-8' 609549-03	<0.02	<0.02	<0.02	0.69	180	97
SSW2-8' 609549-04	<0.02	<0.02	<0.02	<0.06	<2	92
Base2-9' 609549-05	<0.02	<0.02	<0.02	0.63	82	93
Method Blank 06-2059 MB	<0.02	<0.02	<0.02	<0.06	<2	96

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/16
Date Received: 09/30/16
Project: 816 NE 57th St, F&BI 609549
Date Extracted: 09/30/16
Date Analyzed: 09/30/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 48-168)
NSW2-8' 609549-01	<50	<250	88
ESW2-8' 609549-02	<50	<250	88
WSW2-8' 609549-03	410	<250	97
SSW2-8' 609549-04	<50	<250	97
Base2-9' 609549-05	340	<250	88
Method Blank 06-2041 MB	<50	<250	99

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	NSW2-8	Client:	Filco Company
Date Received:	09/30/16	Project:	816 NE 57th St, F&BI 609549
Date Extracted:	10/03/16	Lab ID:	609549-01 1/25
Date Analyzed:	10/03/16	Data File:	100312.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	93	31	163
Benzo(a)anthracene-d12	99	24	168

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.05
2-Methylnaphthalene	<0.05
1-Methylnaphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	ESW2-8'	Client:	Filco Company
Date Received:	09/30/16	Project:	816 NE 57th St, F&BI 609549
Date Extracted:	10/03/16	Lab ID:	609549-02 1/25
Date Analyzed:	10/03/16	Data File:	100313.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	87	31	163
Benzo(a)anthracene-d12	99	24	168

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.05
2-Methylnaphthalene	<0.05
1-Methylnaphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	WSW2-8'	Client:	Filco Company
Date Received:	09/30/16	Project:	816 NE 57th St, F&BI 609549
Date Extracted:	10/03/16	Lab ID:	609549-03 1/25
Date Analyzed:	10/03/16	Data File:	100314.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	87	31	163
Benzo(a)anthracene-d12	100	24	168

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.05
2-Methylnaphthalene	0.31
1-Methylnaphthalene	0.61

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	SSW2-8'	Client:	Filco Company
Date Received:	09/30/16	Project:	816 NE 57th St, F&BI 609549
Date Extracted:	10/03/16	Lab ID:	609549-04 1/25
Date Analyzed:	10/03/16	Data File:	100315.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	85	31	163
Benzo(a)anthracene-d12	96	24	168

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.05
2-Methylnaphthalene	<0.05
1-Methylnaphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID: Base2-9'	Client: Filco Company
Date Received: 09/30/16	Project: 816 NE 57th St, F&BI 609549
Date Extracted: 10/03/16	Lab ID: 609549-05 1/25
Date Analyzed: 10/03/16	Data File: 100316.D
Matrix: Soil	Instrument: GCMS6
Units: mg/kg (ppm) Dry Weight	Operator: ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	85	31	163
Benzo(a)anthracene-d12	105	24	168

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.13
2-Methylnaphthalene	0.57
1-Methylnaphthalene	1.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	Filco Company
Date Received:	Not Applicable	Project:	816 NE 57th St, F&BI 609549
Date Extracted:	10/03/16	Lab ID:	06-2060 mb 1/5
Date Analyzed:	10/03/16	Data File:	100305.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	81	31	163
Benzo(a)anthracene-d12	93	24	168

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.01
2-Methylnaphthalene	<0.01
1-Methylnaphthalene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/16

Date Received: 09/30/16

Project: 816 NE 57th St, F&BI 609549

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING METHOD 8021B AND NWTPH-Gx

Laboratory Code: 610001-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	76	66-121
Toluene	mg/kg (ppm)	0.5	79	72-128
Ethylbenzene	mg/kg (ppm)	0.5	76	69-132
Xylenes	mg/kg (ppm)	1.5	79	69-131
Gasoline	mg/kg (ppm)	20	85	61-153

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/16

Date Received: 09/30/16

Project: 816 NE 57th St, F&BI 609549

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL
SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 609544-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	96	96	73-135	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	87	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/16

Date Received: 09/30/16

Project: 816 NE 57th St, F&BI 609549

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL
SAMPLES FOR PAHS BY EPA METHOD 8270D SIM**

Laboratory Code: 609541-06 1/5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Acceptance Criteria
Naphthalene	mg/kg (ppm)	0.17	<0.01	89	44-129
2-Methylnaphthalene	mg/kg (ppm)	0.17	<0.01	90	45-135
1-Methylnaphthalene	mg/kg (ppm)	0.17	<0.01	90	40-141

Laboratory Code: Laboratory Control Sample 1/5

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	90	90	58-121	0
2-Methylnaphthalene	mg/kg (ppm)	0.17	90	90	58-123	0
1-Methylnaphthalene	mg/kg (ppm)	0.17	90	90	60-124	0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c - The presence of the analyte may be due to carryover from previous sample injections.
- cf - The sample was centrifuged prior to analysis.
- d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv - Insufficient sample volume was available to achieve normal reporting limits.
- f - The sample was laboratory filtered prior to analysis.
- fb - The analyte was detected in the method blank.
- fc - The compound is a common laboratory and field contaminant.
- hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs - Headspace was present in the container used for analysis.
- ht - The analysis was performed outside the method or client-specified holding time requirement.
- ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc - The presence of the analyte is likely due to laboratory contamination.
- L - The reported concentration was generated from a library search.
- nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo - The value reported fell outside the control limits established for this analyte.
- x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



Jordin@FilcoEnviro.com



Street Address: 13190 Stone Avenue North, Seattle, WA 98133
Mailing Address: P.O. Box 31228, Seattle, WA 98103

ML 09-30-16

please fax results

#01

**Dispose after 30 days
Return samples
Will call with instructions**

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	Doris Bittenob	Filco	9/30/66	1430
Received by: 	Michael E. Schuler	FELM	↓	↓
Relinquished by:				
Received by:				

Fax (206) 283-5044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

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www.friedmanandbruya.com

October 26, 2016

Richard Simpson, Project Manager
Filco Company, Inc.
PO Box 31228
Seattle, WA 98103

Dear Mr Simpson:

Included is the amended report for the 816 NE 57th St, F&BI 610114 project. There are 3 pages included in this report. The sample ID has been changed per your request.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Matthew Langston
Project Manager

Enclosures
FCI1012R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

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October 12, 2016

Nate Montgomery, Project Manager
Filco Company, Inc.
PO Box 31228
Seattle, WA 98103

Dear Mr Montgomery:

Included are the results from the testing of material submitted on October 10, 2016 from the 816 NE 57th St, F&BI 610114 project. There are 3 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Matthew Langston
Project Manager

Enclosures
FCI1012R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/12/16
Date Received: 10/10/16
Project: 816 NE 57th St, F&BI 610114
Date Extracted: 10/10/16
Date Analyzed: 10/10/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-132)
WSW3-8' 610114-01	<0.02	<0.02	<0.02	<0.06	<2	91
Method Blank 06-2022 MB	<0.02	<0.02	<0.02	<0.06	<2	92

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/12/16

Date Received: 10/10/16

Project: 816 NE 57th St, F&BI 610114

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 610111-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	77	66-121
Toluene	mg/kg (ppm)	0.5	82	72-128
Ethylbenzene	mg/kg (ppm)	0.5	77	69-132
Xylenes	mg/kg (ppm)	1.5	81	69-131
Gasoline	mg/kg (ppm)	20	80	61-153

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c - The presence of the analyte may be due to carryover from previous sample injections.
- cf - The sample was centrifuged prior to analysis.
- d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv - Insufficient sample volume was available to achieve normal reporting limits.
- f - The sample was laboratory filtered prior to analysis.
- fb - The analyte was detected in the method blank.
- fc - The compound is a common laboratory and field contaminant.
- hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs - Headspace was present in the container used for analysis.
- ht - The analysis was performed outside the method or client-specified holding time requirement.
- ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc - The presence of the analyte is likely due to laboratory contamination.
- L - The reported concentration was generated from a library search.
- nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo - The value reported fell outside the control limits established for this analyte.
- x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

US,

ML 101 10/18

Samples Received at ____ °C

FORMS\COC\COC.DOC

APPENDIX B
SCALE TICKET SUMMARY
SOIL DISPOSAL DOCUMENTATION

Address 816 NE 57th St

Job Number 25568

Date	Facility	Ticket No.	Truck ID	Gross	Tare	Net Pounds	Net Tons
9/27/2016	Waste Mgt	127992	F32	53300	25200	28100	14.05
9/27/2016	Waste Mgt	128028	F32	51840	25200	26640	13.32
9/30/2016	Waste Mgt	128303	F32	53520	25200	28320	14.16
9/30/2016	Waste Mgt	128341	F32	50380	25200	25180	12.59
10/10/2016	Waste Mgt	128844	F16	40860	25100	15760	7.88
Total							62.00



Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 127992

Customer Name FILCO CD Filco Company, Inc
Ticket Date 09/27/2016
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 489694

Carrier SELF HAULER *
Vehicle# F32
Container
Driver TIM KAISER
Check#
Billing# 0000005
Grid

Volume

Time	Scale	Operator	Inbound	Gross	53200 lb
In 09/27/2016 11:36:58	SCALE 1	luerger		Tare	25200 lb
Out 09/27/2016 11:36:58		luerger		Net	28100 lb
				Tons	14.05

Comments FILCO-KF MORRIS 816 NE 57TH ST

Product	LD%	Qty	UDM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	14.05	Tons				KING
2 FEA-FUEL, ENV, ADMIN	100	14.05	Tons				
3 GONDOLA T-GONDOLA TON	100	14.05	Tons				

Total Tax
Total Ticket

Driver's Signature

[Signature]



Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 128028

Customer Name FILCO CD Filco Company, Inc
Ticket Date 09/27/2016
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 489694

Carrier SELF HAULER *
Vehicle# F32
Container
Driver TIM KAISER
Check#
Billing# 0000005
Grid

Volume

Time	Scale	Operator	Inbound	Gross	51840 lb
In 09/27/2016 15:17:26	SCALE 1	luerger		Tare	25200 lb
Out 09/27/2016 15:17:26		luerger		Net	26640 lb
				Tons	13.32

Comments FILCO-KF MORRIS 816 NE 57TH ST

Product	LD%	Qty	UDM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	13.32	Tons				KING
2 FEA-FUEL, ENV, ADMIN	100	13.32	Tons				
3 GONDOLA T-GONDOLA TON	100	13.32	Tons				

Total Tax
Total Ticket

Driver's Signature

[Signature]



Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 128303
Ph: 206 763 5025

Customer Name FILCO CO Filco Company, Inc
Ticket Date 09/30/2016
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 489694

Carrier SELF HAULER *
Vehicle# F32
Container
Driver TIM KAISER
Check#
Billing# 0000005
Grid

Volume

	Time	Scale	Operator	Inbound	Gross	
In	09/30/2016 11:00:18	SCALE 1	Imercen		Tare	53520 lb
Out	09/30/2016 11:08:18		Imercen		Net	25200 lb
					Tons	28320 lb
						14.16

Comments FILCO-KF MORRIS 816 NE 57TH ST

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	14.16	Tons				KING
2 FEA-FUEL, ENV, ADMIN	100	14.16	Tons				
3 GONDOLA T-GONDOLA TON	100	14.16	Tons				

Total Tax
Total Ticket

WM's Signature



Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 128341
Ph: 206 763 5025

Customer Name FILCO CO Filco Company, Inc
Ticket Date 09/30/2016
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 489694

Carrier SELF HAULER *
Vehicle# F32
Container
Driver ~~TIM KAISER~~ HENRY PROVENCE
Check#
Billing# 0000005
Grid

Volume

	Time	Scale	Operator	Inbound	Gross	
In	09/30/2016 15:28:34	SCALE 1	Imercen		Tare	50380 lb
Out	09/30/2016 15:28:34		Imercen		Net	25200 lb
					Tons	25180 lb
						12.59

Comments FILCO-KF MORRIS 816 NE 57TH ST

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	12.59	Tons				KING
2 FEA-FUEL, ENV, ADMIN	100	12.59	Tons				KING
3 GONDOLA T-GONDOLA TON	100	12.59	Tons				KING

Total Tax
Total Ticket

WM's Signature



Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original:
Ticket# 128844

Ph: 206 763 5025

Customer Name: FILCO CO Filco Company, Inc
Ticket Date: 10/10/2016
Payment Type: Credit Account
Manual Ticket#
Route: AK
Hauling Ticket#
Destination:
PO#: 489694

Carrier: SELF HAULER #
Vehicle#: F16
Container:
Driver: NATE MONTGOMERY
Check#
Billing#: 0000005
Grid

Volume

	Time	Scale	Operator	Inbound	Gross	
In	10/10/2016 12:03:17	SCALE 1	Imercer		Tare	40860 lb
Out	10/10/2016 12:03:17		Imercer		Net	25100 lb
					Tons	15760 lb
						7.88

Comments: FILCO - SF (MORRIS 816 NE 57TH ST)

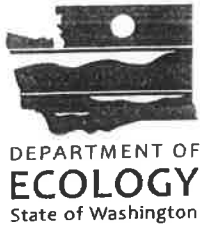
Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	7.88	Tons				KING
2 FEA-FUEL, ENV, ADMIN	100	7.88	Tons				
3 GONDOLA T-GONDOLA TON	100	7.88	Tons				

Total Tax
Total Ticket

Signature

N. M. D.

***APPENDIX C
ECOLOGY SITE ASSESSMENT FORMS,
TANK DECOMMISSIONING
DOCUMENTATION AND PERMITS***



UNDERGROUND STORAGE TANK (UST) 30-DAY NOTICE

(See back of form for instructions)

FOR OFFICE USE ONLY

Site ID # _____

FS ID # _____

RECEIVED

MAY 09 2016

Department of Ecology
Toxic Substances Program

Please ✓ the appropriate box:

☐ Intent
to Install

☒ Intent
to Close

HQ (360)407-7170 / Central (509)575-2490 / Eastern (509)329-3400 / Northwest (425)649-7000 / Toxics Cleanup Program (360)407-3300

SITE INFORMATION

OWNER INFORMATION

(this form will be returned to this address)

Tag or UBI number

Site Name
816 NE 57th Street

Site Physical Address
Seattle 98105

City
(206) 525-0758

Site Phone Number

Marybeth & Michael Morris

UST Owner/Operator

P O Box 31228

Mailing Address/PO Box
Seattle

98103

Zip Code

City
(206) 525-0758

Owner/Operator Phone Number

marybethm6@gmail.com

Owner/Operator Email Address

TANK INFORMATION

Tank ID	Substance Stored	Capacity	Date Project is Expected to Begin	Comments:
	Waste Oil	300 gal	June 7, 2016	

1) SERVICE PROVIDER INFORMATION - check the appropriate boxes

PLEASE NOTE: INDIVIDUALS PERFORMING UST SERVICES MUST BE ICC CERTIFIED OR HAVE
PASSED ANOTHER QUALIFYING EXAM APPROVED BY THE DEPARTMENT OF ECOLOGY.

☐ Installer ☒ Decommissioner ☐ Site Assessor

Service Provider Company Name
Filco Company Inc.

Certified Service Provider Name
Nathan Montgomery

ICC Certification #
5050940

Contact Person

Nathan Montgomery

Contact Phone Number

(206) 547-8347

Contact Email Address

nate@filcoenviro.com

2) SERVICE PROVIDER INFORMATION (REQUIRED IF USING MORE THAN ONE PROVIDER) - check the appropriate boxes

☐ Installer ☐ Decommissioner ☒ Site Assessor

Filco Company Inc.

Service Provider Company Name
Nathan Montgomery

Certified Service Provider Name
5050940

ICC Certification #

Nathan Montgom

Contact Person

(206) 547-8347

Contact Phone Number

nate@filcoenviro.com

Contact Email Address



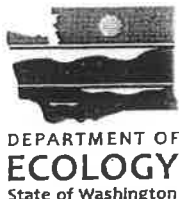
PERMANENT CLOSURE NOTICE FOR UNDERGROUND STORAGE TANKS

UST ID #: _____

County: _____

This notice certifies that permanent closure activities were performed and conducted in accordance with Chapter 173-360 WAC. Instructions are found on the back page.

I. UST FACILITY				II. OWNER/OPERATOR INFORMATION		
Facility Compliance Tag #:	N/A (residential)			Owner/Operator Name:	Michael & Marybeth Morris	
UST ID #:	N/A (residential)			Business Name:	N/A	
Site Name:	816 NE 57th Street			Address:	816 NE 57th Street	
Site Address:	816 NE 57th Street			City:	Seattle	State: WA Zip: 98105
City:	Seattle, WA 98105			Phone:	206 525 0758	
Phone:	206 525 0758			Email:	marybethm6@gmail.com	
III. CERTIFIED UST DECOMMISSIONER						
Company Name:	FILCO COMPANY			Service Provider Name:	Joshua Hilton	
Address:	PO Box 31228			Certification Type:	ICC	
City:	Seattle	State:	WA	Zip:	98103	Exp. Date: 2-12-2018
Provider Phone:	206.547.8347			Provider Email:	josh@filcoenviro.com	
Provider Signature:				Date:	6.22.16	
IV. TANK INFORMATION						
TANK ID	TANK CAPACITY	LAST SUBSTANCE STORED	removal	CLOSURE METHOD		CLOSURE DATE
				closed-in-place	change-in-service	
1	300	heating oil used oil	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.21.2016
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
V. REQUIRED SIGNATURE						
Signature acknowledges UST(s) comply with UST regulation WAC 173-360-380 Permanent Closure Requirements.						
11/14/16				Michael A. Morris		
Date	Signature of Tank Owner/Operator or Authorized Representative			Print or Type Name		



SITE CHECK/SITE ASSESSMENT CHECKLIST FOR UNDERGROUND STORAGE TANKS

UST ID #: _____

County: _____

This checklist certifies that site check or site assessment activities were performed in accordance with Chapter 173-360 WAC. Instructions are found on the last page.

I. UST FACILITY**II. OWNER/OPERATOR INFORMATION**

Facility Compliance Tag #: N/A (residential) Owner/Operator Name: Michael & Marybeth Morris
UST ID #: N/A Business Name: N/A
Site Name: 816 NE 57th Street Address: 816 NE 57th Street
Site Address: 816 NE 57th Street City: Seattle State: WA Zip: 98105
City: Seattle, WA 98105 Phone: 206 525 0758
Phone: 206 525 0758 Email: marybethm6@gmail.com

III. CERTIFIED SITE ASSESSOR

Service Provider Name: Jordin Buttenob Company Name: FILCO COMPANY
Cell Phone: 206 228 7393 Email: jordine@filcoenviro.com Address: P.O. Box 31228
Certification #: 8291441 Exp. Date: 11/21/2016 City: Seattle State: WA Zip: 98103

IV. TANK INFORMATION

TANK ID	TANK CAPACITY	LAST SUBSTANCE STORED	DATE SITE CHECK OR ASSESSMENT CONDUCTED
<u>1</u>	<u>300 gallons</u>	<u>heating oil, used oil</u>	<u>Sept. 7, 2016</u>

V. REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT (check one)

- ☒ Release investigation following permanent UST system closure (i.e. tank removal or closure-in-place).
- ☐ Release investigation following a failed tank and/or line tightness test.
- ☐ Release investigation following discovery of contaminated soil and/or groundwater.
- ☐ Release investigation directed by Ecology to determine if the UST system is the source of offsite impacts.
- ☐ UST system is undergoing a "change-in-service", which is changing from storing a regulated substance (e.g. gasoline) to storing a non-regulated substance (e.g. water).
- ☐ Directed by Ecology for UST system permanently closed or abandoned before 12/22/1988.
- ☐ Other (describe): _____

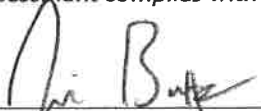
VI. CHECKLIST

The site assessor must check each of the following items and include it in the report.
Sections referenced below can be found in the Ecology publication
Guidance for Site Checks and Site Assessments for Underground Storage Tanks.

	YES	NO
1. The location of the UST site is shown on a vicinity map.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. A brief summary of information obtained during the site inspection is provided (Section 3.2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. A summary of UST system data is provided (Section 3.1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. The soils characteristics at the UST site are described. (Section 5.2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Is there any apparent groundwater in the tank excavation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. A brief description of the surrounding land use is provided. (Section 3.1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. The name and address of the laboratory used to perform analyses is provided. The methods used to collect and analyze the samples, including the number and types of samples collected, are also documented in the report. The data from the laboratory is appended to the report.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. The following items are provided in one or more sketches:		
• Location and ID number for all field samples collected	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• If applicable, groundwater samples are distinguished from soil samples	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Location of samples collected from stockpiled excavated soil	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Tank and piping locations and limits of excavation pit	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Adjacent structures and streets	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Approximate locations of any on-site and nearby utilities	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. If sampling procedures are different from those specified in the guidance, has justification for using these alternative sampling procedures been provided? (Section 3.4)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. A table is provided showing laboratory results for each sample collected including; sample ID number, constituents analyzed for and corresponding concentration, analytical method, and detection limit for that method. Any sample exceeding MTCA Method A cleanup standards are highlighted or bolded.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Any factors that may have compromised the quality of the data or validity of the results are described.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. The results of this site check/site assessment indicate that a confirmed release of a regulated substance has occurred. The requirements for reporting confirmed releases can be found in WAC 173-360-372.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

VII. REQUIRED SIGNATURES

Signature acknowledges the Site Check or Site Assessment complies with UST regulations WAC 173-360-360 through -395.

<p><u>Jordin Buttenob</u></p> <p>Print or Type Name</p>	<p><u></u></p> <p>Signature of Certified Site Assessor</p>	<p><u>6.22.2016</u></p> <p>Date</p>
---	---	-------------------------------------



My Professional Information:

Last, First MI: Battenob,Jordin C

Certified under this name: Jordin C Battenob

City, State Zip: Seattle, WA 98133

Certification Type(s): UST Decommissioning(expires 11/21/2016)

Washington State Site Assessment(expires 11/21/2016)



My Professional Information:

Last, First MI: Hilton,Joshua

Certified under this name: Joshua Hilton

City, State Zip: Monroe, WA 98272

Certification Type(s): UST Decommissioning(expires 02/12/2018)



Seattle Dept of Transportation
Street Use Permits, 23rd Floor
J0 Fifth Ave, Suite 2300
P O Box 34996
Seattle, WA 98124-4996

STREET USE PERMIT

Permit No.: 322839

☐ Inspector Copy

☒ Permittee Copy

☐ File Copy

Project ID:

IMPACT Project ID: na

Estimated Project Completion Date: 09/23/2016

LOCATION

Inspector: Daniel Conn

Inspection District: UNIVERSITY

Address: 816 NE 57TH ST
High Impact Area: N
Details: ON NE 57TH ST, BTWN 8TH AVE NE AND ROOSEVELT WAY NE

Application Date: 9/23/16 10:40 am
Issue Date: 9/23/16 10:45 am

PARTIES (* Primary Applicant)

Role	Name	Address	Phone	From	To
*Contractor's Agent	BUTTENOB, JORDIN	PO BOX 31228,,SEATTLE,WA,98103	(206)547-8347		
Permittee	FILCO CO. INC.	PO BOX 31228,,SEATTLE,WA,98103-	(206)547-8347		
24 Hour Contact	MONTGOMERY, NATHAN	PO BOX 31228,,SEATTLE,WA,98103	(206)547-8347		

PERMITTED USES

NE 57TH ST BETWEEN 8TH AVE NE AND ROOSEVELT WAY NE - NON-ARTERIAL

Use 44 Space A - Use of mobile crane, manlift, boom truck, pump truck, etc.

Condition Description

Start Date 09/26/2016 - 4x30 sidewalk and planting strip closure - pedestrians routed to adjacent sidewalk.

Start Date	Duration	End Date	Sq. Ft	Issue Date	Ext.	Side of Street	Location Type	Closure Type	Peak Work OK	Day or Time Rstrctns
09/26/2016	30	10/26/2016	152	09/23/2016	N	NORTH	SIDEWALK	CLOSED		

Use 44 Space B - Use of mobile crane, manlift, boom truck, pump truck, etc.

Condition Description

Start Date 09/26/2016 - 8x30 sidewalk and planting strip closure - pedestrians routed to adjacent sidewalk.

Start Date	Duration	End Date	Sq. Ft	Issue Date	Ext.	Side of Street	Location Type	Closure Type	Peak Work OK	Day or Time Rstrctns
09/26/2016	30	10/26/2016	240	09/23/2016	N	NORTH	PARKING LANE	CLOSED		

Use 47 Space A - Use of mobile crane, manlift, boom truck, pump truck, etc.

Condition Description

Start Date 09/26/2016 -

Start Date	Duration	End Date	Sq. Ft	Issue Date	Ext.	Side of Street	Location Type	Closure Type	Peak Work OK	Day or Time Rstrctns
09/26/2016	30	10/26/2016	152	09/23/2016	N	NORTH	SIDEWALK	INTERMITTENT CLOSURE		



STREET USE PERMIT

Permit No.: 322839

Project ID:

IMPACT Project ID: na

Estimated Project Completion Date: 09/23/2016

CONDITIONS OF USE

USE 44 :

Stand Man Lift, Crane, Boom Truck or Concrete Pumper in right-of-way while moving materials to private property per approved site plan.

USE 47 :

Cross curb and walk with heavy equipment during construction on private property. Sidewalk to be planked to prevent damage.

FEES PAID AT THE COUNTER OR ONLINE

Description	Date	Amount
ISSUANCE FEE - SIGNIFICANT	09/23/2016	\$305.00
Totals:		\$305.00

STREET USE INSPECTOR

Permittee LA

Director Per J. BAUER Daniel Conn (206) 386-4504

GENERAL REQUIREMENTS

- 1. Nature of permit.** This permit is issued according to Seattle Municipal Code ("SMC"), Chapter 15.04, for the use or occupancy of the public right of way in a manner consistent with the terms and conditions in this permit. This permit is wholly of a temporary nature, vests no permanent rights, and is revocable according to SMC Section 15.04.070.
 - 2. Acceptance of terms, conditions, and requirements.** The Permittee accepts the terms, conditions, and requirements of this permit and agrees to comply with them to the satisfaction of the Seattle Department of Transportation, Street Use Division ("Street Use"), or such other agency as may be designated by the City. The Permittee further agrees to comply with all applicable City ordinances, including but not limited to SMC Title 15, and all applicable state and federal laws.
 - 3. Copy of permit.** A copy of the issued permit and current approved plans shall be on site and available at all times.
 - 4. Expiration of permit.** This permit shall remain valid until revoked according to SMC Section 15.04.070; provided that the permit shall expire automatically if the authorized work does not begin within six months from the date the permit is issued. The Permittee is responsible for keeping the permit up to date including submitting updated plans for approval. The Permittee shall submit requests to update a permit in writing or in person, and all requests shall be made to Street Use in a timely manner; otherwise, the Permittee may lose access to requested schedule for continued work in the right of way.
 - 5. Superiority of Street Improvement Permits.** When a Street Improvement Permit exists, rights acquired under the Street Improvement Permit supersede those acquired under any other Street Use or Utility Permits. Work not approved under the Street Improvement Permit shall require separate Street Use or Utility Permits and Permittee shall obtain these permits in advance of work.
 - 6. Compliance with technical requirements and standards.** All work within the public right of way shall be performed and completed according to the current or subsequently-amended requirements in the following technical documents published by the City: Right-of-Way Improvements Manual; Street Tree Manual; Standard Specifications for Road, Bridge and Municipal Construction; Standard Plans for Municipal Construction; Street and Sidewalk Pavement Opening and Restoration Rule; and Traffic Control Manual for In-Street Work.
 - 7. Scope of work.** The Permittee shall stage equipment or materials and construct or install the improvements and infrastructure reflected in and in accordance with this permit and the City-approved construction plans. Any revisions, omissions, or additions to the scope of work shall be reviewed and approved by the City before implementation.
 - 8. Street Use notification.** Construction work may be completed in several phases: site preparation (installing traffic control, saw-cutting, etc.); ground breaking; restoration; and staging of equipment and materials. Before beginning any phase of work in the public right of way, the Permittee shall notify Street Use of each start date. The Permittee shall be responsible for notifying Street Use Job Start at (206-684-5270) or SDOTJobStart@seattle.gov a minimum of 2-business days before starting work and shall provide the following information:
 - Permit number;
 - Job-site address;
 - Start date: please specify if Job Start date is the same as the excavation or ground breaking date. If the dates are different, please provide both dates;
 - Brief work description; and
 - Job-site contact name and phone number.
- Failure to notify Street Use Job Start shall result in a \$300 penalty or other amounts according to SMC Section 15.04.074. For Street Improvement Permits and Utility Major Permits, a preconstruction meeting is required before starting construction, and the assigned inspector shall be notified a minimum of 2-business days before required inspections. Construction or utility activity occurring with, but not approved under, a Street Improvement or Utility Major Permit shall be permitted under separate Street Use permits. The Permittee shall apply for and



Project ID:

IMPACT Project ID: na

Estimated Project Completion Date: 09/23/2016

obtain these Street Use permits in advance of work. Failure to do so may subject the Permittee to penalties and additional permit review charges may apply.

9. **Underground and overhead utility notification.** The Permittee shall notify the following entities, as applicable, 2-business days in advance:
 - Utility Underground Locate Center (811 or 1-800-424-5555) before ground disturbance; and
 - Seattle City Light (206-684-4911) if working within 10 feet of high-voltage lines.
10. **Olympic Pipe Line Company notification.** When work in the right of way occurs within 100 feet of an Olympic Pipe Line Company ("OPLC") pipeline, the Permittee shall coordinate the work with OPLC, which may include submitting detailed construction plans to OPLC. The Permittee shall notify OPLC's field coordinator 10-business days in advance of the work (425-981-2506) and an OPLC representative may be required to be onsite during the work.
11. **Public notification.** The Permittee shall notify all potentially affected residents and businesses at least 10-business days before starting work in the public right of way, including alleys. Notification methods and timelines, including when ongoing notification is needed, must comply with Street Use standards and requirements.
 - If a tree has been approved for removal, the Permittee shall post a "tree removal" public-notice placard at least 10-business days before starting work.
 - If an SDOT public notice comment period is required prior to permitting, the Permittee shall conduct the public notice outreach prior to commencement of the SDOT public notice comment period.
12. **Alley notification.** Where this permit authorizes work in an alley, the Permittee shall notify all potentially impacted property owners and businesses prior to any activity occurring in the alley, including and especially those property owners and businesses with tenants using the alley to access parking or for building ingress/egress or deliveries. The Permittee shall schedule work around waste-management-collection days. If this is not possible, the Permittee shall coordinate with waste management services to either provide intermittent alley access during waste pickup or to temporarily establish waste pickup at an alternate location. If an alley is to remain open during permitted work, a minimum 11-foot clear width is required for vehicular access. If an alley is closed to through traffic, the Permittee shall notify the nearest Seattle Fire Department fire station and the Seattle Police Department at the non-emergency numbers prior to commencing work.
13. **Coordination of work.** In performing work authorized by this permit, the Permittee shall coordinate with other contractors working in the public right of way to minimize impact to the public. Documented coordination agreements may be required prior to permit issuance and additional notification to the public may be required.
14. **Hours of work.** Work performed in the public right of way shall occur only during hours authorized under all applicable codes, regulations, rules, and permits.
15. **Off-hours work.** Work outside of normal working hours, 8:00 AM - 5:00 PM Monday through Friday, is considered "off-hours work" and requires a minimum of 3-business days advanced notice to the Street Use Inspection Supervisor before the off-hours work commences. Off-hours work may also require a separately-approved traffic control plan. A minimum of two hours of inspection time shall be charged for off-hours inspections at the premium rate. A Stop Work order or Citation may be issued for failing to notify Street Use at least 3-business days before the off-hours work.
16. **Inspection fees.** The Permittee shall pay for City inspections of work authorized under this permit according to the current fee schedule established by SMC Section 15.04.074 and all other associated costs.
17. **Billing.** All fees and costs billed according to this permit shall be paid to the City of Seattle within 30-calendar days from the invoice date. Past due invoices may be subject to interest charges and may be sent to collections.
18. **Deposits, charges, and future billings.** The Permittee, also identified as the "Financially Responsible Party" on Street Use permit applications, is responsible and liable for all permit-related charges. If a deposit was made for estimated future Street Use services, any unused portion of the deposit shall be refunded to the Permittee. Any charges in excess of the deposit shall be billed to the Permittee on a monthly basis.
19. **Corrective work.** The Permittee is responsible for any additional costs incurred by the City resulting from temporary or corrective measures required to bring the work area into compliance with standards that apply, including but not limited to: temporary traffic control, requirements for temporary structures, temporary stabilization, and temporary restoration when the Permittee is not on site.
20. **Indemnification.** The Permittee agrees to defend, indemnify, and hold harmless the City of Seattle, its officials, officers, employees, and agents; against any liability, claims, causes of action, judgments, or expenses, including reasonable attorney fees; resulting directly or indirectly from any act or omission of the Permittee, its contractors, subcontractors, anyone directly or indirectly employed by them, and anyone for whose acts or omissions they may be liable; arising out of the Permittee's use or occupancy of the public right of way; and all loss by the failure of the Permittee to fully or adequately perform, in any respect, all authorizations or obligations under this Permit.
21. **Insurance.** The Permittee shall obtain and maintain in full force and effect, at its own expense, public liability insurance in an amount sufficient to protect the City from all potential claims and risks of loss from perils in connection with any activity that may arise from or be related to the Permittee's activity upon or the use or occupation of the public right of way allowed by the permit; and all claims and risks in connection with activities performed by the Permittee by virtue of the permission granted by the permit. The Permittee shall meet all other insurance requirements in SMC 15.04.045.

EXISTING IMPROVEMENTS

1. **Costs of damage to City property and improvements.** The Permittee shall be responsible for the costs of repairing any damage to City property or improvements, including street trees, resulting from work performed by or on behalf of the Permittee within the public right of way. Damage to street trees is assessed on the value of the tree according to SMC subsection 15.90.018.B.
2. **Utility protection.** The Permittee shall be responsible for checking locations and providing adequate protection for all utilities in the work area.



Project ID:

IMPACT Project ID: na

Estimated Project Completion Date: 09/23/2016

3. **Utility relocation.** The Permittee shall be responsible for notifying affected utilities and requesting any necessary relocation.
4. **Survey monuments.** Before removing, destroying, disturbing, or covering a survey monument such that the survey point is no longer visible or readily accessible, the Permittee shall obtain a permit from the Department of Natural Resources according to Washington Administrative Code, Chapter 332-120.
5. **Protecting, removing, and relocating existing improvements.** The Permittee, at their own cost and expense, shall be responsible for coordinating the removal and relocation of existing improvements within the public right of way that their construction or permitted project may interfere with. These existing improvements include, but are not limited to trees, bike racks, newsstands, bike-share stations, signs, benches, artwork, and waste receptacles.
 - For bike-share stations, the Permittee shall contact the bike-share operator at least 30-calendar days before starting work in order to coordinate the removal and relocation of the bike-share station.
 - For all other existing improvements, the Permittee shall contact the improvement owner at least 10-business days before starting work to coordinate the temporary removal of the improvement.
 - For newsstands, the Permittee shall coordinate temporary relocation during the construction period by posting notice of upcoming construction projects at SeattleNewsstands.org at least 10-business days before starting work.

The Permittee shall be responsible for reinstalling the improvements or coordinating the reinstallation in their original location or at a reasonable alternative location approved by the existing improvement owner and meeting all applicable City requirements. The Permittee is further responsible for protecting all trees within the construction project area and shall contact Urban Forestry to disclose and describe any construction impacts to trees.

Failure to contact the improvement owners or Urban Forestry is cause for Street Use to revoke this permit.
6. **Monorail system proximity requirements.** The Permittee shall be responsible for coordinating with the Seattle Center when any work, deliveries, or loading/unloading will occur within 14 feet of a Monorail structure or 20 feet of a Monorail foundation or below-ground installation. The Permittee shall contact the Seattle Center at 206-905-2601 at least 10-business days before starting construction. Failure to do so is cause for permit revocation.
7. **Monorail system proximity guidelines.** Below grade: The restricted digging area includes a 45-degree cone extending outward and downward from the ground level of all monorail piers. Nearby excavations shall be monitored to assure footing stability. At- or above-grade: The piers above ground level cannot be moved, nor can any item like lighting or signage be attached to the piers without prior written consent from the Seattle Center Director. Piers shall not be painted. Landscaping shall not occur adjacent to piers or within 10 feet of a Monorail structure without prior written consent of the Seattle Center Director. Any construction activity in the area of the power rails shall follow OSHA guidelines for working around high voltage. Construction equipment shall be located and operated in awareness of and taking account of beam height and the train's 14-foot-operational envelope from each side of the beam. Contractors shall string warning lines from pier to pier under the beams as a guide. Spotters shall be employed when any construction activity occurs within 25 feet of the beams.

ENVIRONMENTAL PROTECTION

1. **Best management practices required.** The Permittee shall be responsible for protecting the public place, including but not limited to protecting existing street trees and green stormwater infrastructure, and controlling surface runoff, erosion and sediment at the construction site, as required by: the Stormwater Code, (SMC Title 22, Subtitle VIII); the Street and Sidewalk Use Code, (SMC Title 15); the Standard Specifications for Road, Bridge, and Municipal Construction; and Department of Planning and Development Director's Rule 21-2015/Seattle Public Utilities DWW 200, or successor rules or provisions. The site and the surrounding area shall generally be kept clean and free of construction debris or other material, including but not limited to mud, dust, rock, asphalt, and concrete. Waste materials shall be collected and disposed of at an appropriate disposal site. These materials shall be prevented from entering any part of the public sewer and storm drain system, and any surface waters.

TRAFFIC CONTROL REQUIREMENTS

1. **Compliance with the Traffic Control Manual for In-Street Work.** In order to provide safe and effective work areas and to ward, control, protect, and expedite vehicular and pedestrian traffic; signage for all construction within the public right of way shall comply with the City of Seattle Traffic Control Manual for In-Street Work, as amended. When required, the conditions on the traffic control plan shall supersede any conflicting provisions or requirements in the City of Seattle Traffic Control Manual for In-Street Work. A copy of the current City of Seattle Traffic Control Manual for In-Street Work and the approved traffic control plan shall be on site at all times.
2. **Lanes to remain open during peak hours.** Traffic lanes shall not be closed during the following peak hours: 6:00 AM-9:00 AM and 3:00 PM-7:00 PM in the Central Business District; and 7:00 AM-9:00 AM and 4:00 PM-6:00 PM for arterials elsewhere in the City, unless specifically noted on the approved traffic control plan.
3. **Maintain access.** Access to adjoining properties and businesses shall be maintained or accommodated during construction. Pedestrian access around construction sites shall be implemented and maintained per SDOT Director's Rule 10-2015, or successor rule.
4. **Width of temporary traffic lanes.** Temporary traffic lanes created during the permitted work shall be a minimum of 11 feet in width unless otherwise approved on the traffic control plan.
5. **Working within restricted curb spaces.** When the project impacts a restricted curb space, such as meters, pay stations, specific use and load zones; the Permittee shall obtain permission from SDOT Traffic Operations and reserve the spaces with the Traffic Operations Permit Counter (206-684-5086) before starting work.
6. **Temporary No Parking signs and easels.** In areas without parking pay stations or parking meters, or when Traffic Operations allows reserved



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parking spaces to be controlled with Temporary No Parking signs, establishing a Temporary No Parking Zone requires placing type R7-T38 (T-38) or R7-T39 (T-39) easels and completing an online verification form in conformance with the Traffic Control Manual for In-Street Work. In high impact areas, the Central Business District, and in areas where construction projects are densely clustered (such as in City-designated "Construction Hubs"), additional requirements for establishing a Temporary No Parking Zone may apply.

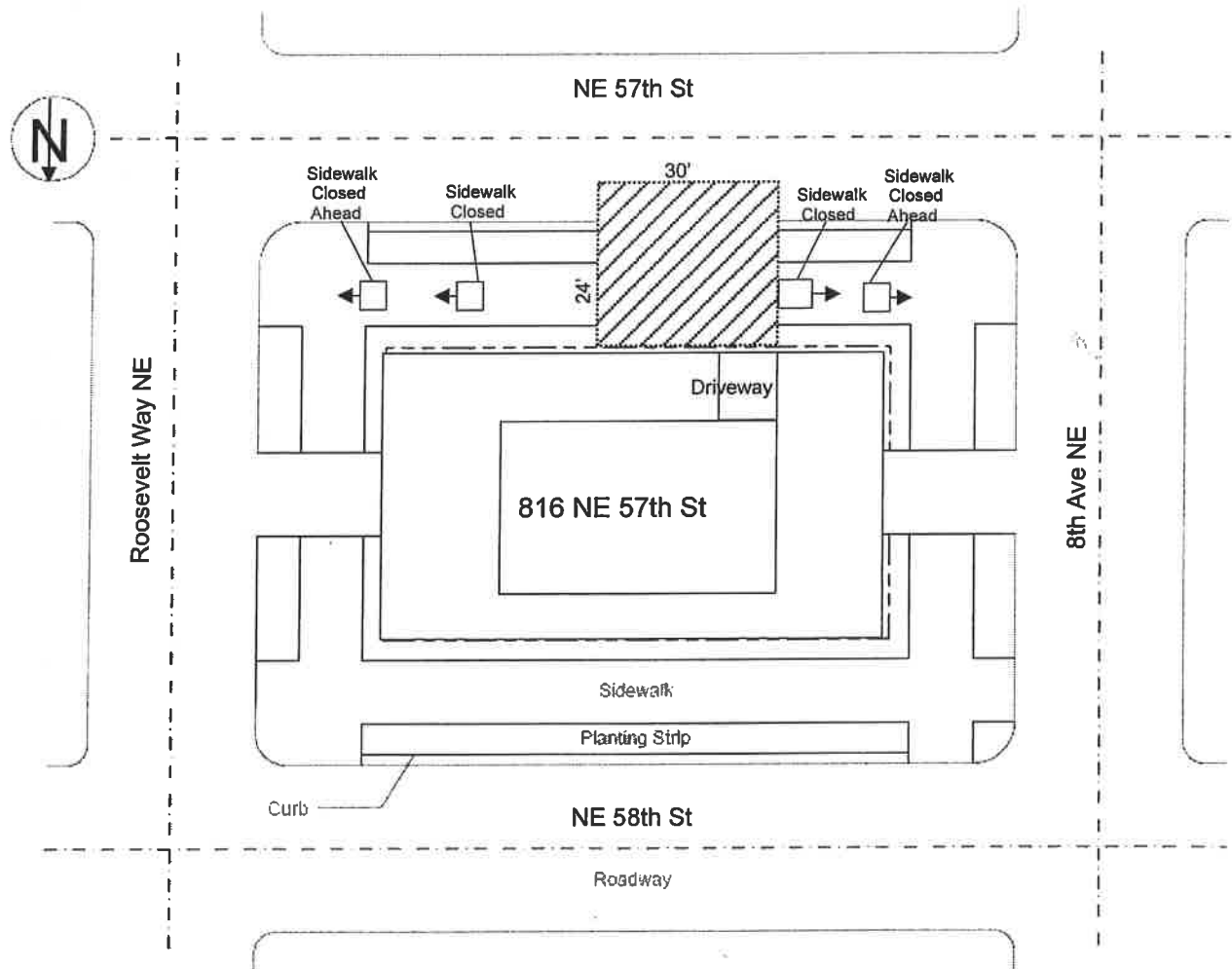
7. **Nighttime illumination.** Four or more Type B warning lights of sufficient brilliance to be seen from 500 feet shall be maintained at all times during the hours of darkness at the points of obstruction or excavation of any right of way.
8. **Work in alleys.** For work occurring in alleys that impedes vehicular access, including but not limited to egress, ingress, or through travel; "Street Closed" signs shall be placed at each end of the alley. Property owners adjacent to the alley shall be contacted, and their access concerns shall be addressed and mitigated if possible. This may require alternative work scheduling in the case of Solid Waste collection days and hours.



Seattle Department of Transportation
Street Use
700 Fifth Avenue, Suite 3700
PO Box 34996
Seattle, Washington 98124-4996
SITE PLAN TEMPLATE

PERMIT NUMBER

322839



Please clearly indicate the following:

1. Street Names
2. North Arrow
3. Exact location of work
4. Work zone (show dimensions)



FILE COPY

Tues 6/21/16 @ 11AM



Your
Seattle
Fire Department

APPLICATION FOR TEMPORARY PERMIT

Code 7908

Commercial Tank Removal/Decommissioning

Permit Fee: \$218.00

Date Issued: 6/21/16

Tank(s) must be removed from site on the same day as permit is issued!

TO BE COMPLETED BY PERMIT APPLICANT

FIRM NAME	Filco Company, Inc.		
MAILING ADDRESS	PO Box 31228	SUITE	
CITY	Seattle	STATE	WA ZIP 98103
JOB SITE ADDRESS	816 NE 57th St		
CONTACT PERSON	Josh Hilton	PHONE NUMBER (206) 423-1092	
Number of Tank(s):	one	Tank Size(s):	300
Product(s) Previously Contained:	Heating Oil		
<input type="checkbox"/>	Aboveground tank		
<input checked="" type="checkbox"/>	Underground tank		
<input checked="" type="checkbox"/>	Removal (Marine Chemist inspection and certificate required for all tanks regardless of size or contents)		
<input type="checkbox"/>	Abandonment-in-Place (Marine Chemist certificate required for tanks previously containing Class I flammable liquids and/or unknowns)		
Hot work being conducted:	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes (If yes, a separate hot work permit is required)	

Permit applications may be submitted in person weekdays from 8:00 a.m. to 5:00 p.m., or mailed to:

Seattle Fire Department
Fire Marshal's Office - Permits
220 Third Ave S, 2nd Floor
Seattle, WA 98104-2608

To pay with a Visa or Master Card: Fax or email this application
THEN CALL US TO CONFIRM RECEIPT AND MAKE PAYMENT
Tel: (206) 386-1450 / Fax: (206) 386-1348
E-mail: permits@seattle.gov

Call 386-1450, at least 24 hours prior to needed inspection time to arrange for an appointment.

TANKS MAY BE REMOVED/DECOMMISSIONED ONLY AFTER FIRE DEPARTMENT INSPECTION

NO HOT WORK IS ALLOWED ON A TANK SYSTEM PRIOR TO ISSUANCE OF THIS FIRE DEPARTMENT PERMIT!

Permission is hereby granted to remove or decommission the tank(s) identified in this permit in accordance with the attached conditions, all noted special conditions, and all applicable provisions of the Seattle Fire Code, federal, state and local regulations. **THIS PERMIT IS NULL AND VOID IF PERMIT CONDITIONS ARE NOT ATTACHED**

Special permit conditions: Tank removal/decommissioning must be performed, or directly supervised, by an ICC certified individual (WAC 173-360-800)

FMO USE:

Check No.: 720806/16/16
Receipt No.: 6-262370
Application ID#: 105522

APPROVED BY:

Inspector: J. WILLIAMS
Name of Marine Chemist: J. TRETEVIK
Date: 6/21/16
SPD ID# 1481
Certificate # 725
008504

COMMERCIAL TANK REMOVAL/DECOMMISSIONING PERMIT CONDITIONS

1. Two (2) portable fire extinguishers each having a minimum rating of 40 BC shall be on site within 50 feet of the operation. Fire extinguishers shall be inspected, approved and certified annually.
2. Rope or ribbon barricades located at least 10 feet from the tank shall surround every outdoor storage tank removal or decommissioning operation or the operation shall be enclosed in a fenced yard.
3. "No Smoking" signs shall be posted in readily visible locations.
4. No hot work is allowed on a tank system prior to issuance of this permit and the tank is certified "Safe for Hot Work" by a Certified Marine Chemist. Hot work means any activities involving riveting, welding, burning, brazing, soldering, heating, chopping, grinding, ripping, drilling, cutting with a chop saw or "Sawzall", abrasive blasting, use of powder-actuated tools or similar spark-producing operations, crushing or mechanically shearing to facilitate opening for cleaning, disposal, scrapping for recycling purposes.
5. A separate temporary Seattle Fire Department permit (Code 4913) or a validation number assigned in conjunction with an annual hot work permit (Code 4911 or 4912) is required prior to any hot work operations.
6. Permits may cover multiple tanks located at the same address. If additional tanks are to be removed or abandoned at later dates, separate permits shall be obtained. Each address location requires a separate permit application regardless of whether multiple address locations are physically next to one another.
7. Additional fees will be charged if inspectors are required to work other than normal business hours. (Normal business hours are Monday through Friday, 8:00 a.m. to 4:30 p.m.)
8. No excavation of an underground tank is permitted prior to inspection by the Seattle Fire Marshal's Office.
Exception: Removal of the top layer of asphalt or concrete only with no removal of dirt, pea gravel or soil over the underground storage tank. Further excavation may be allowed by a Seattle Fire Department Special Hazards Unit Inspector prior to the initial inspection depending on conditions and if the tank has been inerted by a Marine Chemist who is present on site. The name of the inspector and the time permission was given shall be made available at time of inspection.
9. Prior to inspection, to ensure tanks and connected piping are completely free of all flammable or combustible liquids, a receipt or certificate must be on site indicating the tanks have been pumped and rinsed by an approved company. Product and rinse water must be disposed of in an approved manner.
10. For tanks being decommissioned in place that previously contained Class I liquids, a Certified Marine Chemist certificate must be issued and available on site for inspection certifying that the tank has been properly inerted prior to filling.
11. No tank shall be filled prior to an inspection by the Seattle Fire Marshal's Office.
12. Tanks being decommissioned in place must be filled with a lean concrete mixture. Filling with foam is prohibited.
13. A Marine Chemist's certificate verifying the tank has been properly inerted or is otherwise certified "Safe for Hot Work" shall be issued and available on site for inspection for each underground and aboveground tank being removed regardless of the product previously contained.
14. If tanks are being removed the tanks' atmosphere must be inert using one of the following approved methods:
 - Dry ice (pellets or chunks of solid CO₂). Minimum 40 lbs per 1000 gallons of tank capacity is recommended.
 - Compressed CO₂ gas in cylinders (Note: This method may only be performed by a Certified Marine Chemist).
 - Purging with air (gas-freeing) using Venturi tube apparatus, with proper bonding and grounding and after the tank has been pumped and rinsed by an approved company.
15. A maximum reading of less than 6% of oxygen must be obtained prior to the removal of the tanks if CO₂ or another inert gas, as approved by the Marine Chemist, is used to inert the tank or, a reading of 0% LEL must be obtained prior to removal of the tank if the air-purging (Venturi air moving devices) method is used.
16. All local, state and federal regulations for confined space entry shall be complied with prior to entering an underground storage tank.
17. Tanks with baffles to prevent movement of liquid must be certified gas-freed or inerted by a Certified Marine Chemist or a Petroleum Industry Safety Engineer regularly engaged in that business prior to removal.
18. Tanks being removed must be removed from the site and relocated to a remote, approved facility on the same day that the permit is issued.
19. During the hot work operations, digging, excavating, hauling or transport of petroleum storage tanks that have not been cleaned and gas-freed, tanks must be inerted to less than 6% oxygen. All openings are to be cap closed and secured except for one 1/8" hole drilled through a cap. These tanks are to be sprayed painted with "INERTED, DO NOT ENTER" or "INERTED WITH CO₂, NOT SAFE FOR WORKERS".

SOUND TESTING, INC.

206-932-0206

24 HOUR SERVICE

MARINE CHEMIST CERTIFICATE

SERIAL NO. P 008504

Page 1 of 1

6/21/16

Date

Survey Requested by

UST

Vessel Owner or Agent

UST

816 NE 57TH ST

Specific Location of Vessel

Vessel

(HEATING OIL) X3

Type of Vessel

Visual, O₂, LEL, CO, H₂S, THC

1000

Time Survey Completed

Last Three (3) Loadings

300 gal. UST

SAFE FOR EXCAVATION

SAFE FOR TRANSPORT

O₂ = 7% LEL = 0%CO = H₂S < 1 ppm

THC = 400 ppm ± 1 ppm

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 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 NFPA 306).

ATMOSPHERE SAFE FOR WORKERS: In the compartment or space so designated (a) the oxygen content of the atmosphere is 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 is not 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 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 for 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 is limited or restricted.

NOT SAFE FOR HOT WORK: In the compartment or space so designated, hot work 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.

Signed

Name

Company

FILCO

Date

6/21/16

Signed

Marine Chemist

*725

Certificate No.

SOUND TESTING, INC.

206-932-0206

24 HOUR SERVICE

Printed in U.S.A.

POSTING COPY

NOTICE: Shippers of hazardous materials must enter their emergency response telephone number under "Emergency Response Phone Number."

Shipper No. _____

Emergency Response Phone Number: _____
 _____ (Name of Carrier)

Carrier No. _____

TO: Consignee <u>Mat Vico</u>		FROM: Shipper <u>Filco</u>	
Street <u>1516 S Graham St</u>		Street <u>816 N 57th St</u>	
Destination	Zip Code	Origin	Zip Code
Route:	Vehicle No.	SCAC	Emergency Response Phone Number

[illegible]

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading state whether weight is "carrier's or shipper's weight".

REMIT
C.O.D. TO:
ADDRESS

C.O.D.	
Amt. \$	

C.O.D. FEE:
PREPAID ☐
COLLECT ☐ \$

TOTAL	
CHARGES: \$	

Note-Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

\$ _____ per _____

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement.

The carrier shall not make delivery of this shipment without payment of freight and all other charges.

(Signature of Consignor)

FREIGHT CHARGES
Check Appropriate Box:

☐ Freight prepaid
☐ Collect

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classifications in effect on the date hereof, if this is a rail or a rail-water shipment or (2) in the applicable motor carrier classification or tariff, if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Mark with "RG" if appropriate to designate Hazardous Materials as defined in the U.S. Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading per 172.201(a)(1)(iii) of Title 49 Code of Federal Regulations. Also when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

The format and content of hazardous item list is the responsibility of individual company interpretation of requirements as described in 49 Code of Federal Regulations 172. Support U-Shipping Papers. Such description consists of the following per Sections 172.201 (Hazardous Material Table) and Sections 172.202 and 172.203: Proper shipping name, hazardous class, UN identification number, packing group, and subsidiary class(es).

Note: Liability limitation for loss or damage in this shipment may be applicable. See 49 United States Code, Sections 14706(c)(1)(A) and (B).

SHIPPER
PER

CARRIER	Albion
PER	per 2.00

3

This is to certify that the above named materials are properly classified, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the U.S. Department of Transportation.

Carrier acknowledges receipt of packages and any required placards. Carrier certifies emergency response information was made available and/or carrier has the U.S. Department of Transportation emergency response guidebook or equivalent documentation in the vehicle. Property described above is received in good order, except as noted.