

APPENDIX D



SPECTRA Laboratories

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03/24/2014

George Webster P.E.
PO Box 1583
Sumner, WA 98390

P.O.#: pd cc 165727/ck
Project: MLK Shell
Client ID: 1
Sample Matrix: Solid
Date Sampled: 03/15/2014
Date Received: 03/20/2014
Spectra Project: 2014030566
Spectra Number: 1
Rush

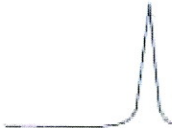
<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
HCID- Gasoline	<20	mg/Kg	NWTPH-HCID
HCID-Diesel	<50	mg/Kg	NWTPH-HCID
HCID-Oil	Present	mg/Kg	NWTPH-HCID

<u>Surrogate</u>	<u>Recovery</u>	<u>Method</u>
4-Bromofluorobenzene	42	NWTPH-HCID
p-Terphenyl	69	NWTPH-HCID

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Steve Hibbs, Laboratory Manager
a6/jjb



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03/24/2014

George Webster P.E.
PO Box 1583
Sumner, WA 98390

P.O.#: pd cc 165727/ck
Project: MLK Shell
Client ID: 2
Sample Matrix: Solid
Date Sampled: 03/15/2014
Date Received: 03/20/2014
Spectra Project: 2014030566
Spectra Number: 2
Rush

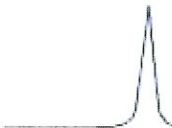
<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
HCID- Gasoline	<20	mg/Kg	NWTPH-HCID
HCID-Diesel	<100	mg/Kg	NWTPH-HCID
HCID-Oil	<50	mg/Kg	NWTPH-HCID

<u>Surrogate</u>	<u>Recovery</u>	<u>Method</u>
4-Bromofluorobenzene	34	NWTPH-HCID
p-Terphenyl	71	NWTPH-HCID

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03/24/2014

George Webster P.E.
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Sumner, WA 98390

P.O.#: pd cc 165727/ck
Project: MLK Shell
Client ID: 2A
Sample Matrix: Solid
Date Sampled: 03/15/2014
Date Received: 03/20/2014
Spectra Project: 2014030566
Spectra Number: 3
Rush

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
Gasoline	<5	mg/Kg	NWTPH-G
Benzene	<0.025	mg/Kg	SW846 8260C
Ethylbenzene	<0.025	mg/Kg	SW846 8260C
Methyl-tert-Butyl Ether	<0.025	mg/Kg	SW846 8260C
Toluene	<0.025	mg/Kg	SW846 8260C
Total Xylenes	<0.05	mg/Kg	SW846 8260C

<u>Surrogate</u>	<u>Recovery</u>	<u>Method</u>
Toluene-d8	106	NWTPH-G
4-Bromofluorobenzene	95	NWTPH-G

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P.O.#: pd cc 165727/ck
Project: MLK Shell
Client ID: 3
Sample Matrix: Solid
Date Sampled: 03/15/2014
Date Received: 03/20/2014
Spectra Project: 2014030566
Spectra Number: 4
Rush

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
Gasoline	<5	mg/Kg	NWTPH-G
Benzene	<0.025	mg/Kg	SW846 8260C
Ethylbenzene	<0.025	mg/Kg	SW846 8260C
Methyl-tert-Butyl Ether	<0.025	mg/Kg	SW846 8260C
Toluene	<0.025	mg/Kg	SW846 8260C
Total Xylenes	<0.05	mg/Kg	SW846 8260C

<u>Surrogate</u>	<u>Recovery</u>	<u>Method</u>
4-Bromofluorobenzene	94	NWTPH-G
Toluene-d8	106	NWTPH-G

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03/24/2014

George Webster P.E.
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P.O.#: pd cc 165727/ck
Project: MLK Shell
Client ID: 4
Sample Matrix: Solid
Date Sampled: 03/15/2014
Date Received: 03/20/2014
Spectra Project: 2014030566
Spectra Number: 5
Rush

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
Gasoline	<5	mg/Kg	NWTPH-G
Benzene	<0.025	mg/Kg	SW846 8260C
Ethylbenzene	<0.025	mg/Kg	SW846 8260C
Methyl-tert-Butyl Ether	<0.025	mg/Kg	SW846 8260C
Toluene	<0.025	mg/Kg	SW846 8260C
Total Xylenes	<0.05	mg/Kg	SW846 8260C

<u>Surrogate</u>	<u>Recovery</u>	<u>Method</u>
4-Bromofluorobenzene	90	NWTPH-G
Toluene-d8	107	NWTPH-G

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03/24/2014

George Webster P.E.
PO Box 1583
Sumner, WA 98390

P.O.#: pd cc 165727/ck
Project: MLK Shell
Client ID: 5
Sample Matrix: Solid
Date Sampled: 03/15/2014
Date Received: 03/20/2014
Spectra Project: 2014030566
Spectra Number: 6
Rush

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
Gasoline	<5	mg/Kg	NWTPH-G
Benzene	<0.025	mg/Kg	SW846 8260C
Ethylbenzene	<0.025	mg/Kg	SW846 8260C
Methyl-tert-Butyl Ether	<0.025	mg/Kg	SW846 8260C
Toluene	<0.025	mg/Kg	SW846 8260C
Total Xylenes	<0.05	mg/Kg	SW846 8260C

<u>Surrogate</u>	<u>Recovery</u>	<u>Method</u>
4-Bromofluorobenzene	104	NWTPH-G
Toluene-d8	109	NWTPH-G

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March 21, 2014

George Webster P.E.
P.O. Box 1583
Sumner, WA 98390

Sample Matrix: Water
EPA Method: 624/8260C
Spectra Project: 2014030566
Date Analyzed: 3/20/2014
Units: ug/L
Applies to Spectra #'s: #1-4
Spiked Sample 2014030532-4

GCMS VOLATILE ORGANIC ANALYSIS

Matrix Spike/ Matrix Spike Duplicate Results

COMPOUND	SAMPLE RESULT	SPIKE AMOUNT	MS RESULT	MS %REC	MSD RESULT	MSD %REC	RPD
1,1-Dichloroethene	<1	10.00	12.65	127	13.25	133	5
Benzene	<1	10.00	10.55	106	11.24	112	6
Trichloroethene	<1	10.00	10.17	102	10.36	104	2
Toluene	<1	10.00	11.66	117	11.87	119	2
Chlorobenzene	<1	10.00	11.41	114	11.52	115	1
(Results after dilution)							

Surrogates	MS	MSD	MB	Method Blank	ug/L
Dibromofluoromethane	138	139	103	Benzene	<1
1,2-Dichloroethane-d4	168	168	105	Toluene	<1
Toluene-d8	106	104	97	Ethylbenzene	<1
4-Bromofluorobenzene	92	96	92	Total Xylenes	<2
				MTBE	<1



Steven G. Hibbs
Laboratory Manager

CHAIN of CUSTODY

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RUSH ☒

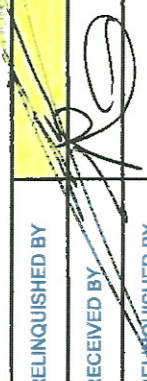
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2014-030566

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CLIENT: George Webster P.E.		ADDRESS: POB 1583 Summer, WA. 98390		ADDRESS CHANGE ☐	
PROJECT: MLK Shell					
CONTACT: Kevin Wilkerson					
PHONE: 253-241-6213 FAX: 360-872-0698					
e-MAIL: nesinc@hotmail.com					
PURCHASE ORDER #					
SAMPLE ID	DATE SAMPLED	TIME SAMPLED	MATRIX	NUMBER OF CONTAINERS	
1	03/15/14	10:00	Soil	1	
2	"	10:20	Soil	1	
3 2A	"	11:00	Soil	1	
4 3	"	11:20	Soil	1	
5 4	"	11:35	Soil	1	
6 5	"	11:50	Soil	1	
7					
8					
9					
0					

HYDROCARBONS		ORGANICS		METALS		OTHER	
NWTPH-HCID		8260/624 VOA		TOTAL METALS RCRA 8		PH 9040/9045	
BTEX		8280 CHLOR SOLVENTS		TOTAL METALS (SPECIFY)		TX/TOX 9076	
BTEX/NWTPH-G		8270/625 SEMI VOA		TCLP METALS RCRA 8		TURBIDITY	
NWTPH-G		8270 PAH/PNA		TCLP METALS (SPECIFY)		FLASH POINT	
NWTPH-DX		8062/606 PCB				BOD	
1664 SGT-HCM (TPH)						SOLIDS (SPECIFY) TDS	
1664 HEM (FOG)						Lead	

SPECIAL INSTRUCTIONS/COMMENTS:		PRINTED NAME	COMPANY	DATE	TIME
		Kevin Wilkerson	G-W P.E.	02/20/14	10:40 AM
		Randz Ross	Spectra	2/20/14	1047

RELINQUISHED BY

RECEIVED BY

RELINQUISHED BY

RECEIVED BY

RETURN SAMPLES ☐ DISPOSE SAMPLES ☐

Payment Terms: Net 30 days. Past due accounts subject to 1 1/2 % per month interest. Customer agrees to pay all costs of collection including reasonable attorney's fees and all other costs of collection regardless of whether suit is filed in Pierce Co., WA venue. Spectra Analytical, Inc.

(Shipping Fee Applies)

APPENDIX E



SPECTRA Laboratories

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03/25/2014

George Webster P.E.
PO Box 1583
Sumner, WA 98390

P.O.#: pd cc 165727/ck
Project: MLK Shell
Client ID: 1
Sample Matrix: Solid
Date Sampled: 03/15/2014
Date Received: 03/20/2014
Spectra Project: 2014030566
Spectra Number: 1
Rush

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
Diesel	<10.0	mg/Kg	NWTPH-D
Oil	242	mg/Kg	NWTPH-D
HCID- Gasoline	<20	mg/Kg	NWTPH-HCID
HCID-Diesel	<50	mg/Kg	NWTPH-HCID
HCID-Oil	Present	mg/Kg	NWTPH-HCID

<u>Surrogate</u>	<u>Recovery</u>	<u>Method</u>
4-Bromofluorobenzene	42	NWTPH-HCID
p-Terphenyl	69	NWTPH-HCID
p-Terphenyl	69	NWTPH-D

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager
a6/jjb

APPENDIX F



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04/10/2014

Northwest Environmental Solutions, Inc
PO Box 1583
Sumner, WA 98390

P.O.#: CC 162675
Project: Shell
Client ID: 3-A
Sample Matrix: Solid
Date Sampled: 04/06/2014
Date Received: 04/07/2014
Spectra Project: 2014040151
Spectra Number: 1
Rush

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
Gasoline	<5	mg/Kg	NWTPH-G
Benzene	<0.025	mg/Kg	SW846 8260C
Ethylbenzene	<0.025	mg/Kg	SW846 8260C
Methyl-tert-Butyl Ether	<0.025	mg/Kg	SW846 8260C
Toluene	<0.025	mg/Kg	SW846 8260C
Total Xylenes	<0.05	mg/Kg	SW846 8260C

<u>Surrogate</u>	<u>Recovery</u>	<u>Method</u>
Toluene-d8	96	NWTPH-G
4-Bromofluorobenzene	78	NWTPH-G

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager
a6/sgh



SPECTRA Laboratories

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April 10, 2014

Northwest Environmental Solutions, Inc.
P.O. Box 1583
Sumner, WA 98390

Sample Matrix: Water
EPA Method: 624/8260C
Spectra Project: 2014040151
Date Analyzed: 4/8/2014
Units: ug/L
Applies to Spectra #'s: #1
Spiked Sample 2014040137-1

GCMS VOLATILE ORGANIC ANALYSIS

Matrix Spike/ Matrix Spike Duplicate Results

COMPOUND	SAMPLE RESULT	SPIKE AMOUNT	MS RESULT	MS %REC	MSD RESULT	MSD %REC	RPD
1,1-Dichloroethene	<1	10.00	8.16	82	8.80	88	8
Benzene	<1	10.00	10.24	102	10.85	109	6
Trichloroethene	<1	10.00	9.90	99	10.80	108	9
Toluene	<1	10.00	10.37	104	10.67	107	3
Chlorobenzene	<1	10.00	10.31	103	10.90	109	6
(Results after dilution)							

Surrogates	MS	MSD	MB	Method Blank	ug/L
Dibromofluoromethane	76	80	73	Benzene	<1
1,2-Dichloroethane-d4	97	100	86	Toluene	<1
Toluene-d8	91	90	104	Ethylbenzene	<1
4-Bromofluorobenzene	93	89	83	Total Xylenes	<2
				MTBE	<1



Steven G. Hibbs
Laboratory Manager

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