con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-16 Sampled: 8/29/2017 12:00

Sample ID: 17H1544-08

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	13	3.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Acenaphthene	ND	31	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
Acenaphthylene	4.2	3.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Acenaphthylene	ND	31	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
Aniline	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Aniline	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
Anthracene	29	3.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Anthracene	ND	31	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
Benzo(a)anthracene	77	3.1	mg/Kg dry	8	E	SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Benzo(a)anthracene	84	31	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
Benzo(a)pyrene	65	3.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Benzo(a)pyrene	68	31	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
Benzo(b)fluoranthene	77	3.1	mg/Kg dry	8	E	SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Benzo(b)fluoranthene	84	31	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
Benzo(g,h,i)perylene	42	3.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Benzo(g,h,i)perylene	45	31	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
Benzo(k)fluoranthene	30	3.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Benzo(k)fluoranthene	31	31	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
Bis(2-chloroethoxy)methane	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Bis(2-chloroethoxy)methane	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
Bis(2-chloroethyl)ether	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Bis(2-chloroethyl)ether	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
Bis(2-chloroisopropyl)ether	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Bis(2-chloroisopropyl)ether	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
Bis(2-Ethylhexyl)phthalate	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Bis(2-Ethylhexyl)phthalate	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
4-Bromophenylphenylether	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
4-Bromophenylphenylether	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
Butylbenzylphthalate	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Butylbenzylphthalate	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
Carbazole	16	3.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Carbazole	ND	31	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
4-Chloroaniline	ND	12	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
4-Chloroaniline	ND	120	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
4-Chloro-3-methylphenol	ND	12	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
4-Chloro-3-methylphenol	ND	120	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
2-Chloronaphthalene	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
2-Chloronaphthalene	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
2-Chlorophenol	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
2-Chlorophenol	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
4-Chlorophenylphenylether	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
4-Chlorophenylphenylether	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
Chrysene	76	3.1	mg/Kg dry	8	E	SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Chrysene	79	31	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-16 Sampled: 8/29/2017 12:00

Sample ID: 17H1544-08

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Dibenz(a,h)anthracene	10	3.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Dibenz(a,h)anthracene	ND	31	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
Dibenzofuran	6.6	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Dibenzofuran	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
Di-n-butylphthalate	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Di-n-butylphthalate	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
3,3-Dichlorobenzidine	ND	3.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
3,3-Dichlorobenzidine	ND	31	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
2,4-Dichlorophenol	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
2,4-Dichlorophenol	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
Diethylphthalate	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Diethylphthalate	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
2,4-Dimethylphenol	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
2,4-Dimethylphenol	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
Dimethylphthalate	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Dimethylphthalate	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
4,6-Dinitro-2-methylphenol	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
4,6-Dinitro-2-methylphenol	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
2,4-Dinitrophenol	ND	12	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
2,4-Dinitrophenol	ND	120	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
2,4-Dinitrotoluene	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
2,4-Dinitrotoluene	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
2,6-Dinitrotoluene	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
2,6-Dinitrotoluene	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
Di-n-octylphthalate	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Di-n-octylphthalate	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
Fluoranthene	180	3.1	mg/Kg dry	8	E	SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Fluoranthene	160	31	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
Fluorene	13	3.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Fluorene	ND	31	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
Hexachlorobenzene	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Hexachlorobenzene	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
Hexachlorobutadiene	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Hexachlorobutadiene	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
Hexachlorocyclopentadiene	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Hexachlorocyclopentadiene	ND	61	mg/Kg dry	80	V-05	SW-846 8270D	9/5/17	9/7/17 2:24	BGL
Hexachloroethane	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Hexachloroethane	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
Indeno(1,2,3-cd)pyrene	42	3.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Indeno(1,2,3-cd)pyrene	46	31	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
Isophorone	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Isophorone	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
2-Methylnaphthalene	ND	3.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
2-Methylnaphthalene	ND	31	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-16 Sampled: 8/29/2017 12:00

Sample ID: 17H1544-08

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
2-Methylphenol	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
3/4-Methylphenol	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
3/4-Methylphenol	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
Naphthalene	5.9	3.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Naphthalene	ND	31	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
2-Nitroaniline	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
2-Nitroaniline	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
3-Nitroaniline	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
3-Nitroaniline	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
4-Nitroaniline	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
4-Nitroaniline	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
Nitrobenzene	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Nitrobenzene	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
2-Nitrophenol	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
2-Nitrophenol	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
4-Nitrophenol	ND	12	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
4-Nitrophenol	ND	120	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
N-Nitrosodiphenylamine	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
N-Nitrosodiphenylamine	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
N-Nitrosodi-n-propylamine	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
N-Nitrosodi-n-propylamine	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
Pentachloronitrobenzene	ND	6.1	mg/Kg dry	8	V-16	SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Pentachloronitrobenzene	ND	61	mg/Kg dry	80	V-16	SW-846 8270D	9/5/17	9/7/17 2:24	BGL
Pentachlorophenol	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Pentachlorophenol	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
Phenanthrene	140	3.1	mg/Kg dry	8	E	SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Phenanthrene	120	31	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
Phenol	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Phenol	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
Pyrene	150	3.1	mg/Kg dry	8	E	SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Pyrene	160	31	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
Pyridine	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
Pyridine	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
1,2,4,5-Tetrachlorobenzene	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
1,2,4,5-Tetrachlorobenzene	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
1,2,4-Trichlorobenzene	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
1,2,4-Trichlorobenzene	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
2,4,5-Trichlorophenol	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
2,4,5-Trichlorophenol	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL
2,4,6-Trichlorophenol	ND	6.1	mg/Kg dry	8		SW-846 8270D	9/5/17	9/6/17 23:14	BGL
2,4,6-Trichlorophenol	ND	61	mg/Kg dry	80		SW-846 8270D	9/5/17	9/7/17 2:24	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	37.8	30-130		9/6/17 23:14

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Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-16 Sampled: 8/29/2017 12:00

Sample ID: 17H1544-08

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Surrogates		**% Recovery**	**Recovery Limits**		**Flag/Qual**				
2-Fluorophenol		48.8	30-130					9/7/17 2:24	
Phenol-d6		37.6	30-130					9/6/17 23:14	
Phenol-d6		44.8	30-130					9/7/17 2:24	
Nitrobenzene-d5		45.4	30-130					9/6/17 23:14	
Nitrobenzene-d5		57.6	30-130					9/7/17 2:24	
2-Fluorobiphenyl		42.2	30-130					9/6/17 23:14	
2-Fluorobiphenyl		48.0	30-130					9/7/17 2:24	
2,4,6-Tribromophenol		50.5	30-130					9/6/17 23:14	
2,4,6-Tribromophenol		56.8	30-130					9/7/17 2:24	
p-Terphenyl-d14		55.8	30-130					9/6/17 23:14	
p-Terphenyl-d14		76.8	30-130					9/7/17 2:24	

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Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-16 Sampled: 8/29/2017 12:00

Sample ID: 17H1544-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	220	mg/Kg dry	10000		SW-846 8082A	9/6/17	9/10/17 9:08	TG
Aroclor-1221 [1]	ND	220	mg/Kg dry	10000		SW-846 8082A	9/6/17	9/10/17 9:08	TG
Aroclor-1232 [1]	ND	220	mg/Kg dry	10000		SW-846 8082A	9/6/17	9/10/17 9:08	TG
Aroclor-1242 [1]	ND	220	mg/Kg dry	10000		SW-846 8082A	9/6/17	9/10/17 9:08	TG
Aroclor-1248 [1]	ND	220	mg/Kg dry	10000		SW-846 8082A	9/6/17	9/10/17 9:08	TG
Aroclor-1254 [1]	ND	220	mg/Kg dry	10000		SW-846 8082A	9/6/17	9/10/17 9:08	TG
Aroclor-1260 [1]	2300	220	mg/Kg dry	10000		SW-846 8082A	9/6/17	9/10/17 9:08	TG
Aroclor-1262 [1]	ND	220	mg/Kg dry	10000		SW-846 8082A	9/6/17	9/10/17 9:08	TG
Aroclor-1268 [1]	ND	220	mg/Kg dry	10000		SW-846 8082A	9/6/17	9/10/17 9:08	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	9/10/17 9:08
Decachlorobiphenyl [2]	*	30-150	S-01	9/10/17 9:08
Tetrachloro-m-xylene [1]	*	30-150	S-01	9/10/17 9:08
Tetrachloro-m-xylene [2]	*	30-150	S-01	9/10/17 9:08

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-16 Sampled: 8/29/2017 12:00

Sample ID: 17H1544-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	6300	1100	mg/Kg dry	50		CTDEP ETPH	9/5/17	9/7/17 20:25	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	9/7/17 20:25

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-16 Sampled: 8/29/2017 12:00

Sample ID: 17H1544-08

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	21	2.8	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/7/17 17:35	QNW
Arsenic	37	2.8	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 19:58	QNW
Barium	120	2.8	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 19:58	QNW
Beryllium	ND	0.28	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/7/17 17:35	QNW
Cadmium	2.3	0.28	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/7/17 17:35	QNW
Chromium	51	0.56	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 19:58	QNW
Copper	290	0.56	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/7/17 17:35	QNW
Lead	230	0.84	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 19:58	QNW
Mercury	0.12	0.028	mg/Kg dry	1		SW-846 7471B	8/30/17	9/5/17 14:39	TJK
Nickel	87	0.56	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 19:58	QNW
Selenium	ND	5.6	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/7/17 17:35	QNW
Silver	ND	2.8	mg/Kg dry	5	DL-04	SW-846 6010C-D	9/5/17	9/7/17 18:49	QNW
Thallium	ND	2.8	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/11/17 15:37	QNW
Vanadium	280	1.1	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 19:58	QNW
Zinc	380	1.1	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 19:58	QNW

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-16 Sampled: 8/29/2017 12:00

Sample ID: 17H1544-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.6		% Wt	1		SM 2540G	8/31/17	9/1/17 8:37	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-17 Sampled: 8/29/2017 12:15

Sample ID: 17H1544-09

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
Acrylonitrile	ND	0.0062	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
Benzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
Bromobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
Bromodichloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
Bromoform	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
Bromomethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
2-Butanone (MEK)	ND	0.041	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
n-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
sec-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
tert-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
Carbon Disulfide	ND	0.0062	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
Carbon Tetrachloride	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
Chlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
Chloroethane	ND	0.021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
Chloroform	ND	0.0041	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
Chloromethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
2-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
4-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
Dibromomethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
1,2-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
1,3-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
1,4-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
trans-1,4-Dichloro-2-butene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
1,1-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
1,2-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
1,1-Dichloroethylene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
cis-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
trans-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
1,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
2,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
1,1-Dichloropropene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
Ethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
Hexachlorobutadiene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
2-Hexanone (MBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
Isopropylbenzene (Cumene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-17 Sampled: 8/29/2017 12:15

Sample ID: 17H1544-09

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0041	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
Methylene Chloride	ND	0.021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
Naphthalene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
n-Propylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
Styrene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
1,1,1,2-Tetrachloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
1,1,2,2-Tetrachloroethane	ND	0.0041	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
Tetrachloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
Tetrahydrofuran	ND	0.010	mg/Kg dry	1	V-16	SW-846 8260C	8/30/17	8/30/17 12:08	MFF
Toluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
1,2,3-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
1,2,4-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
1,1,1-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
1,1,2-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
Trichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
1,2,3-Trichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
1,2,4-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
1,3,5-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
Vinyl Chloride	ND	0.010	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
m+p Xylene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF
o-Xylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:08	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		8/30/17 12:08
Toluene-d8	104	70-130		8/30/17 12:08
4-Bromofluorobenzene	101	70-130		8/30/17 12:08

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-17 Sampled: 8/29/2017 12:15

Sample ID: 17H1544-09

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	57	40	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Acenaphthene	74	2.0	mg/Kg dry	5	E	SW-846 8270D	9/5/17	9/6/17 23:38	BGL
Acenaphthylene	ND	40	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Acenaphthylene	ND	2.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
Aniline	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Aniline	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
Anthracene	70	40	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Anthracene	88	2.0	mg/Kg dry	5	E	SW-846 8270D	9/5/17	9/6/17 23:38	BGL
Benzo(a)anthracene	220	40	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Benzo(a)anthracene	230	2.0	mg/Kg dry	5	E	SW-846 8270D	9/5/17	9/6/17 23:38	BGL
Benzo(a)pyrene	200	40	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Benzo(a)pyrene	240	2.0	mg/Kg dry	5	E	SW-846 8270D	9/5/17	9/6/17 23:38	BGL
Benzo(b)fluoranthene	220	40	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Benzo(b)fluoranthene	280	2.0	mg/Kg dry	5	E	SW-846 8270D	9/5/17	9/6/17 23:38	BGL
Benzo(g,h,i)perylene	130	40	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Benzo(g,h,i)perylene	130	2.0	mg/Kg dry	5	E	SW-846 8270D	9/5/17	9/6/17 23:38	BGL
Benzo(k)fluoranthene	91	40	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Benzo(k)fluoranthene	92	2.0	mg/Kg dry	5	E	SW-846 8270D	9/5/17	9/6/17 23:38	BGL
Bis(2-chloroethoxy)methane	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Bis(2-chloroethoxy)methane	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
Bis(2-chloroethyl)ether	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Bis(2-chloroethyl)ether	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
Bis(2-chloroisopropyl)ether	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Bis(2-chloroisopropyl)ether	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
Bis(2-Ethylhexyl)phthalate	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Bis(2-Ethylhexyl)phthalate	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
4-Bromophenylphenylether	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
4-Bromophenylphenylether	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
Butylbenzylphthalate	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Butylbenzylphthalate	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
Carbazole	ND	40	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Carbazole	43	2.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
4-Chloroaniline	ND	160	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
4-Chloroaniline	ND	7.8	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
4-Chloro-3-methylphenol	ND	160	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
4-Chloro-3-methylphenol	ND	7.8	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
2-Chloronaphthalene	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
2-Chloronaphthalene	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
2-Chlorophenol	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
2-Chlorophenol	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
4-Chlorophenylphenylether	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
4-Chlorophenylphenylether	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
Chrysene	210	40	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Chrysene	220	2.0	mg/Kg dry	5	E	SW-846 8270D	9/5/17	9/6/17 23:38	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-17 Sampled: 8/29/2017 12:15

Sample ID: 17H1544-09

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Dibenz(a,h)anthracene	ND	40	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Dibenz(a,h)anthracene	34	2.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
Dibenzofuran	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Dibenzofuran	22	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
Di-n-butylphthalate	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Di-n-butylphthalate	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
3,3-Dichlorobenzidine	ND	40	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
3,3-Dichlorobenzidine	ND	2.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
2,4-Dichlorophenol	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
2,4-Dichlorophenol	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
Diethylphthalate	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Diethylphthalate	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
2,4-Dimethylphenol	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
2,4-Dimethylphenol	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
Dimethylphthalate	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Dimethylphthalate	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
4,6-Dinitro-2-methylphenol	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
4,6-Dinitro-2-methylphenol	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
2,4-Dinitrophenol	ND	160	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
2,4-Dinitrophenol	ND	7.8	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
2,4-Dinitrotoluene	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
2,4-Dinitrotoluene	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
2,6-Dinitrotoluene	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
2,6-Dinitrotoluene	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
Di-n-octylphthalate	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Di-n-octylphthalate	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
Fluoranthene	460	40	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Fluoranthene	440	2.0	mg/Kg dry	5	E	SW-846 8270D	9/5/17	9/6/17 23:38	BGL
Fluorene	ND	40	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Fluorene	39	2.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
Hexachlorobenzene	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Hexachlorobenzene	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
Hexachlorobutadiene	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Hexachlorobutadiene	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
Hexachlorocyclopentadiene	ND	80	mg/Kg dry	100	V-05	SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Hexachlorocyclopentadiene	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
Hexachloroethane	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Hexachloroethane	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
Indeno(1,2,3-cd)pyrene	140	40	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Indeno(1,2,3-cd)pyrene	150	2.0	mg/Kg dry	5	E	SW-846 8270D	9/5/17	9/6/17 23:38	BGL
Isophorone	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Isophorone	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
2-Methylnaphthalene	ND	40	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
2-Methylnaphthalene	12	2.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-17 Sampled: 8/29/2017 12:15

Sample ID: 17H1544-09

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
2-Methylphenol	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
3/4-Methylphenol	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
3/4-Methylphenol	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
Naphthalene	ND	40	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Naphthalene	28	2.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
2-Nitroaniline	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
2-Nitroaniline	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
3-Nitroaniline	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
3-Nitroaniline	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
4-Nitroaniline	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
4-Nitroaniline	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
Nitrobenzene	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Nitrobenzene	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
2-Nitrophenol	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
2-Nitrophenol	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
4-Nitrophenol	ND	160	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
4-Nitrophenol	ND	7.8	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
N-Nitrosodiphenylamine	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
N-Nitrosodiphenylamine	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
N-Nitrosodi-n-propylamine	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
N-Nitrosodi-n-propylamine	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
Pentachloronitrobenzene	ND	80	mg/Kg dry	100	V-16	SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Pentachloronitrobenzene	ND	4.0	mg/Kg dry	5	V-16	SW-846 8270D	9/5/17	9/6/17 23:38	BGL
Pentachlorophenol	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Pentachlorophenol	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
Phenanthrene	350	40	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Phenanthrene	330	2.0	mg/Kg dry	5	E	SW-846 8270D	9/5/17	9/6/17 23:38	BGL
Phenol	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Phenol	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
Pyrene	390	40	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Pyrene	480	2.0	mg/Kg dry	5	E	SW-846 8270D	9/5/17	9/6/17 23:38	BGL
Pyridine	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
Pyridine	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
1,2,4,5-Tetrachlorobenzene	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
1,2,4,5-Tetrachlorobenzene	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
1,2,4-Trichlorobenzene	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
1,2,4-Trichlorobenzene	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
2,4,5-Trichlorophenol	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
2,4,5-Trichlorophenol	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL
2,4,6-Trichlorophenol	ND	80	mg/Kg dry	100		SW-846 8270D	9/5/17	9/7/17 13:16	BGL
2,4,6-Trichlorophenol	ND	4.0	mg/Kg dry	5		SW-846 8270D	9/5/17	9/6/17 23:38	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	*	30-130	S-01	9/7/17 13:16

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-17 Sampled: 8/29/2017 12:15

Sample ID: 17H1544-09

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL		Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Surrogates		**% Recovery**		**Recovery Limits**		**Flag/Qual**				
2-Fluorophenol		56.3		30-130					9/6/17 23:38	
Phenol-d6			*	30-130		S-01			9/7/17 13:16	
Phenol-d6		58.0		30-130					9/6/17 23:38	
Nitrobenzene-d5			*	30-130		S-01			9/7/17 13:16	
Nitrobenzene-d5		66.9		30-130					9/6/17 23:38	
2-Fluorobiphenyl			*	30-130		S-01			9/7/17 13:16	
2-Fluorobiphenyl		63.4		30-130					9/6/17 23:38	
2,4,6-Tribromophenol			*	30-130		S-01			9/7/17 13:16	
2,4,6-Tribromophenol		72.8		30-130					9/6/17 23:38	
p-Terphenyl-d14			*	30-130		S-01			9/7/17 13:16	
p-Terphenyl-d14		85.1		30-130					9/6/17 23:38	

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-17 Sampled: 8/29/2017 12:15

Sample ID: 17H1544-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.8	mg/Kg dry	80		SW-846 8082A	9/6/17	9/10/17 1:21	TG
Aroclor-1221 [1]	ND	1.8	mg/Kg dry	80		SW-846 8082A	9/6/17	9/10/17 1:21	TG
Aroclor-1232 [1]	ND	1.8	mg/Kg dry	80		SW-846 8082A	9/6/17	9/10/17 1:21	TG
Aroclor-1242 [1]	ND	1.8	mg/Kg dry	80		SW-846 8082A	9/6/17	9/10/17 1:21	TG
Aroclor-1248 [1]	ND	1.8	mg/Kg dry	80		SW-846 8082A	9/6/17	9/10/17 1:21	TG
Aroclor-1254 [1]	ND	1.8	mg/Kg dry	80		SW-846 8082A	9/6/17	9/10/17 1:21	TG
Aroclor-1260 [1]	14	1.8	mg/Kg dry	80		SW-846 8082A	9/6/17	9/10/17 1:21	TG
Aroclor-1262 [1]	ND	1.8	mg/Kg dry	80		SW-846 8082A	9/6/17	9/10/17 1:21	TG
Aroclor-1268 [1]	ND	1.8	mg/Kg dry	80		SW-846 8082A	9/6/17	9/10/17 1:21	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	9/10/17 1:21
Decachlorobiphenyl [2]	*	30-150	S-01	9/10/17 1:21
Tetrachloro-m-xylene [1]	*	30-150	S-01	9/10/17 1:21
Tetrachloro-m-xylene [2]	*	30-150	S-01	9/10/17 1:21

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-17 Sampled: 8/29/2017 12:15

Sample ID: 17H1544-09

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	7400	1200	mg/Kg dry	50		CTDEP ETPH	9/5/17	9/7/17 20:43	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	9/7/17 20:43

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-17 Sampled: 8/29/2017 12:15

Sample ID: 17H1544-09

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	25	2.9	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/7/17 17:38	QNW
Arsenic	25	2.9	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:04	QNW
Barium	130	2.9	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:04	QNW
Beryllium	ND	0.29	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/7/17 17:38	QNW
Cadmium	3.4	0.29	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/7/17 17:38	QNW
Chromium	97	0.59	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:04	QNW
Copper	570	0.59	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/7/17 17:38	QNW
Lead	1800	0.88	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:04	QNW
Mercury	0.35	0.029	mg/Kg dry	1		SW-846 7471B	8/30/17	9/5/17 14:41	TJK
Nickel	210	0.59	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:04	QNW
Selenium	ND	5.9	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/7/17 17:38	QNW
Silver	ND	2.9	mg/Kg dry	5	DL-04	SW-846 6010C-D	9/5/17	9/7/17 18:54	QNW
Thallium	ND	2.9	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/11/17 15:54	QNW
Vanadium	2000	1.2	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:04	QNW
Zinc	1100	1.2	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:04	QNW

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-17 Sampled: 8/29/2017 12:15

Sample ID: 17H1544-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.9		% Wt	1		SM 2540G	8/31/17	9/1/17 8:37	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: AS-AOC8-SE-18 Sampled: 8/29/2017 12:30

Sample ID: 17H1544-10

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.091	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
Acrylonitrile	ND	0.0055	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
Benzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
Bromobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
Bromodichloromethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
Bromoform	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
Bromomethane	ND	0.0091	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
2-Butanone (MEK)	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
n-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
sec-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
tert-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
Carbon Disulfide	ND	0.0055	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
Carbon Tetrachloride	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
Chlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
Chlorodibromomethane	ND	0.00091	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
Chloroethane	ND	0.018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
Chloroform	ND	0.0036	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
Chloromethane	ND	0.0091	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
2-Chlorotoluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
4-Chlorotoluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
1,2-Dibromoethane (EDB)	ND	0.00091	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
Dibromomethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
1,2-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
1,3-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
1,4-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
trans-1,4-Dichloro-2-butene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
1,1-Dichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
1,2-Dichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
1,1-Dichloroethylene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
cis-1,2-Dichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
trans-1,2-Dichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
1,2-Dichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
1,3-Dichloropropane	ND	0.00091	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
2,2-Dichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
1,1-Dichloropropene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
cis-1,3-Dichloropropene	ND	0.00091	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
trans-1,3-Dichloropropene	ND	0.00091	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
Ethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
Hexachlorobutadiene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
2-Hexanone (MBK)	ND	0.018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
Isopropylbenzene (Cumene)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: AS-AOC8-SE-18 Sampled: 8/29/2017 12:30

Sample ID: 17H1544-10

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0036	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
Methylene Chloride	ND	0.018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
Naphthalene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
n-Propylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
Styrene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
1,1,1,2-Tetrachloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
1,1,2,2-Tetrachloroethane	ND	0.0036	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
Tetrachloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
Tetrahydrofuran	ND	0.0091	mg/Kg dry	1	V-16	SW-846 8260C	8/30/17	8/30/17 11:40	MFF
Toluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
1,2,3-Trichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
1,2,4-Trichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
1,1,1-Trichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
1,1,2-Trichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
Trichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0091	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
1,2,3-Trichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0091	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
1,2,4-Trimethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
1,3,5-Trimethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
Vinyl Chloride	ND	0.0091	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
m+p Xylene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF
o-Xylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 11:40	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		8/30/17 11:40
Toluene-d8	105	70-130		8/30/17 11:40
4-Bromofluorobenzene	102	70-130		8/30/17 11:40

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: AS-AOC8-SE-18 Sampled: 8/29/2017 12:30

Sample ID: 17H1544-10

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	4.2	4.1	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Acenaphthene	4.1	0.82	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
Acenaphthylene	ND	4.1	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Acenaphthylene	ND	0.82	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
Aniline	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Aniline	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
Anthracene	6.6	4.1	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Anthracene	6.7	0.82	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
Benzo(a)anthracene	31	4.1	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Benzo(a)anthracene	31	0.82	mg/Kg dry	4	E	SW-846 8270D	9/5/17	9/7/17 0:02	BGL
Benzo(a)pyrene	31	4.1	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Benzo(a)pyrene	33	0.82	mg/Kg dry	4	E	SW-846 8270D	9/5/17	9/7/17 0:02	BGL
Benzo(b)fluoranthene	37	4.1	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Benzo(b)fluoranthene	39	0.82	mg/Kg dry	4	E	SW-846 8270D	9/5/17	9/7/17 0:02	BGL
Benzo(g,h,i)perylene	20	4.1	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Benzo(g,h,i)perylene	21	0.82	mg/Kg dry	4	E	SW-846 8270D	9/5/17	9/7/17 0:02	BGL
Benzo(k)fluoranthene	15	4.1	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Benzo(k)fluoranthene	13	0.82	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
Bis(2-chloroethoxy)methane	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Bis(2-chloroethoxy)methane	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
Bis(2-chloroethyl)ether	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Bis(2-chloroethyl)ether	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
Bis(2-chloroisopropyl)ether	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Bis(2-chloroisopropyl)ether	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
Bis(2-Ethylhexyl)phthalate	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Bis(2-Ethylhexyl)phthalate	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
4-Bromophenylphenylether	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
4-Bromophenylphenylether	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
Butylbenzylphthalate	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Butylbenzylphthalate	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
Carbazole	ND	4.1	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Carbazole	3.8	0.82	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
4-Chloroaniline	ND	16	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
4-Chloroaniline	ND	3.2	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
4-Chloro-3-methylphenol	ND	16	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
4-Chloro-3-methylphenol	ND	3.2	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
2-Chloronaphthalene	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
2-Chloronaphthalene	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
2-Chlorophenol	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
2-Chlorophenol	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
4-Chlorophenylphenylether	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
4-Chlorophenylphenylether	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
Chrysene	32	4.1	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Chrysene	32	0.82	mg/Kg dry	4	E	SW-846 8270D	9/5/17	9/7/17 0:02	BGL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: AS-AOC8-SE-18 Sampled: 8/29/2017 12:30

Sample ID: 17H1544-10

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Dibenz(a,h)anthracene	5.1	4.1	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Dibenz(a,h)anthracene	4.8	0.82	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
Dibenzofuran	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Dibenzofuran	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
Di-n-butylphthalate	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Di-n-butylphthalate	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
3,3-Dichlorobenzidine	ND	4.1	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
3,3-Dichlorobenzidine	ND	0.82	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
2,4-Dichlorophenol	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
2,4-Dichlorophenol	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
Diethylphthalate	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Diethylphthalate	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
2,4-Dimethylphenol	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
2,4-Dimethylphenol	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
Dimethylphthalate	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Dimethylphthalate	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
4,6-Dinitro-2-methylphenol	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
4,6-Dinitro-2-methylphenol	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
2,4-Dinitrophenol	ND	16	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
2,4-Dinitrophenol	ND	3.2	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
2,4-Dinitrotoluene	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
2,4-Dinitrotoluene	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
2,6-Dinitrotoluene	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
2,6-Dinitrotoluene	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
Di-n-octylphthalate	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Di-n-octylphthalate	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
Fluoranthene	62	4.1	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Fluoranthene	68	0.82	mg/Kg dry	4	E	SW-846 8270D	9/5/17	9/7/17 0:02	BGL
Fluorene	ND	4.1	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Fluorene	2.6	0.82	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
Hexachlorobenzene	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Hexachlorobenzene	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
Hexachlorobutadiene	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Hexachlorobutadiene	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
Hexachlorocyclopentadiene	ND	8.2	mg/Kg dry	20	V-05	SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Hexachlorocyclopentadiene	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
Hexachloroethane	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Hexachloroethane	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
Indeno(1,2,3-cd)pyrene	21	4.1	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Indeno(1,2,3-cd)pyrene	23	0.82	mg/Kg dry	4	E	SW-846 8270D	9/5/17	9/7/17 0:02	BGL
Isophorone	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Isophorone	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
2-Methylnaphthalene	ND	4.1	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
2-Methylnaphthalene	ND	0.82	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: AS-AOC8-SE-18 Sampled: 8/29/2017 12:30

Sample ID: 17H1544-10

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
2-Methylphenol	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
3/4-Methylphenol	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
3/4-Methylphenol	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
Naphthalene	ND	4.1	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Naphthalene	1.3	0.82	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
2-Nitroaniline	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
2-Nitroaniline	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
3-Nitroaniline	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
3-Nitroaniline	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
4-Nitroaniline	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
4-Nitroaniline	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
Nitrobenzene	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Nitrobenzene	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
2-Nitrophenol	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
2-Nitrophenol	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
4-Nitrophenol	ND	16	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
4-Nitrophenol	ND	3.2	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
N-Nitrosodiphenylamine	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
N-Nitrosodiphenylamine	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
N-Nitrosodi-n-propylamine	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
N-Nitrosodi-n-propylamine	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
Pentachloronitrobenzene	ND	8.2	mg/Kg dry	20	V-16	SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Pentachloronitrobenzene	ND	1.6	mg/Kg dry	4	V-16	SW-846 8270D	9/5/17	9/7/17 0:02	BGL
Pentachlorophenol	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Pentachlorophenol	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
Phenanthrene	33	4.1	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Phenanthrene	38	0.82	mg/Kg dry	4	E	SW-846 8270D	9/5/17	9/7/17 0:02	BGL
Phenol	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Phenol	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
Pyrene	51	4.1	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Pyrene	73	0.82	mg/Kg dry	4	E	SW-846 8270D	9/5/17	9/7/17 0:02	BGL
Pyridine	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
Pyridine	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
1,2,4,5-Tetrachlorobenzene	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
1,2,4,5-Tetrachlorobenzene	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
1,2,4-Trichlorobenzene	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
1,2,4-Trichlorobenzene	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
2,4,5-Trichlorophenol	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
2,4,5-Trichlorophenol	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL
2,4,6-Trichlorophenol	ND	8.2	mg/Kg dry	20		SW-846 8270D	9/5/17	9/7/17 14:45	BGL
2,4,6-Trichlorophenol	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:02	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	51.3	30-130		9/7/17 14:45

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: AS-AOC8-SE-18 Sampled: 8/29/2017 12:30

Sample ID: 17H1544-10

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Surrogates		**% Recovery**	**Recovery Limits**		**Flag/Qual**				
2-Fluorophenol		50.3	30-130					9/7/17 0:02	
Phenol-d6		52.5	30-130					9/7/17 14:45	
Phenol-d6		51.9	30-130					9/7/17 0:02	
Nitrobenzene-d5		59.8	30-130					9/7/17 14:45	
Nitrobenzene-d5		58.2	30-130					9/7/17 0:02	
2-Fluorobiphenyl		55.0	30-130					9/7/17 14:45	
2-Fluorobiphenyl		52.0	30-130					9/7/17 0:02	
2,4,6-Tribromophenol		64.4	30-130					9/7/17 14:45	
2,4,6-Tribromophenol		66.6	30-130					9/7/17 0:02	
p-Terphenyl-d14		57.8	30-130					9/7/17 14:45	
p-Terphenyl-d14		68.9	30-130					9/7/17 0:02	

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: AS-AOC8-SE-18 Sampled: 8/29/2017 12:30

Sample ID: 17H1544-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.93	mg/Kg dry	40		SW-846 8082A	9/6/17	9/10/17 9:26	TG
Aroclor-1221 [1]	ND	0.93	mg/Kg dry	40		SW-846 8082A	9/6/17	9/10/17 9:26	TG
Aroclor-1232 [1]	ND	0.93	mg/Kg dry	40		SW-846 8082A	9/6/17	9/10/17 9:26	TG
Aroclor-1242 [1]	ND	0.93	mg/Kg dry	40		SW-846 8082A	9/6/17	9/10/17 9:26	TG
Aroclor-1248 [1]	ND	0.93	mg/Kg dry	40		SW-846 8082A	9/6/17	9/10/17 9:26	TG
Aroclor-1254 [1]	ND	0.93	mg/Kg dry	40		SW-846 8082A	9/6/17	9/10/17 9:26	TG
Aroclor-1260 [1]	5.7	0.93	mg/Kg dry	40		SW-846 8082A	9/6/17	9/10/17 9:26	TG
Aroclor-1262 [1]	ND	0.93	mg/Kg dry	40		SW-846 8082A	9/6/17	9/10/17 9:26	TG
Aroclor-1268 [1]	ND	0.93	mg/Kg dry	40		SW-846 8082A	9/6/17	9/10/17 9:26	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	9/10/17 9:26
Decachlorobiphenyl [2]	*	30-150	S-01	9/10/17 9:26
Tetrachloro-m-xylene [1]	*	30-150	S-01	9/10/17 9:26
Tetrachloro-m-xylene [2]	*	30-150	S-01	9/10/17 9:26

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: AS-AOC8-SE-18 Sampled: 8/29/2017 12:30

Sample ID: 17H1544-10

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	4000	1200	mg/Kg dry	50		CTDEP ETPH	9/5/17	9/7/17 21:01	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	9/7/17 21:01

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: AS-AOC8-SE-18 Sampled: 8/29/2017 12:30

Sample ID: 17H1544-10

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	10	3.0	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/7/17 17:42	QNW
Arsenic	18	3.0	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:10	QNW
Barium	140	3.0	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:10	QNW
Beryllium	ND	0.30	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/7/17 17:42	QNW
Cadmium	2.9	0.30	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/7/17 17:42	QNW
Chromium	47	0.59	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:10	QNW
Copper	210	0.59	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/7/17 17:42	QNW
Lead	470	0.89	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:10	QNW
Mercury	0.35	0.030	mg/Kg dry	1		SW-846 7471B	8/30/17	9/5/17 14:42	TJK
Nickel	240	0.59	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:10	QNW
Selenium	ND	5.9	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/7/17 17:42	QNW
Silver	ND	1.2	mg/Kg dry	2	DL-04	SW-846 6010C-D	9/5/17	9/7/17 19:12	QNW
Thallium	ND	3.0	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/11/17 15:57	QNW
Vanadium	1700	1.2	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:10	QNW
Zinc	980	1.2	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:10	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: AS-AOC8-SE-18 Sampled: 8/29/2017 12:30

Sample ID: 17H1544-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.3		% Wt	1		SM 2540G	8/31/17	9/1/17 8:37	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-19 Sampled: 8/29/2017 12:45

Sample ID: 17H1544-11

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.098	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
Acrylonitrile	ND	0.0059	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
Benzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
Bromobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
Bromodichloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
Bromoform	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
Bromomethane	ND	0.0098	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
2-Butanone (MEK)	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
n-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
Carbon Disulfide	ND	0.0059	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
Chlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
Chlorodibromomethane	ND	0.00098	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
Chloroethane	ND	0.020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
Chloroform	ND	0.0039	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
Chloromethane	ND	0.0098	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
1,2-Dibromoethane (EDB)	ND	0.00098	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
Dibromomethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
trans-1,4-Dichloro-2-butene	ND	0.0039	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
1,1-Dichloroethylene	ND	0.0039	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
1,3-Dichloropropane	ND	0.00098	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
cis-1,3-Dichloropropene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
trans-1,3-Dichloropropene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
Ethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
Hexachlorobutadiene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-19 Sampled: 8/29/2017 12:45

Sample ID: 17H1544-11

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0039	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
Methylene Chloride	ND	0.020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
Naphthalene	ND	0.0039	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
n-Propylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
Styrene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
1,1,2,2-Tetrachloroethane	ND	0.0039	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
Tetrahydrofuran	ND	0.0098	mg/Kg dry	1	V-16	SW-846 8260C	8/30/17	8/30/17 12:36	MFF
Toluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
Trichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0098	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0098	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
Vinyl Chloride	ND	0.0098	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
m+p Xylene	ND	0.0039	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF
o-Xylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 12:36	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	102	70-130		8/30/17 12:36
Toluene-d8	104	70-130		8/30/17 12:36
4-Bromofluorobenzene	104	70-130		8/30/17 12:36

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-19 Sampled: 8/29/2017 12:45

Sample ID: 17H1544-11

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	36	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
Acenaphthene	24	0.72	mg/Kg dry	4	E	SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Acenaphthene	21	7.2	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Acenaphthylene	ND	36	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
Acenaphthylene	2.0	0.72	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Acenaphthylene	ND	7.2	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Aniline	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
Aniline	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Aniline	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Anthracene	36	36	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
Anthracene	41	0.72	mg/Kg dry	4	E	SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Anthracene	37	7.2	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Benzo(a)anthracene	110	36	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
Benzo(a)anthracene	110	0.72	mg/Kg dry	4	E	SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Benzo(a)anthracene	110	7.2	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Benzo(a)pyrene	93	36	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
Benzo(a)pyrene	110	0.72	mg/Kg dry	4	E	SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Benzo(a)pyrene	98	7.2	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Benzo(b)fluoranthene	110	36	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
Benzo(b)fluoranthene	150	0.72	mg/Kg dry	4	E	SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Benzo(b)fluoranthene	120	7.2	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Benzo(g,h,i)perylene	45	36	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
Benzo(g,h,i)perylene	52	0.72	mg/Kg dry	4	E	SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Benzo(g,h,i)perylene	46	7.2	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Benzo(k)fluoranthene	44	36	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
Benzo(k)fluoranthene	38	0.72	mg/Kg dry	4	E	SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Benzo(k)fluoranthene	45	7.2	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Bis(2-chloroethoxy)methane	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
Bis(2-chloroethoxy)methane	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Bis(2-chloroethoxy)methane	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Bis(2-chloroethyl)ether	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
Bis(2-chloroethyl)ether	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Bis(2-chloroethyl)ether	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Bis(2-chloroisopropyl)ether	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
Bis(2-chloroisopropyl)ether	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Bis(2-chloroisopropyl)ether	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Bis(2-Ethylhexyl)phthalate	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
Bis(2-Ethylhexyl)phthalate	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Bis(2-Ethylhexyl)phthalate	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
4-Bromophenylphenylether	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
4-Bromophenylphenylether	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
4-Bromophenylphenylether	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Butylbenzylphthalate	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
Butylbenzylphthalate	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-19 Sampled: 8/29/2017 12:45

Sample ID: 17H1544-11

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Butylbenzylphthalate	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Carbazole	ND	36	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
Carbazole	24	0.72	mg/Kg dry	4	E	SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Carbazole	23	7.2	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
4-Chloroaniline	ND	140	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
4-Chloroaniline	ND	2.8	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
4-Chloroaniline	ND	28	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
4-Chloro-3-methylphenol	ND	140	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
4-Chloro-3-methylphenol	ND	2.8	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
4-Chloro-3-methylphenol	ND	28	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
2-Chloronaphthalene	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
2-Chloronaphthalene	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
2-Chloronaphthalene	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
2-Chlorophenol	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
2-Chlorophenol	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
2-Chlorophenol	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
4-Chlorophenylphenylether	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
4-Chlorophenylphenylether	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
4-Chlorophenylphenylether	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Chrysene	110	36	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
Chrysene	100	0.72	mg/Kg dry	4	E	SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Chrysene	110	7.2	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Dibenz(a,h)anthracene	ND	36	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
Dibenz(a,h)anthracene	17	0.72	mg/Kg dry	4	E	SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Dibenz(a,h)anthracene	13	7.2	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Dibenzofuran	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
Dibenzofuran	8.8	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Dibenzofuran	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Di-n-butylphthalate	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
Di-n-butylphthalate	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Di-n-butylphthalate	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
3,3-Dichlorobenzidine	ND	36	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
3,3-Dichlorobenzidine	ND	0.72	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
3,3-Dichlorobenzidine	ND	7.2	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
2,4-Dichlorophenol	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
2,4-Dichlorophenol	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
2,4-Dichlorophenol	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Diethylphthalate	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
Diethylphthalate	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Diethylphthalate	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
2,4-Dimethylphenol	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
2,4-Dimethylphenol	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
2,4-Dimethylphenol	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Dimethylphthalate	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-19 Sampled: 8/29/2017 12:45

Sample ID: 17H1544-11

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Dimethylphthalate	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Dimethylphthalate	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
4,6-Dinitro-2-methylphenol	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
4,6-Dinitro-2-methylphenol	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
4,6-Dinitro-2-methylphenol	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
2,4-Dinitrophenol	ND	140	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
2,4-Dinitrophenol	ND	2.8	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
2,4-Dinitrophenol	ND	28	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
2,4-Dinitrotoluene	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
2,4-Dinitrotoluene	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
2,4-Dinitrotoluene	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
2,6-Dinitrotoluene	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
2,6-Dinitrotoluene	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
2,6-Dinitrotoluene	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Di-n-octylphthalate	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
Di-n-octylphthalate	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Di-n-octylphthalate	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Fluoranthene	250	36	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
Fluoranthene	170	0.72	mg/Kg dry	4	E	SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Fluoranthene	300	7.2	mg/Kg dry	40	E	SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Fluorene	ND	36	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
Fluorene	17	0.72	mg/Kg dry	4	E	SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Fluorene	15	7.2	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Hexachlorobenzene	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
Hexachlorobenzene	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Hexachlorobenzene	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Hexachlorobutadiene	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
Hexachlorobutadiene	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Hexachlorobutadiene	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Hexachlorocyclopentadiene	ND	72	mg/Kg dry	200	V-05	SW-846 8270D	9/5/17	9/7/17 15:44	BGL
Hexachlorocyclopentadiene	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Hexachlorocyclopentadiene	ND	14	mg/Kg dry	40	V-05	SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Hexachloroethane	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
Hexachloroethane	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Hexachloroethane	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Indeno(1,2,3-cd)pyrene	51	36	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
Indeno(1,2,3-cd)pyrene	65	0.72	mg/Kg dry	4	E	SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Indeno(1,2,3-cd)pyrene	54	7.2	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Isophorone	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
Isophorone	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Isophorone	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
2-Methylnaphthalene	ND	36	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
2-Methylnaphthalene	2.5	0.72	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
2-Methylnaphthalene	ND	7.2	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-19 Sampled: 8/29/2017 12:45

Sample ID: 17H1544-11

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
2-Methylphenol	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
2-Methylphenol	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
3/4-Methylphenol	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
3/4-Methylphenol	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
3/4-Methylphenol	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Naphthalene	ND	36	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
Naphthalene	5.0	0.72	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Naphthalene	ND	7.2	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
2-Nitroaniline	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
2-Nitroaniline	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
2-Nitroaniline	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
3-Nitroaniline	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
3-Nitroaniline	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
3-Nitroaniline	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
4-Nitroaniline	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
4-Nitroaniline	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
4-Nitroaniline	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Nitrobenzene	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
Nitrobenzene	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Nitrobenzene	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
2-Nitrophenol	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
2-Nitrophenol	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
2-Nitrophenol	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
4-Nitrophenol	ND	140	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
4-Nitrophenol	ND	2.8	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
4-Nitrophenol	ND	28	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
N-Nitrosodiphenylamine	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
N-Nitrosodiphenylamine	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
N-Nitrosodiphenylamine	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
N-Nitrosodi-n-propylamine	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
N-Nitrosodi-n-propylamine	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
N-Nitrosodi-n-propylamine	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Pentachloronitrobenzene	ND	72	mg/Kg dry	200	V-16	SW-846 8270D	9/5/17	9/7/17 15:44	BGL
Pentachloronitrobenzene	ND	1.4	mg/Kg dry	4	V-16	SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Pentachloronitrobenzene	ND	14	mg/Kg dry	40	V-16	SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Pentachlorophenol	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
Pentachlorophenol	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Pentachlorophenol	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Phenanthrene	190	36	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
Phenanthrene	130	0.72	mg/Kg dry	4	E	SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Phenanthrene	220	7.2	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Phenol	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-19 Sampled: 8/29/2017 12:45

Sample ID: 17H1544-11

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Phenol	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Phenol	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Pyrene	200	36	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
Pyrene	190	0.72	mg/Kg dry	4	E	SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Pyrene	220	7.2	mg/Kg dry	40	E	SW-846 8270D	9/5/17	9/7/17 15:14	BGL
Pyridine	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
Pyridine	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
Pyridine	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
1,2,4,5-Tetrachlorobenzene	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
1,2,4,5-Tetrachlorobenzene	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
1,2,4,5-Tetrachlorobenzene	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
1,2,4-Trichlorobenzene	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
1,2,4-Trichlorobenzene	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
1,2,4-Trichlorobenzene	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
2,4,5-Trichlorophenol	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
2,4,5-Trichlorophenol	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
2,4,5-Trichlorophenol	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL
2,4,6-Trichlorophenol	ND	72	mg/Kg dry	200		SW-846 8270D	9/5/17	9/7/17 15:44	BGL
2,4,6-Trichlorophenol	ND	1.4	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 0:25	BGL
2,4,6-Trichlorophenol	ND	14	mg/Kg dry	40		SW-846 8270D	9/5/17	9/7/17 15:14	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	*	30-130	S-01	9/7/17 15:44
2-Fluorophenol	56.3	30-130		9/7/17 0:25
2-Fluorophenol	58.6	30-130		9/7/17 15:14
Phenol-d6	*	30-130	S-01	9/7/17 15:44
Phenol-d6	57.2	30-130		9/7/17 0:25
Phenol-d6	56.2	30-130		9/7/17 15:14
Nitrobenzene-d5	*	30-130	S-01	9/7/17 15:44
Nitrobenzene-d5	60.8	30-130		9/7/17 0:25
Nitrobenzene-d5	64.4	30-130		9/7/17 15:14
2-Fluorobiphenyl	*	30-130	S-01	9/7/17 15:44
2-Fluorobiphenyl	58.2	30-130		9/7/17 0:25
2-Fluorobiphenyl	59.2	30-130		9/7/17 15:14
2,4,6-Tribromophenol	*	30-130	S-01	9/7/17 15:44
2,4,6-Tribromophenol	74.5	30-130		9/7/17 0:25
2,4,6-Tribromophenol	67.4	30-130		9/7/17 15:14
p-Terphenyl-d14	*	30-130	S-01	9/7/17 15:44
p-Terphenyl-d14	77.1	30-130		9/7/17 0:25
p-Terphenyl-d14	70.4	30-130		9/7/17 15:14

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-19 Sampled: 8/29/2017 12:45

Sample ID: 17H1544-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/6/17	9/10/17 1:46	TG
Aroclor-1221 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/6/17	9/10/17 1:46	TG
Aroclor-1232 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/6/17	9/10/17 1:46	TG
Aroclor-1242 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/6/17	9/10/17 1:46	TG
Aroclor-1248 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/6/17	9/10/17 1:46	TG
Aroclor-1254 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/6/17	9/10/17 1:46	TG
Aroclor-1260 [1]	1.5	0.21	mg/Kg dry	10		SW-846 8082A	9/6/17	9/10/17 1:46	TG
Aroclor-1262 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/6/17	9/10/17 1:46	TG
Aroclor-1268 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/6/17	9/10/17 1:46	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	40.9	30-150		9/10/17 1:46
Decachlorobiphenyl [2]	130	30-150		9/10/17 1:46
Tetrachloro-m-xylene [1]	39.8	30-150		9/10/17 1:46
Tetrachloro-m-xylene [2]	44.8	30-150		9/10/17 1:46

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-19 Sampled: 8/29/2017 12:45

Sample ID: 17H1544-11

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	31	11	mg/Kg dry	1		CTDEP ETPH	9/5/17	9/8/17 2:18	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	84.9	50-150		9/8/17 2:18

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-19 Sampled: 8/29/2017 12:45

Sample ID: 17H1544-11

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	20	2.5	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/7/17 17:50	QNW
Arsenic	19	2.5	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:43	QNW
Barium	150	2.5	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:43	QNW
Beryllium	ND	0.25	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/7/17 17:50	QNW
Cadmium	2.4	0.25	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/7/17 17:50	QNW
Chromium	80	0.51	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:43	QNW
Copper	450	0.51	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/7/17 17:50	QNW
Lead	870	0.76	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:43	QNW
Mercury	0.11	0.026	mg/Kg dry	1		SW-846 7471B	8/30/17	9/5/17 14:44	TJK
Nickel	120	0.51	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:43	QNW
Selenium	ND	5.1	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/7/17 17:50	QNW
Silver	ND	1.0	mg/Kg dry	2	DL-04	SW-846 6010C-D	9/5/17	9/11/17 16:02	QNW
Thallium	ND	2.5	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/11/17 16:05	QNW
Vanadium	470	1.0	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:43	QNW
Zinc	1500	1.0	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:43	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-19 Sampled: 8/29/2017 12:45

Sample ID: 17H1544-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.9		% Wt	1		SM 2540G	8/31/17	9/1/17 8:37	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-24 Sampled: 8/29/2017 13:00

Sample ID: 17H1544-12

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	4.8	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
Acrylonitrile	ND	0.48	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
Benzene	ND	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
Bromobenzene	ND	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
Bromodichloromethane	ND	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
Bromoform	ND	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
Bromomethane	ND	0.19	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
2-Butanone (MEK)	ND	1.9	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
n-Butylbenzene	0.15	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
sec-Butylbenzene	0.13	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
tert-Butylbenzene	ND	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
Carbon Disulfide	ND	0.29	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
Carbon Tetrachloride	ND	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
Chlorobenzene	ND	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
Chlorodibromomethane	ND	0.048	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
Chloroethane	ND	0.19	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
Chloroform	ND	0.19	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
Chloromethane	ND	0.19	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
2-Chlorotoluene	ND	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
4-Chlorotoluene	ND	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.48	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
1,2-Dibromoethane (EDB)	ND	0.048	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
Dibromomethane	ND	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
1,2-Dichlorobenzene	ND	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
1,3-Dichlorobenzene	ND	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
1,4-Dichlorobenzene	ND	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
trans-1,4-Dichloro-2-butene	ND	0.19	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.19	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
1,1-Dichloroethane	ND	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
1,2-Dichloroethane	ND	0.19	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
1,1-Dichloroethylene	ND	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
cis-1,2-Dichloroethylene	ND	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
trans-1,2-Dichloroethylene	ND	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
1,2-Dichloropropane	ND	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
1,3-Dichloropropane	ND	0.048	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
2,2-Dichloropropane	ND	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
1,1-Dichloropropene	ND	0.19	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
cis-1,3-Dichloropropene	ND	0.048	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
trans-1,3-Dichloropropene	ND	0.048	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
Ethylbenzene	ND	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
Hexachlorobutadiene	ND	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
2-Hexanone (MBK)	ND	0.96	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
Isopropylbenzene (Cumene)	ND	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
p-Isopropyltoluene (p-Cymene)	0.11	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-24 Sampled: 8/29/2017 13:00

Sample ID: 17H1544-12

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
Methylene Chloride	ND	0.48	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
4-Methyl-2-pentanone (MIBK)	ND	0.96	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
Naphthalene	0.73	0.19	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
n-Propylbenzene	ND	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
Styrene	ND	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
1,1,1,2-Tetrachloroethane	ND	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
1,1,2,2-Tetrachloroethane	ND	0.048	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
Tetrachloroethylene	ND	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
Tetrahydrofuran	ND	0.96	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
Toluene	ND	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
1,2,3-Trichlorobenzene	ND	0.48	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
1,2,4-Trichlorobenzene	ND	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
1,1,1-Trichloroethane	ND	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
1,1,2-Trichloroethane	ND	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
Trichloroethylene	ND	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
Trichlorofluoromethane (Freon 11)	ND	0.19	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
1,2,3-Trichloropropane	ND	0.19	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
1,2,4-Trimethylbenzene	0.44	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
1,3,5-Trimethylbenzene	0.15	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
Vinyl Chloride	ND	0.19	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
m+p Xylene	ND	0.19	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH
o-Xylene	ND	0.096	mg/Kg dry	1		SW-846 8260C	8/30/17	9/5/17 17:08	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	119	70-130		9/5/17 17:08
Toluene-d8	104	70-130		9/5/17 17:08
4-Bromofluorobenzene	96.0	70-130		9/5/17 17:08

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-24 Sampled: 8/29/2017 13:00

Sample ID: 17H1544-12

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	4.9	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Acenaphthylene	ND	4.9	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Aniline	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Anthracene	ND	4.9	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Benzo(a)anthracene	ND	4.9	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Benzo(a)pyrene	ND	4.9	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Benzo(b)fluoranthene	ND	4.9	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Benzo(g,h,i)perylene	ND	4.9	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Benzo(k)fluoranthene	ND	4.9	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Bis(2-chloroethoxy)methane	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Bis(2-chloroethyl)ether	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Bis(2-chloroisopropyl)ether	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
4-Bromophenylphenylether	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Butylbenzylphthalate	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Carbazole	ND	4.9	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
4-Chloroaniline	ND	19	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
4-Chloro-3-methylphenol	ND	19	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
2-Chloronaphthalene	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
2-Chlorophenol	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
4-Chlorophenylphenylether	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Chrysene	ND	4.9	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Dibenz(a,h)anthracene	ND	4.9	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Dibenzofuran	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Di-n-butylphthalate	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
3,3-Dichlorobenzidine	ND	4.9	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
2,4-Dichlorophenol	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Diethylphthalate	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
2,4-Dimethylphenol	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Dimethylphthalate	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
4,6-Dinitro-2-methylphenol	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
2,4-Dinitrophenol	ND	19	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
2,4-Dinitrotoluene	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
2,6-Dinitrotoluene	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Di-n-octylphthalate	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Fluoranthene	5.0	4.9	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Fluorene	ND	4.9	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Hexachlorobenzene	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Hexachlorobutadiene	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Hexachlorocyclopentadiene	ND	9.8	mg/Kg dry	10	V-05	SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Hexachloroethane	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Indeno(1,2,3-cd)pyrene	ND	4.9	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Isophorone	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
2-Methylnaphthalene	ND	4.9	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-24 Sampled: 8/29/2017 13:00

Sample ID: 17H1544-12

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
3/4-Methylphenol	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Naphthalene	ND	4.9	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
2-Nitroaniline	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
3-Nitroaniline	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
4-Nitroaniline	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Nitrobenzene	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
2-Nitrophenol	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
4-Nitrophenol	ND	19	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
N-Nitrosodiphenylamine	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
N-Nitrosodi-n-propylamine	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Pentachloronitrobenzene	ND	9.8	mg/Kg dry	10	V-16	SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Pentachlorophenol	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Phenanthrene	ND	4.9	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Phenol	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Pyrene	ND	4.9	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
Pyridine	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
1,2,4-Trichlorobenzene	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
2,4,5-Trichlorophenol	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL
2,4,6-Trichlorophenol	ND	9.8	mg/Kg dry	10		SW-846 8270D	9/5/17	9/7/17 20:30	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	61.7	30-130		9/7/17 20:30
Phenol-d6	65.3	30-130		9/7/17 20:30
Nitrobenzene-d5	75.0	30-130		9/7/17 20:30
2-Fluorobiphenyl	66.0	30-130		9/7/17 20:30
2,4,6-Tribromophenol	87.7	30-130		9/7/17 20:30
p-Terphenyl-d14	70.0	30-130		9/7/17 20:30

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-24 Sampled: 8/29/2017 13:00

Sample ID: 17H1544-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 1:59	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 1:59	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 1:59	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 1:59	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 1:59	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 1:59	TG
Aroclor-1260 [1]	0.32	0.11	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 1:59	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 1:59	TG
Aroclor-1268 [1]	0.14	0.11	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 1:59	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	51.6	30-150		9/10/17 1:59
Decachlorobiphenyl [2]	58.7	30-150		9/10/17 1:59
Tetrachloro-m-xylene [1]	58.3	30-150		9/10/17 1:59
Tetrachloro-m-xylene [2]	63.7	30-150		9/10/17 1:59

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-24 Sampled: 8/29/2017 13:00

Sample ID: 17H1544-12

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1600	1400	mg/Kg dry	50		CTDEP ETPH	9/5/17	9/7/17 21:18	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	9/7/17 21:18

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-24 Sampled: 8/29/2017 13:00

Sample ID: 17H1544-12

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	3.8	3.4	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/7/17 17:54	QNW
Arsenic	ND	3.4	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:49	QNW
Barium	210	3.4	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:49	QNW
Beryllium	ND	0.34	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/7/17 17:54	QNW
Cadmium	2.0	0.34	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/7/17 17:54	QNW
Chromium	32	0.67	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:49	QNW
Copper	220	0.67	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/7/17 17:54	QNW
Lead	460	1.0	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:49	QNW
Mercury	0.098	0.036	mg/Kg dry	1		SW-846 7471B	8/30/17	9/5/17 14:46	TJK
Nickel	31	0.67	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:49	QNW
Selenium	ND	6.7	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/7/17 17:54	QNW
Silver	ND	0.67	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:49	QNW
Thallium	ND	3.4	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:49	QNW
Vanadium	98	1.3	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:49	QNW
Zinc	950	1.3	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:49	QNW

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-SE-24 Sampled: 8/29/2017 13:00

Sample ID: 17H1544-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	69.5		% Wt	1		SM 2540G	8/31/17	9/1/17 8:37	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC13-CO-26 Sampled: 8/29/2017 09:10

Sample ID: 17H1544-13

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/6/17	9/9/17 0:59	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/6/17	9/9/17 0:59	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/6/17	9/9/17 0:59	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/6/17	9/9/17 0:59	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/6/17	9/9/17 0:59	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/6/17	9/9/17 0:59	PJG
Aroclor-1260 [2]	1.1	0.10	mg/Kg	1		SW-846 8082A	9/6/17	9/9/17 0:59	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/6/17	9/9/17 0:59	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/6/17	9/9/17 0:59	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	102	30-150		9/9/17 0:59
Decachlorobiphenyl [2]	117	30-150		9/9/17 0:59
Tetrachloro-m-xylene [1]	90.2	30-150		9/9/17 0:59
Tetrachloro-m-xylene [2]	97.3	30-150		9/9/17 0:59

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC13-CO-27 Sampled: 8/29/2017 09:40

Sample ID: 17H1544-14

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/9/17 1:17	PJG
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/9/17 1:17	PJG
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/9/17 1:17	PJG
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/9/17 1:17	PJG
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/9/17 1:17	PJG
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/9/17 1:17	PJG
Aroclor-1260 [2]	0.93	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/9/17 1:17	PJG
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/9/17 1:17	PJG
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/9/17 1:17	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	106	30-150		9/9/17 1:17
Decachlorobiphenyl [2]	119	30-150		9/9/17 1:17
Tetrachloro-m-xylene [1]	91.3	30-150		9/9/17 1:17
Tetrachloro-m-xylene [2]	98.4	30-150		9/9/17 1:17

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC13-CO-29 Sampled: 8/29/2017 10:05

Sample ID: 17H1544-15

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	9/6/17	9/9/17 21:40	PJG
Aroclor-1221 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	9/6/17	9/9/17 21:40	PJG
Aroclor-1232 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	9/6/17	9/9/17 21:40	PJG
Aroclor-1242 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	9/6/17	9/9/17 21:40	PJG
Aroclor-1248 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	9/6/17	9/9/17 21:40	PJG
Aroclor-1254 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	9/6/17	9/9/17 21:40	PJG
Aroclor-1260 [2]	2.9	0.45	mg/Kg	5		SW-846 8082A	9/6/17	9/9/17 21:40	PJG
Aroclor-1262 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	9/6/17	9/9/17 21:40	PJG
Aroclor-1268 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	9/6/17	9/9/17 21:40	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	108	30-150		9/9/17 21:40
Decachlorobiphenyl [2]	118	30-150		9/9/17 21:40
Tetrachloro-m-xylene [1]	97.4	30-150		9/9/17 21:40
Tetrachloro-m-xylene [2]	101	30-150		9/9/17 21:40

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-CO-16 Sampled: 8/29/2017 12:05

Sample ID: 17H1544-16

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	190	mg/Kg	2000		SW-846 8082A	9/6/17	9/9/17 22:15	PJG
Aroclor-1221 [1]	ND	190	mg/Kg	2000		SW-846 8082A	9/6/17	9/9/17 22:15	PJG
Aroclor-1232 [1]	ND	190	mg/Kg	2000		SW-846 8082A	9/6/17	9/9/17 22:15	PJG
Aroclor-1242 [1]	ND	190	mg/Kg	2000		SW-846 8082A	9/6/17	9/9/17 22:15	PJG
Aroclor-1248 [1]	ND	190	mg/Kg	2000		SW-846 8082A	9/6/17	9/9/17 22:15	PJG
Aroclor-1254 [1]	ND	190	mg/Kg	2000		SW-846 8082A	9/6/17	9/9/17 22:15	PJG
Aroclor-1260 [2]	1800	190	mg/Kg	2000		SW-846 8082A	9/6/17	9/9/17 22:15	PJG
Aroclor-1262 [1]	ND	190	mg/Kg	2000		SW-846 8082A	9/6/17	9/9/17 22:15	PJG
Aroclor-1268 [1]	ND	190	mg/Kg	2000		SW-846 8082A	9/6/17	9/9/17 22:15	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	9/9/17 22:15
Decachlorobiphenyl [2]	*	30-150	S-01	9/9/17 22:15
Tetrachloro-m-xylene [1]	*	30-150	S-01	9/9/17 22:15
Tetrachloro-m-xylene [2]	*	30-150	S-01	9/9/17 22:15

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-CO-17 Sampled: 8/29/2017 12:20

Sample ID: 17H1544-17

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	9/6/17	9/9/17 22:33	PJG
Aroclor-1221 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	9/6/17	9/9/17 22:33	PJG
Aroclor-1232 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	9/6/17	9/9/17 22:33	PJG
Aroclor-1242 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	9/6/17	9/9/17 22:33	PJG
Aroclor-1248 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	9/6/17	9/9/17 22:33	PJG
Aroclor-1254 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	9/6/17	9/9/17 22:33	PJG
Aroclor-1260 [1]	1.9	0.48	mg/Kg	5		SW-846 8082A	9/6/17	9/9/17 22:33	PJG
Aroclor-1262 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	9/6/17	9/9/17 22:33	PJG
Aroclor-1268 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	9/6/17	9/9/17 22:33	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	132	30-150		9/9/17 22:33
Decachlorobiphenyl [2]	145	30-150		9/9/17 22:33
Tetrachloro-m-xylene [1]	117	30-150		9/9/17 22:33
Tetrachloro-m-xylene [2]	121	30-150		9/9/17 22:33

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-CO-18 Sampled: 8/29/2017 12:35

Sample ID: 17H1544-18

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	9/6/17	9/9/17 22:51	PJG
Aroclor-1221 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	9/6/17	9/9/17 22:51	PJG
Aroclor-1232 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	9/6/17	9/9/17 22:51	PJG
Aroclor-1242 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	9/6/17	9/9/17 22:51	PJG
Aroclor-1248 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	9/6/17	9/9/17 22:51	PJG
Aroclor-1254 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	9/6/17	9/9/17 22:51	PJG
Aroclor-1260 [1]	2.0	0.48	mg/Kg	5		SW-846 8082A	9/6/17	9/9/17 22:51	PJG
Aroclor-1262 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	9/6/17	9/9/17 22:51	PJG
Aroclor-1268 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	9/6/17	9/9/17 22:51	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	64.2	30-150		9/9/17 22:51
Decachlorobiphenyl [2]	72.2	30-150		9/9/17 22:51
Tetrachloro-m-xylene [1]	62.8	30-150		9/9/17 22:51
Tetrachloro-m-xylene [2]	64.1	30-150		9/9/17 22:51

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC8-CO-19 Sampled: 8/29/2017 12:50

Sample ID: 17H1544-19

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	9/6/17	9/9/17 23:09	PJG
Aroclor-1221 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	9/6/17	9/9/17 23:09	PJG
Aroclor-1232 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	9/6/17	9/9/17 23:09	PJG
Aroclor-1242 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	9/6/17	9/9/17 23:09	PJG
Aroclor-1248 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	9/6/17	9/9/17 23:09	PJG
Aroclor-1254 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	9/6/17	9/9/17 23:09	PJG
Aroclor-1260 [2]	0.79	0.097	mg/Kg	1		SW-846 8082A	9/6/17	9/9/17 23:09	PJG
Aroclor-1262 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	9/6/17	9/9/17 23:09	PJG
Aroclor-1268 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	9/6/17	9/9/17 23:09	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	104	30-150		9/9/17 23:09
Decachlorobiphenyl [2]	130	30-150		9/9/17 23:09
Tetrachloro-m-xylene [1]	93.0	30-150		9/9/17 23:09
Tetrachloro-m-xylene [2]	101	30-150		9/9/17 23:09

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC13-SE-Dup1 Sampled: 8/29/2017 00:00

Sample ID: 17H1544-20

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.092	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
Acrylonitrile	ND	0.0055	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
Benzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
Bromobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
Bromodichloromethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
Bromoform	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
Bromomethane	ND	0.0092	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
2-Butanone (MEK)	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
n-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
sec-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
tert-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
Carbon Disulfide	ND	0.0055	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
Carbon Tetrachloride	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
Chlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
Chlorodibromomethane	ND	0.00092	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
Chloroethane	ND	0.018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
Chloroform	ND	0.0037	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
Chloromethane	ND	0.0092	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
2-Chlorotoluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
4-Chlorotoluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
1,2-Dibromoethane (EDB)	ND	0.00092	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
Dibromomethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
1,2-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
1,3-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
1,4-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
trans-1,4-Dichloro-2-butene	ND	0.0037	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
1,1-Dichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
1,2-Dichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
1,1-Dichloroethylene	ND	0.0037	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
cis-1,2-Dichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
trans-1,2-Dichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
1,2-Dichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
1,3-Dichloropropane	ND	0.00092	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
2,2-Dichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
1,1-Dichloropropene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
cis-1,3-Dichloropropene	ND	0.00092	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
trans-1,3-Dichloropropene	ND	0.00092	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
Ethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
Hexachlorobutadiene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
2-Hexanone (MBK)	ND	0.018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
Isopropylbenzene (Cumene)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC13-SE-Dup1 Sampled: 8/29/2017 00:00

Sample ID: 17H1544-20

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0037	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
Methylene Chloride	ND	0.018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
Naphthalene	ND	0.0037	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
n-Propylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
Styrene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
1,1,1,2-Tetrachloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
1,1,2,2-Tetrachloroethane	ND	0.0037	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
Tetrachloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
Tetrahydrofuran	ND	0.0092	mg/Kg dry	1	V-16	SW-846 8260C	8/30/17	8/30/17 10:44	MFF
Toluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
1,2,3-Trichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
1,2,4-Trichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
1,1,1-Trichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
1,1,2-Trichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
Trichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0092	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
1,2,3-Trichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0092	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
1,2,4-Trimethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
1,3,5-Trimethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
Vinyl Chloride	ND	0.0092	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
m+p Xylene	ND	0.0037	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF
o-Xylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	8/30/17	8/30/17 10:44	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		8/30/17 10:44
Toluene-d8	106	70-130		8/30/17 10:44
4-Bromofluorobenzene	102	70-130		8/30/17 10:44

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC13-SE-Dup1 Sampled: 8/29/2017 00:00

Sample ID: 17H1544-20

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.85	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Acenaphthylene	ND	0.85	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Aniline	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Anthracene	ND	0.85	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Benzo(a)anthracene	1.4	0.85	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Benzo(a)pyrene	1.5	0.85	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Benzo(b)fluoranthene	1.9	0.85	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Benzo(g,h,i)perylene	0.90	0.85	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Benzo(k)fluoranthene	ND	0.85	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Bis(2-chloroethoxy)methane	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Bis(2-chloroethyl)ether	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Bis(2-chloroisopropyl)ether	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Bis(2-Ethylhexyl)phthalate	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
4-Bromophenylphenylether	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Butylbenzylphthalate	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Carbazole	ND	0.85	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
4-Chloroaniline	ND	3.3	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
4-Chloro-3-methylphenol	ND	3.3	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
2-Chloronaphthalene	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
2-Chlorophenol	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
4-Chlorophenylphenylether	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Chrysene	1.6	0.85	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Dibenz(a,h)anthracene	ND	0.85	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Dibenzofuran	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Di-n-butylphthalate	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
3,3-Dichlorobenzidine	ND	0.85	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
2,4-Dichlorophenol	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Diethylphthalate	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
2,4-Dimethylphenol	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Dimethylphthalate	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
4,6-Dinitro-2-methylphenol	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
2,4-Dinitrophenol	ND	3.3	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
2,4-Dinitrotoluene	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
2,6-Dinitrotoluene	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Di-n-octylphthalate	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Fluoranthene	2.3	0.85	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Fluorene	ND	0.85	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Hexachlorobenzene	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Hexachlorobutadiene	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Hexachlorocyclopentadiene	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Hexachloroethane	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Indeno(1,2,3-cd)pyrene	0.95	0.85	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Isophorone	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
2-Methylnaphthalene	ND	0.85	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC13-SE-Dup1 Sampled: 8/29/2017 00:00

Sample ID: 17H1544-20

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
3/4-Methylphenol	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Naphthalene	ND	0.85	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
2-Nitroaniline	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
3-Nitroaniline	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
4-Nitroaniline	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Nitrobenzene	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
2-Nitrophenol	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
4-Nitrophenol	ND	3.3	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
N-Nitrosodiphenylamine	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
N-Nitrosodi-n-propylamine	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Pentachloronitrobenzene	ND	1.7	mg/Kg dry	4	V-16	SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Pentachlorophenol	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Phenanthrene	ND	0.85	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Phenol	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Pyrene	2.6	0.85	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
Pyridine	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
1,2,4,5-Tetrachlorobenzene	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
1,2,4-Trichlorobenzene	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
2,4,5-Trichlorophenol	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL
2,4,6-Trichlorophenol	ND	1.7	mg/Kg dry	4		SW-846 8270D	9/5/17	9/7/17 1:13	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	64.0	30-130		9/7/17 1:13
Phenol-d6	69.6	30-130		9/7/17 1:13
Nitrobenzene-d5	76.4	30-130		9/7/17 1:13
2-Fluorobiphenyl	63.6	30-130		9/7/17 1:13
2,4,6-Tribromophenol	89.5	30-130		9/7/17 1:13
p-Terphenyl-d14	83.2	30-130		9/7/17 1:13

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC13-SE-Dup1 Sampled: 8/29/2017 00:00

Sample ID: 17H1544-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	mg/Kg dry	8		SW-846 8082A	9/6/17	9/10/17 2:12	TG
Aroclor-1221 [1]	ND	0.20	mg/Kg dry	8		SW-846 8082A	9/6/17	9/10/17 2:12	TG
Aroclor-1232 [1]	ND	0.20	mg/Kg dry	8		SW-846 8082A	9/6/17	9/10/17 2:12	TG
Aroclor-1242 [1]	ND	0.20	mg/Kg dry	8		SW-846 8082A	9/6/17	9/10/17 2:12	TG
Aroclor-1248 [1]	ND	0.20	mg/Kg dry	8		SW-846 8082A	9/6/17	9/10/17 2:12	TG
Aroclor-1254 [1]	ND	0.20	mg/Kg dry	8		SW-846 8082A	9/6/17	9/10/17 2:12	TG
Aroclor-1260 [1]	1.6	0.20	mg/Kg dry	8		SW-846 8082A	9/6/17	9/10/17 2:12	TG
Aroclor-1262 [1]	ND	0.20	mg/Kg dry	8		SW-846 8082A	9/6/17	9/10/17 2:12	TG
Aroclor-1268 [1]	ND	0.20	mg/Kg dry	8		SW-846 8082A	9/6/17	9/10/17 2:12	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.2	30-150		9/10/17 2:12
Decachlorobiphenyl [2]	83.6	30-150		9/10/17 2:12
Tetrachloro-m-xylene [1]	85.0	30-150		9/10/17 2:12
Tetrachloro-m-xylene [2]	90.9	30-150		9/10/17 2:12

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC13-SE-Dup1 Sampled: 8/29/2017 00:00

Sample ID: 17H1544-20

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	560	250	mg/Kg dry	20		CTDEP ETPH	9/5/17	9/7/17 21:36	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	9/7/17 21:36

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC13-SE-Dup1 Sampled: 8/29/2017 00:00

Sample ID: 17H1544-20

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	18	3.1	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/7/17 17:57	QNW
Arsenic	16	3.1	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:55	QNW
Barium	70	3.1	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:55	QNW
Beryllium	ND	0.31	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/7/17 17:57	QNW
Cadmium	1.4	0.31	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/7/17 17:57	QNW
Chromium	91	0.63	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:55	QNW
Copper	410	0.63	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/7/17 17:57	QNW
Lead	180	0.94	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:55	QNW
Mercury	0.21	0.031	mg/Kg dry	1		SW-846 7471B	8/30/17	9/5/17 14:47	TJK
Nickel	150	0.63	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:55	QNW
Selenium	ND	6.3	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/7/17 17:57	QNW
Silver	ND	1.3	mg/Kg dry	2	DL-04	SW-846 6010C-D	9/5/17	9/11/17 16:09	QNW
Thallium	ND	3.1	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/11/17 16:14	QNW
Vanadium	470	1.3	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:55	QNW
Zinc	330	1.3	mg/Kg dry	1		SW-846 6010C-D	9/5/17	9/6/17 20:55	QNW

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1544

Date Received: 8/29/2017

Field Sample #: WS-AOC13-SE-Dup1 Sampled: 8/29/2017 00:00

Sample ID: 17H1544-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.2		% Wt	1		SM 2540G	8/31/17	9/1/17 8:37	MRL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1544-01 [WS-AOC13-SE-26]	B185490	30.0	1.00	09/05/17
17H1544-02 [WS-AOC13-SE-27]	B185490	30.0	1.00	09/05/17
17H1544-03 [WS-AOC13-SE-28]	B185490	30.0	1.00	09/05/17
17H1544-04 [WS-AOC13-SE-29]	B185490	30.0	1.00	09/05/17
17H1544-05 [WS-AOC13-SE-30]	B185490	30.0	1.00	09/05/17
17H1544-06 [WS-AOC13-SE-31]	B185490	30.0	1.00	09/05/17
17H1544-07 [WS-AOC3-SE-6]	B185490	30.0	1.00	09/05/17
17H1544-08 [WS-AOC8-SE-16]	B185490	30.0	2.00	09/05/17
17H1544-09 [WS-AOC8-SE-17]	B185490	30.0	2.00	09/05/17
17H1544-10 [AS-AOC8-SE-18]	B185490	30.0	2.00	09/05/17
17H1544-11 [WS-AOC8-SE-19]	B185490	30.0	1.00	09/05/17
17H1544-12 [WS-AOC8-SE-24]	B185490	30.0	2.00	09/05/17
17H1544-20 [WS-AOC13-SE-Dup1]	B185490	30.0	1.00	09/05/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17H1544-01 [WS-AOC13-SE-26]	B185325	08/31/17
17H1544-02 [WS-AOC13-SE-27]	B185325	08/31/17
17H1544-03 [WS-AOC13-SE-28]	B185325	08/31/17
17H1544-04 [WS-AOC13-SE-29]	B185325	08/31/17
17H1544-05 [WS-AOC13-SE-30]	B185325	08/31/17
17H1544-06 [WS-AOC13-SE-31]	B185325	08/31/17
17H1544-07 [WS-AOC3-SE-6]	B185325	08/31/17
17H1544-08 [WS-AOC8-SE-16]	B185325	08/31/17
17H1544-09 [WS-AOC8-SE-17]	B185325	08/31/17
17H1544-10 [AS-AOC8-SE-18]	B185325	08/31/17
17H1544-11 [WS-AOC8-SE-19]	B185325	08/31/17
17H1544-12 [WS-AOC8-SE-24]	B185325	08/31/17
17H1544-20 [WS-AOC13-SE-Dup1]	B185325	08/31/17

Prep Method: SW-846 3050B-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1544-01 [WS-AOC13-SE-26]	B185527	1.04	50.0	09/05/17
17H1544-02 [WS-AOC13-SE-27]	B185527	1.02	50.0	09/05/17
17H1544-03 [WS-AOC13-SE-28]	B185527	1.00	50.0	09/05/17
17H1544-04 [WS-AOC13-SE-29]	B185527	1.05	50.0	09/05/17
17H1544-05 [WS-AOC13-SE-30]	B185527	1.08	50.0	09/05/17
17H1544-06 [WS-AOC13-SE-31]	B185527	1.04	50.0	09/05/17
17H1544-07 [WS-AOC3-SE-6]	B185527	1.02	50.0	09/05/17
17H1544-08 [WS-AOC8-SE-16]	B185527	1.01	50.0	09/05/17
17H1544-09 [WS-AOC8-SE-17]	B185527	1.00	50.0	09/05/17
17H1544-10 [AS-AOC8-SE-18]	B185527	1.01	50.0	09/05/17
17H1544-11 [WS-AOC8-SE-19]	B185527	1.04	50.0	09/05/17
17H1544-12 [WS-AOC8-SE-24]	B185527	1.07	50.0	09/05/17
17H1544-20 [WS-AOC13-SE-Dup1]	B185527	0.996	50.0	09/05/17

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1544-01 [WS-AOC13-SE-26]	B185230	0.606	50.0	08/30/17
17H1544-02 [WS-AOC13-SE-27]	B185230	0.591	50.0	08/30/17
17H1544-03 [WS-AOC13-SE-28]	B185230	0.620	50.0	08/30/17
17H1544-04 [WS-AOC13-SE-29]	B185230	0.625	50.0	08/30/17
17H1544-05 [WS-AOC13-SE-30]	B185230	0.598	50.0	08/30/17
17H1544-06 [WS-AOC13-SE-31]	B185230	0.593	50.0	08/30/17
17H1544-07 [WS-AOC3-SE-6]	B185230	0.625	50.0	08/30/17
17H1544-08 [WS-AOC8-SE-16]	B185230	0.603	50.0	08/30/17
17H1544-09 [WS-AOC8-SE-17]	B185230	0.604	50.0	08/30/17
17H1544-10 [AS-AOC8-SE-18]	B185230	0.605	50.0	08/30/17
17H1544-11 [WS-AOC8-SE-19]	B185230	0.602	50.0	08/30/17
17H1544-12 [WS-AOC8-SE-24]	B185230	0.599	50.0	08/30/17
17H1544-20 [WS-AOC13-SE-Dup1]	B185230	0.605	50.0	08/30/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1544-13 [WS-AOC13-CO-26]	B185577	2.01	10.0	09/06/17
17H1544-14 [WS-AOC13-CO-27]	B185577	2.05	10.0	09/06/17
17H1544-15 [WS-AOC13-CO-29]	B185577	2.23	10.0	09/06/17
17H1544-16 [WS-AOC8-CO-16]	B185577	2.07	10.0	09/06/17
17H1544-17 [WS-AOC8-CO-17]	B185577	2.09	10.0	09/06/17
17H1544-18 [WS-AOC8-CO-18]	B185577	2.08	10.0	09/06/17
17H1544-19 [WS-AOC8-CO-19]	B185577	2.07	10.0	09/06/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1544-01 [WS-AOC13-SE-26]	B185576	10.0	10.0	09/06/17
17H1544-02 [WS-AOC13-SE-27]	B185576	10.3	10.0	09/06/17
17H1544-03 [WS-AOC13-SE-28]	B185576	10.1	10.0	09/06/17
17H1544-04 [WS-AOC13-SE-29]	B185576	10.0	10.0	09/06/17
17H1544-05 [WS-AOC13-SE-30]	B185576	10.0	10.0	09/06/17
17H1544-06 [WS-AOC13-SE-31]	B185576	10.2	10.0	09/06/17
17H1544-07 [WS-AOC3-SE-6]	B185576	10.1	10.0	09/06/17
17H1544-08 [WS-AOC8-SE-16]	B185576	10.2	10.0	09/06/17
17H1544-09 [WS-AOC8-SE-17]	B185576	10.2	10.0	09/06/17
17H1544-10 [AS-AOC8-SE-18]	B185576	10.3	10.0	09/06/17
17H1544-11 [WS-AOC8-SE-19]	B185576	10.0	10.0	09/06/17
17H1544-12 [WS-AOC8-SE-24]	B185576	10.2	10.0	09/06/17
17H1544-20 [WS-AOC13-SE-Dup1]	B185576	10.1	10.0	09/06/17

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
17H1544-07 [WS-AOC3-SE-6]	B185016	5.72	7.52	1	50	08/30/17
17H1544-12 [WS-AOC8-SE-24]	B185016	4.88	6.49	1	50	08/30/17

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Sample Extraction Data

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1544-01 [WS-AOC13-SE-26]	B185200	6.54	10.0	08/30/17
17H1544-02 [WS-AOC13-SE-27]	B185200	5.46	10.0	08/30/17
17H1544-03 [WS-AOC13-SE-28]	B185200	6.98	10.0	08/30/17
17H1544-04 [WS-AOC13-SE-29]	B185200	7.23	10.0	08/30/17
17H1544-05 [WS-AOC13-SE-30]	B185200	5.99	10.0	08/30/17
17H1544-06 [WS-AOC13-SE-31]	B185200	7.12	10.0	08/30/17
17H1544-08 [WS-AOC8-SE-16]	B185200	5.56	10.0	08/30/17
17H1544-09 [WS-AOC8-SE-17]	B185200	5.73	10.0	08/30/17
17H1544-10 [AS-AOC8-SE-18]	B185200	6.60	10.0	08/30/17
17H1544-11 [WS-AOC8-SE-19]	B185200	5.36	10.0	08/30/17
17H1544-20 [WS-AOC13-SE-Dup1]	B185200	6.80	10.0	08/30/17

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1544-01 [WS-AOC13-SE-26]	B185495	30.0	1.00	09/05/17
17H1544-02 [WS-AOC13-SE-27]	B185495	30.0	1.00	09/05/17
17H1544-03 [WS-AOC13-SE-28]	B185495	30.0	1.00	09/05/17
17H1544-03RE1 [WS-AOC13-SE-28]	B185495	30.0	1.00	09/05/17
17H1544-04 [WS-AOC13-SE-29]	B185495	30.0	1.00	09/05/17
17H1544-04RE1 [WS-AOC13-SE-29]	B185495	30.0	1.00	09/05/17
17H1544-05 [WS-AOC13-SE-30]	B185495	30.0	1.00	09/05/17
17H1544-05RE1 [WS-AOC13-SE-30]	B185495	30.0	1.00	09/05/17
17H1544-06 [WS-AOC13-SE-31]	B185495	30.0	1.00	09/05/17
17H1544-06RE1 [WS-AOC13-SE-31]	B185495	30.0	1.00	09/05/17
17H1544-07 [WS-AOC3-SE-6]	B185495	30.0	1.00	09/05/17
17H1544-08 [WS-AOC8-SE-16]	B185495	30.0	2.00	09/05/17
17H1544-08RE1 [WS-AOC8-SE-16]	B185495	30.0	2.00	09/05/17
17H1544-09 [WS-AOC8-SE-17]	B185495	30.0	2.00	09/05/17
17H1544-09RE1 [WS-AOC8-SE-17]	B185495	30.0	2.00	09/05/17
17H1544-10 [AS-AOC8-SE-18]	B185495	30.0	1.00	09/05/17
17H1544-10RE1 [AS-AOC8-SE-18]	B185495	30.0	1.00	09/05/17
17H1544-11 [WS-AOC8-SE-19]	B185495	30.0	1.00	09/05/17
17H1544-11RE1 [WS-AOC8-SE-19]	B185495	30.0	1.00	09/05/17
17H1544-11RE2 [WS-AOC8-SE-19]	B185495	30.0	1.00	09/05/17
17H1544-12 [WS-AOC8-SE-24]	B185495	30.0	2.00	09/05/17
17H1544-20 [WS-AOC13-SE-Dup1]	B185495	30.0	1.00	09/05/17

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185016 - SW-846 5035										
Blank (B185016-BLK1)				Prepared: 08/28/17 Analyzed: 09/05/17						
Acetone	ND	2.5	mg/Kg wet							
Acrylonitrile	ND	0.25	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Bromobenzene	ND	0.050	mg/Kg wet							
Bromodichloromethane	ND	0.050	mg/Kg wet							
Bromoform	ND	0.050	mg/Kg wet							
Bromomethane	ND	0.10	mg/Kg wet							
2-Butanone (MEK)	ND	1.0	mg/Kg wet							
n-Butylbenzene	ND	0.050	mg/Kg wet							
sec-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butylbenzene	ND	0.050	mg/Kg wet							
Carbon Disulfide	ND	0.15	mg/Kg wet							
Carbon Tetrachloride	ND	0.050	mg/Kg wet							
Chlorobenzene	ND	0.050	mg/Kg wet							
Chlorodibromomethane	ND	0.025	mg/Kg wet							
Chloroethane	ND	0.10	mg/Kg wet							
Chloroform	ND	0.10	mg/Kg wet							
Chloromethane	ND	0.10	mg/Kg wet							
2-Chlorotoluene	ND	0.050	mg/Kg wet							
4-Chlorotoluene	ND	0.050	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.25	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.025	mg/Kg wet							
Dibromomethane	ND	0.050	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.050	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.10	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.10	mg/Kg wet							
1,1-Dichloroethane	ND	0.050	mg/Kg wet							
1,2-Dichloroethane	ND	0.050	mg/Kg wet							
1,1-Dichloroethylene	ND	0.050	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
1,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,3-Dichloropropane	ND	0.025	mg/Kg wet							
2,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,1-Dichloropropene	ND	0.10	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
Hexachlorobutadiene	ND	0.050	mg/Kg wet							
2-Hexanone (MBK)	ND	0.50	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
Methylene Chloride	ND	0.25	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.50	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
n-Propylbenzene	ND	0.050	mg/Kg wet							
Styrene	ND	0.050	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B185016 - SW-846 5035											
Blank (B185016-BLK1)				Prepared: 08/28/17 Analyzed: 09/05/17							
Tetrachloroethylene	ND	0.050	mg/Kg wet								
Tetrahydrofuran	ND	0.50	mg/Kg wet								
Toluene	ND	0.050	mg/Kg wet								
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg wet								
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg wet								
1,1,1-Trichloroethane	ND	0.050	mg/Kg wet								
1,1,2-Trichloroethane	ND	0.050	mg/Kg wet								
Trichloroethylene	ND	0.050	mg/Kg wet								
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg wet								
1,2,3-Trichloropropane	ND	0.10	mg/Kg wet								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.050	mg/Kg wet								
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet								
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg wet								
Vinyl Chloride	ND	0.10	mg/Kg wet								
m+p Xylene	ND	0.10	mg/Kg wet								
o-Xylene	ND	0.050	mg/Kg wet								
Surrogate: 1,2-Dichloroethane-d4	*0.0275*		mg/Kg wet	0.0250		110		70-130			
Surrogate: Toluene-d8	*0.0253*		mg/Kg wet	0.0250		101		70-130			
Surrogate: 4-Bromofluorobenzene	*0.0231*		mg/Kg wet	0.0250		92.4		70-130			
LCS (B185016-BS1)				Prepared: 08/28/17 Analyzed: 09/05/17							
Acetone	0.125	0.057	mg/Kg wet	0.113		110		70-130			
Acrylonitrile	0.0123	0.0057	mg/Kg wet	0.0113		109		70-130			
Benzene	0.0126	0.0011	mg/Kg wet	0.0113		111		70-130			
Bromobenzene	0.0128	0.0011	mg/Kg wet	0.0113		113		70-130			
Bromodichloromethane	0.0128	0.0011	mg/Kg wet	0.0113		113		70-130			
Bromoform	0.0117	0.0011	mg/Kg wet	0.0113		104		70-130			
Bromomethane	0.0147	0.0023	mg/Kg wet	0.0113		129		70-130			
2-Butanone (MEK)	0.139	0.023	mg/Kg wet	0.113		123		70-130			
n-Butylbenzene	0.0142	0.0011	mg/Kg wet	0.0113		125		70-130			
sec-Butylbenzene	0.0133	0.0011	mg/Kg wet	0.0113		118		70-130			
tert-Butylbenzene	0.0132	0.0011	mg/Kg wet	0.0113		117		70-130			
Carbon Disulfide	0.140	0.0034	mg/Kg wet	0.113		124		70-130			
Carbon Tetrachloride	0.0131	0.0011	mg/Kg wet	0.0113		116		70-130			
Chlorobenzene	0.0120	0.0011	mg/Kg wet	0.0113		106		70-130			
Chlorodibromomethane	0.0137	0.00057	mg/Kg wet	0.0113		121		70-130			
Chloroethane	0.0130	0.0023	mg/Kg wet	0.0113		115		70-130			
Chloroform	0.0124	0.0023	mg/Kg wet	0.0113		109		70-130			
Chloromethane	0.0159	0.0023	mg/Kg wet	0.0113		**141**	*	70-130			L-01
2-Chlorotoluene	0.0108	0.0011	mg/Kg wet	0.0113		95.1		70-130			
4-Chlorotoluene	0.0120	0.0011	mg/Kg wet	0.0113		106		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0148	0.0057	mg/Kg wet	0.0113		**131**	*	70-130			L-01
1,2-Dibromoethane (EDB)	0.0127	0.00057	mg/Kg wet	0.0113		112		70-130			
Dibromomethane	0.0121	0.0011	mg/Kg wet	0.0113		107		70-130			
1,2-Dichlorobenzene	0.0131	0.0011	mg/Kg wet	0.0113		115		70-130			
1,3-Dichlorobenzene	0.0127	0.0011	mg/Kg wet	0.0113		112		70-130			
1,4-Dichlorobenzene	0.0119	0.0011	mg/Kg wet	0.0113		105		70-130			
trans-1,4-Dichloro-2-butene	0.0143	0.0023	mg/Kg wet	0.0113		126		70-130			
Dichlorodifluoromethane (Freon 12)	0.0139	0.0023	mg/Kg wet	0.0113		122		70-130			
1,1-Dichloroethane	0.0137	0.0011	mg/Kg wet	0.0113		121		70-130			
1,2-Dichloroethane	0.0120	0.0011	mg/Kg wet	0.0113		106		70-130			
1,1-Dichloroethylene	0.0130	0.0011	mg/Kg wet	0.0113		115		70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185016 - SW-846 5035										
LCS (B185016-BS1)				Prepared: 08/28/17 Analyzed: 09/05/17						
cis-1,2-Dichloroethylene	0.0130	0.0011	mg/Kg wet	0.0113		115	70-130			
trans-1,2-Dichloroethylene	0.0135	0.0011	mg/Kg wet	0.0113		119	70-130			
1,2-Dichloropropane	0.0116	0.0011	mg/Kg wet	0.0113		102	70-130			
1,3-Dichloropropane	0.0123	0.00057	mg/Kg wet	0.0113		108	70-130			
2,2-Dichloropropane	0.0130	0.0011	mg/Kg wet	0.0113		115	70-130			
1,1-Dichloropropene	0.0134	0.0023	mg/Kg wet	0.0113		118	70-130			
cis-1,3-Dichloropropene	0.0125	0.00057	mg/Kg wet	0.0113		110	70-130			
trans-1,3-Dichloropropene	0.0115	0.00057	mg/Kg wet	0.0113		101	70-130			
Ethylbenzene	0.0126	0.0011	mg/Kg wet	0.0113		111	70-130			
Hexachlorobutadiene	0.0131	0.0011	mg/Kg wet	0.0113		116	70-130			
2-Hexanone (MBK)	0.141	0.011	mg/Kg wet	0.113		124	70-130			
Isopropylbenzene (Cumene)	0.0124	0.0011	mg/Kg wet	0.0113		109	70-130			
p-Isopropyltoluene (p-Cymene)	0.0139	0.0011	mg/Kg wet	0.0113		122	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0122	0.0011	mg/Kg wet	0.0113		107	70-130			
Methylene Chloride	0.0125	0.0057	mg/Kg wet	0.0113		111	70-130			
4-Methyl-2-pentanone (MIBK)	0.131	0.011	mg/Kg wet	0.113		115	70-130			
Naphthalene	0.0133	0.0023	mg/Kg wet	0.0113		117	70-130			
n-Propylbenzene	0.0127	0.0011	mg/Kg wet	0.0113		112	70-130			
Styrene	0.0121	0.0011	mg/Kg wet	0.0113		107	70-130			
1,1,1,2-Tetrachloroethane	0.0124	0.0011	mg/Kg wet	0.0113		110	70-130			
1,1,2,2-Tetrachloroethane	0.0127	0.00057	mg/Kg wet	0.0113		112	70-130			
Tetrachloroethylene	0.0124	0.0011	mg/Kg wet	0.0113		109	70-130			
Tetrahydrofuran	0.0123	0.011	mg/Kg wet	0.0113		108	70-130			
Toluene	0.0122	0.0011	mg/Kg wet	0.0113		108	70-130			
1,2,3-Trichlorobenzene	0.0128	0.0057	mg/Kg wet	0.0113		113	70-130			
1,2,4-Trichlorobenzene	0.0130	0.0011	mg/Kg wet	0.0113		115	70-130			
1,1,1-Trichloroethane	0.0133	0.0011	mg/Kg wet	0.0113		117	70-130			
1,1,2-Trichloroethane	0.0126	0.0011	mg/Kg wet	0.0113		111	70-130			
Trichloroethylene	0.0124	0.0011	mg/Kg wet	0.0113		110	70-130			
Trichlorofluoromethane (Freon 11)	0.0126	0.0023	mg/Kg wet	0.0113		112	70-130			
1,2,3-Trichloropropane	0.0130	0.0023	mg/Kg wet	0.0113		114	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0124	0.0011	mg/Kg wet	0.0113		109	70-130			
1,2,4-Trimethylbenzene	0.0134	0.0011	mg/Kg wet	0.0113		118	70-130			
1,3,5-Trimethylbenzene	0.0127	0.0011	mg/Kg wet	0.0113		112	70-130			
Vinyl Chloride	0.0104	0.0023	mg/Kg wet	0.0113		92.2	70-130			
m+p Xylene	0.0253	0.0023	mg/Kg wet	0.0227		112	70-130			
o-Xylene	0.0125	0.0011	mg/Kg wet	0.0113		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0318*		mg/Kg wet	0.0283		112	70-130			
Surrogate: Toluene-d8	*0.0288*		mg/Kg wet	0.0283		102	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0274*		mg/Kg wet	0.0283		96.8	70-130			
Batch B185200 - SW-846 5035										
Blank (B185200-BLK1)				Prepared & Analyzed: 08/30/17						
Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185200 - SW-846 5035										
Blank (B185200-BLK1)				Prepared & Analyzed: 08/30/17						
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0040	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							V-16
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185200 - SW-846 5035										
Blank (B185200-BLK1)				Prepared & Analyzed: 08/30/17						
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0519*		mg/Kg wet	0.0500		104	70-130			
Surrogate: Toluene-d8	*0.0521*		mg/Kg wet	0.0500		104	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0507*		mg/Kg wet	0.0500		101	70-130			
LCS (B185200-BS1)				Prepared & Analyzed: 08/30/17						
Acetone	0.176	0.10	mg/Kg wet	0.200		88.2	70-130			
Acrylonitrile	0.0219	0.0060	mg/Kg wet	0.0200		109	70-130			
Benzene	0.0181	0.0020	mg/Kg wet	0.0200		90.7	70-130			
Bromobenzene	0.0163	0.0020	mg/Kg wet	0.0200		81.4	70-130			
Bromodichloromethane	0.0182	0.0020	mg/Kg wet	0.0200		91.1	70-130			
Bromoform	0.0172	0.0020	mg/Kg wet	0.0200		86.2	70-130			
Bromomethane	0.0196	0.010	mg/Kg wet	0.0200		97.9	70-130			
2-Butanone (MEK)	0.215	0.040	mg/Kg wet	0.200		108	70-130			
n-Butylbenzene	0.0172	0.0020	mg/Kg wet	0.0200		86.2	70-130			
sec-Butylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.4	70-130			
tert-Butylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.9	70-130			
Carbon Disulfide	0.203	0.0060	mg/Kg wet	0.200		102	70-130			
Carbon Tetrachloride	0.0188	0.0020	mg/Kg wet	0.0200		94.2	70-130			
Chlorobenzene	0.0170	0.0020	mg/Kg wet	0.0200		84.8	70-130			
Chlorodibromomethane	0.0203	0.0010	mg/Kg wet	0.0200		102	70-130			
Chloroethane	0.0158	0.020	mg/Kg wet	0.0200		79.1	70-130			
Chloroform	0.0185	0.0040	mg/Kg wet	0.0200		92.6	70-130			
Chloromethane	0.0194	0.010	mg/Kg wet	0.0200		97.2	70-130			
2-Chlorotoluene	0.0172	0.0020	mg/Kg wet	0.0200		86.0	70-130			
4-Chlorotoluene	0.0173	0.0020	mg/Kg wet	0.0200		86.4	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,2-Dibromoethane (EDB)	0.0207	0.0010	mg/Kg wet	0.0200		103	70-130			
Dibromomethane	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130			
1,2-Dichlorobenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.3	70-130			
1,3-Dichlorobenzene	0.0168	0.0020	mg/Kg wet	0.0200		84.1	70-130			
1,4-Dichlorobenzene	0.0178	0.0020	mg/Kg wet	0.0200		88.8	70-130			
trans-1,4-Dichloro-2-butene	0.0179	0.0040	mg/Kg wet	0.0200		89.7	70-130			
Dichlorodifluoromethane (Freon 12)	0.0227	0.020	mg/Kg wet	0.0200		113	70-130			
1,1-Dichloroethane	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130			
1,2-Dichloroethane	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130			
1,1-Dichloroethylene	0.0198	0.0040	mg/Kg wet	0.0200		98.8	70-130			
cis-1,2-Dichloroethylene	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130			
trans-1,2-Dichloroethylene	0.0236	0.0020	mg/Kg wet	0.0200		118	70-130			
1,2-Dichloropropane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
1,3-Dichloropropane	0.0194	0.0010	mg/Kg wet	0.0200		97.2	70-130			
2,2-Dichloropropane	0.0181	0.0020	mg/Kg wet	0.0200		90.3	70-130			
1,1-Dichloropropene	0.0180	0.0020	mg/Kg wet	0.0200		89.9	70-130			
cis-1,3-Dichloropropene	0.0183	0.0010	mg/Kg wet	0.0200		91.3	70-130			
trans-1,3-Dichloropropene	0.0199	0.0010	mg/Kg wet	0.0200		99.4	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185200 - SW-846 5035										
LCS (B185200-BS1)				Prepared & Analyzed: 08/30/17						
Ethylbenzene	0.0176	0.0020	mg/Kg wet	0.0200		87.8	70-130			
Hexachlorobutadiene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130			
2-Hexanone (MBK)	0.213	0.020	mg/Kg wet	0.200		106	70-130			
Isopropylbenzene (Cumene)	0.0179	0.0020	mg/Kg wet	0.0200		89.7	70-130			
p-Isopropyltoluene (p-Cymene)	0.0186	0.0020	mg/Kg wet	0.0200		92.9	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0184	0.0040	mg/Kg wet	0.0200		92.1	70-130			
Methylene Chloride	0.0221	0.020	mg/Kg wet	0.0200		111	70-130			
4-Methyl-2-pentanone (MIBK)	0.218	0.020	mg/Kg wet	0.200		109	70-130			
Naphthalene	0.0154	0.0040	mg/Kg wet	0.0200		76.8	70-130			
n-Propylbenzene	0.0171	0.0020	mg/Kg wet	0.0200		85.3	70-130			
Styrene	0.0170	0.0020	mg/Kg wet	0.0200		85.0	70-130			
1,1,1,2-Tetrachloroethane	0.0176	0.0020	mg/Kg wet	0.0200		87.9	70-130			
1,1,2,2-Tetrachloroethane	0.0160	0.0040	mg/Kg wet	0.0200		79.8	70-130			
Tetrachloroethylene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130			
Tetrahydrofuran	0.0178	0.010	mg/Kg wet	0.0200		88.9	70-130			V-16
Toluene	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130			
1,2,3-Trichlorobenzene	0.0167	0.0020	mg/Kg wet	0.0200		83.7	70-130			
1,2,4-Trichlorobenzene	0.0175	0.0020	mg/Kg wet	0.0200		87.6	70-130			
1,1,1-Trichloroethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
1,1,2-Trichloroethane	0.0182	0.0020	mg/Kg wet	0.0200		91.0	70-130			
Trichloroethylene	0.0195	0.0020	mg/Kg wet	0.0200		97.4	70-130			
Trichlorofluoromethane (Freon 11)	0.0238	0.010	mg/Kg wet	0.0200		119	70-130			
1,2,3-Trichloropropane	0.0188	0.0020	mg/Kg wet	0.0200		93.8	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0217	0.010	mg/Kg wet	0.0200		108	70-130			
1,2,4-Trimethylbenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130			
1,3,5-Trimethylbenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.5	70-130			
Vinyl Chloride	0.0175	0.010	mg/Kg wet	0.0200		87.3	70-130			
m+p Xylene	0.0349	0.0040	mg/Kg wet	0.0400		87.2	70-130			
o-Xylene	0.0176	0.0020	mg/Kg wet	0.0200		87.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0519*		mg/Kg wet	0.0500		104	70-130			
Surrogate: Toluene-d8	*0.0528*		mg/Kg wet	0.0500		106	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0518*		mg/Kg wet	0.0500		104	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185495 - SW-846 3546										
Blank (B185495-BLK1)				Prepared: 09/05/17 Analyzed: 09/06/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							

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QUALITY CONTROL

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185495 - SW-846 3546										
Blank (B185495-BLK1)				Prepared: 09/05/17 Analyzed: 09/06/17						
4-Nitrophenol	ND	0.66	mg/Kg wet							
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet							
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet							
Pentachloronitrobenzene	ND	0.34	mg/Kg wet							V-16
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.34	mg/Kg wet							
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	*4.54*		mg/Kg wet	6.67		68.2	30-130			
Surrogate: Phenol-d6	*4.69*		mg/Kg wet	6.67		70.4	30-130			
Surrogate: Nitrobenzene-d5	*2.33*		mg/Kg wet	3.33		69.8	30-130			
Surrogate: 2-Fluorobiphenyl	*2.42*		mg/Kg wet	3.33		72.5	30-130			
Surrogate: 2,4,6-Tribromophenol	*5.89*		mg/Kg wet	6.67		88.4	30-130			
Surrogate: p-Terphenyl-d14	*2.93*		mg/Kg wet	3.33		87.8	30-130			
LCS (B185495-BS1)				Prepared: 09/05/17 Analyzed: 09/06/17						
Acenaphthene	0.995	0.17	mg/Kg wet	1.67		59.7	40-140			
Acenaphthylene	0.972	0.17	mg/Kg wet	1.67		58.3	40-140			
Aniline	0.778	0.34	mg/Kg wet	1.67		46.7	40-140			†
Anthracene	1.06	0.17	mg/Kg wet	1.67		63.3	40-140			
Benzo(a)anthracene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140			
Benzo(a)pyrene	1.12	0.17	mg/Kg wet	1.67		67.4	40-140			
Benzo(b)fluoranthene	1.07	0.17	mg/Kg wet	1.67		64.5	40-140			
Benzo(g,h,i)perylene	1.17	0.17	mg/Kg wet	1.67		70.0	40-140			
Benzo(k)fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140			
Bis(2-chloroethoxy)methane	1.21	0.34	mg/Kg wet	1.67		72.8	40-140			
Bis(2-chloroethyl)ether	1.05	0.34	mg/Kg wet	1.67		63.2	40-140			
Bis(2-chloroisopropyl)ether	1.17	0.34	mg/Kg wet	1.67		70.2	40-140			
Bis(2-Ethylhexyl)phthalate	1.18	0.34	mg/Kg wet	1.67		70.6	40-140			
4-Bromophenylphenylether	1.26	0.34	mg/Kg wet	1.67		75.7	40-140			
Butylbenzylphthalate	1.23	0.34	mg/Kg wet	1.67		73.5	40-140			
Carbazole	1.05	0.17	mg/Kg wet	1.67		62.7	40-140			
4-Chloroaniline	0.694	0.66	mg/Kg wet	1.67		41.7	40-140			†
4-Chloro-3-methylphenol	1.16	0.66	mg/Kg wet	1.67		69.7	30-130			
2-Chloronaphthalene	1.02	0.34	mg/Kg wet	1.67		61.2	40-140			
2-Chlorophenol	1.08	0.34	mg/Kg wet	1.67		64.8	30-130			
4-Chlorophenylphenylether	1.18	0.34	mg/Kg wet	1.67		70.8	40-140			
Chrysene	1.08	0.17	mg/Kg wet	1.67		64.8	40-140			
Dibenz(a,h)anthracene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140			
Dibenzofuran	1.09	0.34	mg/Kg wet	1.67		65.4	40-140			
Di-n-butylphthalate	1.14	0.34	mg/Kg wet	1.67		68.3	40-140			
3,3-Dichlorobenzidine	1.04	0.17	mg/Kg wet	1.67		62.2	40-140			†
2,4-Dichlorophenol	1.17	0.34	mg/Kg wet	1.67		70.2	30-130			
Diethylphthalate	1.15	0.34	mg/Kg wet	1.67		69.1	40-140			
2,4-Dimethylphenol	1.12	0.34	mg/Kg wet	1.67		67.2	30-130			
Dimethylphthalate	1.15	0.34	mg/Kg wet	1.67		69.2	40-140			
4,6-Dinitro-2-methylphenol	0.926	0.34	mg/Kg wet	1.67		55.6	30-130			

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QUALITY CONTROL

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B185495 - SW-846 3546											
LCS (B185495-BS1)				Prepared: 09/05/17 Analyzed: 09/06/17							
2,4-Dinitrophenol	0.597	0.66	mg/Kg wet	1.67		35.8	30-130				
2,4-Dinitrotoluene	1.22	0.34	mg/Kg wet	1.67		72.9	40-140				
2,6-Dinitrotoluene	1.22	0.34	mg/Kg wet	1.67		73.0	40-140				
Di-n-octylphthalate	1.11	0.34	mg/Kg wet	1.67		66.5	40-140				
Fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140				
Fluorene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140				
Hexachlorobenzene	1.32	0.34	mg/Kg wet	1.67		79.5	40-140				
Hexachlorobutadiene	1.18	0.34	mg/Kg wet	1.67		71.1	40-140				
Hexachlorocyclopentadiene	0.940	0.34	mg/Kg wet	1.67		56.4	30-140				
Hexachloroethane	1.02	0.34	mg/Kg wet	1.67		61.0	40-140				
Indeno(1,2,3-cd)pyrene	1.17	0.17	mg/Kg wet	1.67		69.9	40-140				
Isophorone	1.21	0.34	mg/Kg wet	1.67		72.6	40-140				
2-Methylnaphthalene	1.10	0.17	mg/Kg wet	1.67		65.9	40-140				
2-Methylphenol	1.01	0.34	mg/Kg wet	1.67		60.8	30-130				
3/4-Methylphenol	1.10	0.34	mg/Kg wet	1.67		65.7	30-130				
Naphthalene	1.02	0.17	mg/Kg wet	1.67		61.2	40-140				
2-Nitroaniline	1.20	0.34	mg/Kg wet	1.67		71.9	40-140				
3-Nitroaniline	0.969	0.34	mg/Kg wet	1.67		58.2	40-140				†
4-Nitroaniline	1.04	0.34	mg/Kg wet	1.67		62.6	40-140				
Nitrobenzene	1.21	0.34	mg/Kg wet	1.67		72.7	40-140				
2-Nitrophenol	1.08	0.34	mg/Kg wet	1.67		64.6	30-130				
4-Nitrophenol	1.44	0.66	mg/Kg wet	1.67		86.2	10-130				
N-Nitrosodiphenylamine	1.39	0.34	mg/Kg wet	1.67		83.6	40-140				
N-Nitrosodi-n-propylamine	1.13	0.34	mg/Kg wet	1.67		67.9	40-140				
Pentachloronitrobenzene	1.32	0.34	mg/Kg wet	1.67		79.3	40-140			V-16	
Pentachlorophenol	0.930	0.34	mg/Kg wet	1.67		55.8	30-130				
Phenanthrene	1.08	0.17	mg/Kg wet	1.67		64.8	40-140				
Phenol	1.14	0.34	mg/Kg wet	1.67		68.4	20-130				
Pyrene	1.15	0.17	mg/Kg wet	1.67		68.7	40-140				
Pyridine	0.669	0.34	mg/Kg wet	1.67		40.2	10-140				†
1,2,4,5-Tetrachlorobenzene	1.12	0.34	mg/Kg wet	1.67		67.0	40-140				
1,2,4-Trichlorobenzene	1.16	0.34	mg/Kg wet	1.67		69.4	40-140				
2,4,5-Trichlorophenol	1.12	0.34	mg/Kg wet	1.67		67.4	30-130				
2,4,6-Trichlorophenol	1.15	0.34	mg/Kg wet	1.67		69.0	30-130				
Surrogate: 2-Fluorophenol	*4.68*		mg/Kg wet	6.67		70.2	30-130				
Surrogate: Phenol-d6	*4.81*		mg/Kg wet	6.67		72.2	30-130				
Surrogate: Nitrobenzene-d5	*2.43*		mg/Kg wet	3.33		72.9	30-130				
Surrogate: 2-Fluorobiphenyl	*2.43*		mg/Kg wet	3.33		72.8	30-130				
Surrogate: 2,4,6-Tribromophenol	*6.33*		mg/Kg wet	6.67		94.9	30-130				
Surrogate: p-Terphenyl-d14	*2.81*		mg/Kg wet	3.33		84.4	30-130				
LCS Dup (B185495-BSD1)				Prepared: 09/05/17 Analyzed: 09/06/17							
Acenaphthene	0.972	0.17	mg/Kg wet	1.67		58.3	40-140	2.27	30		
Acenaphthylene	0.938	0.17	mg/Kg wet	1.67		56.3	40-140	3.52	30		
Aniline	0.734	0.34	mg/Kg wet	1.67		44.0	40-140	5.91	50		† ‡
Anthracene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140	2.92	30		
Benzo(a)anthracene	1.08	0.17	mg/Kg wet	1.67		64.5	40-140	4.96	30		
Benzo(a)pyrene	1.06	0.17	mg/Kg wet	1.67		63.7	40-140	5.65	30		
Benzo(b)fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.2	40-140	5.29	30		
Benzo(g,h,i)perylene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140	6.52	30		
Benzo(k)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	4.77	30		
Bis(2-chloroethoxy)methane	1.17	0.34	mg/Kg wet	1.67		70.1	40-140	3.81	30		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185495 - SW-846 3546										
LCS Dup (B185495-BSD1)				Prepared: 09/05/17 Analyzed: 09/06/17						
Bis(2-chloroethyl)ether	1.07	0.34	mg/Kg wet	1.67		64.3	40-140	1.76	30	
Bis(2-chloroisopropyl)ether	1.12	0.34	mg/Kg wet	1.67		67.1	40-140	4.58	30	
Bis(2-Ethylhexyl)phthalate	1.13	0.34	mg/Kg wet	1.67		67.7	40-140	4.25	30	
4-Bromophenylphenylether	1.22	0.34	mg/Kg wet	1.67		73.3	40-140	3.22	30	
Butylbenzylphthalate	1.15	0.34	mg/Kg wet	1.67		69.0	40-140	6.31	30	
Carbazole	0.997	0.17	mg/Kg wet	1.67		59.8	40-140	4.77	30	
4-Chloroaniline	0.693	0.66	mg/Kg wet	1.67		41.6	40-140	0.240	30	†
4-Chloro-3-methylphenol	1.10	0.66	mg/Kg wet	1.67		66.0	30-130	5.51	30	
2-Chloronaphthalene	0.996	0.34	mg/Kg wet	1.67		59.8	40-140	2.35	30	
2-Chlorophenol	1.03	0.34	mg/Kg wet	1.67		61.6	30-130	5.06	30	
4-Chlorophenylphenylether	1.12	0.34	mg/Kg wet	1.67		67.0	40-140	5.52	30	
Chrysene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140	5.32	30	
Dibenz(a,h)anthracene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140	4.48	30	
Dibenzofuran	1.06	0.34	mg/Kg wet	1.67		63.6	40-140	2.76	30	
Di-n-butylphthalate	1.09	0.34	mg/Kg wet	1.67		65.2	40-140	4.73	30	
3,3-Dichlorobenzidine	1.03	0.17	mg/Kg wet	1.67		61.7	40-140	0.775	30	† ‡
2,4-Dichlorophenol	1.13	0.34	mg/Kg wet	1.67		67.6	30-130	3.78	30	
Diethylphthalate	1.11	0.34	mg/Kg wet	1.67		66.5	40-140	3.86	30	
2,4-Dimethylphenol	1.07	0.34	mg/Kg wet	1.67		64.2	30-130	4.56	30	
Dimethylphthalate	1.12	0.34	mg/Kg wet	1.67		67.0	40-140	3.26	50	
4,6-Dinitro-2-methylphenol	0.902	0.34	mg/Kg wet	1.67		54.1	30-130	2.70	50	
2,4-Dinitrophenol	0.607	0.66	mg/Kg wet	1.67		36.4	30-130	1.66	50	
2,4-Dinitrotoluene	1.17	0.34	mg/Kg wet	1.67		70.2	40-140	3.77	30	
2,6-Dinitrotoluene	1.18	0.34	mg/Kg wet	1.67		70.7	40-140	3.20	30	
Di-n-octylphthalate	1.06	0.34	mg/Kg wet	1.67		63.6	40-140	4.43	30	
Fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.4	40-140	3.16	30	
Fluorene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140	4.70	30	
Hexachlorobenzene	1.31	0.34	mg/Kg wet	1.67		78.7	40-140	0.986	30	
Hexachlorobutadiene	1.16	0.34	mg/Kg wet	1.67		69.7	40-140	1.99	30	
Hexachlorocyclopentadiene	0.928	0.34	mg/Kg wet	1.67		55.7	30-140	1.29	50	
Hexachloroethane	1.01	0.34	mg/Kg wet	1.67		60.7	40-140	0.460	50	
Indeno(1,2,3-cd)pyrene	1.12	0.17	mg/Kg wet	1.67		67.4	40-140	3.70	50	
Isophorone	1.16	0.34	mg/Kg wet	1.67		69.4	40-140	4.45	30	
2-Methylnaphthalene	1.06	0.17	mg/Kg wet	1.67		63.9	40-140	3.17	30	
2-Methylphenol	0.976	0.34	mg/Kg wet	1.67		58.6	30-130	3.72	30	
3/4-Methylphenol	1.04	0.34	mg/Kg wet	1.67		62.2	30-130	5.57	30	
Naphthalene	0.977	0.17	mg/Kg wet	1.67		58.6	40-140	4.28	30	
2-Nitroaniline	1.18	0.34	mg/Kg wet	1.67		71.0	40-140	1.26	30	
3-Nitroaniline	0.932	0.34	mg/Kg wet	1.67		55.9	40-140	3.89	30	†
4-Nitroaniline	1.04	0.34	mg/Kg wet	1.67		62.2	40-140	0.641	30	
Nitrobenzene	1.15	0.34	mg/Kg wet	1.67		69.0	40-140	5.28	30	
2-Nitrophenol	1.07	0.34	mg/Kg wet	1.67		64.0	30-130	0.809	30	
4-Nitrophenol	1.42	0.66	mg/Kg wet	1.67		85.5	10-130	0.769	50	‡
N-Nitrosodiphenylamine	1.32	0.34	mg/Kg wet	1.67		79.2	40-140	5.43	30	
N-Nitrosodi-n-propylamine	1.10	0.34	mg/Kg wet	1.67		65.9	40-140	3.05	30	
Pentachloronitrobenzene	1.30	0.34	mg/Kg wet	1.67		78.1	40-140	1.55	30	V-16
Pentachlorophenol	0.905	0.34	mg/Kg wet	1.67		54.3	30-130	2.76	50	
Phenanthrene	1.05	0.17	mg/Kg wet	1.67		62.7	40-140	3.26	30	
Phenol	1.08	0.34	mg/Kg wet	1.67		64.6	20-130	5.71	30	
Pyrene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140	5.53	30	
Pyridine	0.631	0.34	mg/Kg wet	1.67		37.8	10-140	5.95	50	†
1,2,4,5-Tetrachlorobenzene	1.07	0.34	mg/Kg wet	1.67		64.5	40-140	3.80	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B185495 - SW-846 3546											
LCS Dup (B185495-BSD1)				Prepared: 09/05/17 Analyzed: 09/06/17							
1,2,4-Trichlorobenzene	1.12	0.34	mg/Kg wet	1.67		67.1		40-140	3.37	30	
2,4,5-Trichlorophenol	1.10	0.34	mg/Kg wet	1.67		66.3		30-130	1.68	30	
2,4,6-Trichlorophenol	1.12	0.34	mg/Kg wet	1.67		67.2		30-130	2.55	50	
Surrogate: 2-Fluorophenol	*4.53*		mg/Kg wet	6.67		68.0		30-130			
Surrogate: Phenol-d6	*4.56*		mg/Kg wet	6.67		68.5		30-130			
Surrogate: Nitrobenzene-d5	*2.32*		mg/Kg wet	3.33		69.6		30-130			
Surrogate: 2-Fluorobiphenyl	*2.36*		mg/Kg wet	3.33		70.7		30-130			
Surrogate: 2,4,6-Tribromophenol	*6.14*		mg/Kg wet	6.67		92.0		30-130			
Surrogate: p-Terphenyl-d14	*2.62*		mg/Kg wet	3.33		78.6		30-130			
Matrix Spike (B185495-MS1)		**Source: 17H1544-05**		Prepared: 09/05/17 Analyzed: 09/07/17							
Acenaphthene	1.16	0.75	mg/Kg dry	1.83	0.285	47.6		40-140			R-06
Acenaphthylene	0.956	0.75	mg/Kg dry	1.83	ND	52.2		40-140			
Aniline	0.533	1.5	mg/Kg dry	1.83	ND	**29.1**	*	40-140			MS-09
Anthracene	1.80	0.75	mg/Kg dry	1.83	0.945	46.9		40-140			R-06
Benzo(a)anthracene	9.37	0.75	mg/Kg dry	1.83	10.3	**-50.2**	*	40-140			MS-09, R-06
Benzo(a)pyrene	7.57	0.75	mg/Kg dry	1.83	8.83	**-68.8**	*	40-140			MS-08, R-06
Benzo(b)fluoranthene	10.6	0.75	mg/Kg dry	1.83	12.7	**-116**	*	40-140			MS-08, R-06
Benzo(g,h,i)perylene	3.79	0.75	mg/Kg dry	1.83	5.30	**-82.4**	*	40-140			MS-09
Benzo(k)fluoranthene	4.50	0.75	mg/Kg dry	1.83	4.86	**-19.7**	*	40-140			MS-08, R-06
Bis(2-chloroethoxy)methane	1.05	1.5	mg/Kg dry	1.83	ND	57.3		40-140			
Bis(2-chloroethyl)ether	0.992	1.5	mg/Kg dry	1.83	ND	54.2		40-140			
Bis(2-chloroisopropyl)ether	1.07	1.5	mg/Kg dry	1.83	ND	58.6		40-140			
Bis(2-Ethylhexyl)phthalate	1.60	1.5	mg/Kg dry	1.83	ND	87.7		40-140			
4-Bromophenylphenylether	1.06	1.5	mg/Kg dry	1.83	ND	58.1		40-140			
Butylbenzylphthalate	1.23	1.5	mg/Kg dry	1.83	ND	67.4		40-140			
Carbazole	1.89	0.75	mg/Kg dry	1.83	0.767	61.2		40-140			R-06
4-Chloroaniline	0.741	2.9	mg/Kg dry	1.83	ND	40.5		40-140			
4-Chloro-3-methylphenol	1.06	2.9	mg/Kg dry	1.83	ND	58.1		30-130			
2-Chloronaphthalene	0.944	1.5	mg/Kg dry	1.83	ND	51.6		40-140			
2-Chlorophenol	0.972	1.5	mg/Kg dry	1.83	ND	53.1		30-130			
4-Chlorophenylphenylether	1.02	1.5	mg/Kg dry	1.83	ND	55.8		40-140			
Chrysene	10.2	0.75	mg/Kg dry	1.83	10.9	**-41.0**	*	40-140			MS-09, R-06
Dibenz(a,h)anthracene	1.51	0.75	mg/Kg dry	1.83	1.38	**7.28**	*	40-140			MS-09
Dibenzofuran	1.13	1.5	mg/Kg dry	1.83	ND	61.8		40-140			
Di-n-butylphthalate	1.07	1.5	mg/Kg dry	1.83	ND	58.2		40-140			
3,3-Dichlorobenzidine	0.899	0.75	mg/Kg dry	1.83	ND	49.1		40-140			
2,4-Dichlorophenol	0.986	1.5	mg/Kg dry	1.83	ND	53.9		30-130			
Diethylphthalate	1.04	1.5	mg/Kg dry	1.83	ND	56.7		40-140			
2,4-Dimethylphenol	0.869	1.5	mg/Kg dry	1.83	ND	47.5		30-130			
Dimethylphthalate	1.02	1.5	mg/Kg dry	1.83	ND	55.9		40-140			
4,6-Dinitro-2-methylphenol	0.752	1.5	mg/Kg dry	1.83	ND	41.1		30-130			
2,4-Dinitrophenol	0.844	2.9	mg/Kg dry	1.83	ND	46.2		30-130			
2,4-Dinitrotoluene	0.885	1.5	mg/Kg dry	1.83	ND	48.4		40-140			
2,6-Dinitrotoluene	0.932	1.5	mg/Kg dry	1.83	ND	51.0		40-140			
Di-n-octylphthalate	1.07	1.5	mg/Kg dry	1.83	ND	58.4		40-140			
Fluoranthene	21.7	0.75	mg/Kg dry	1.83	24.1	**-132**	*	40-140			MS-09, R-06
Fluorene	1.14	0.75	mg/Kg dry	1.83	ND	62.5		40-140			
Hexachlorobenzene	1.09	1.5	mg/Kg dry	1.83	ND	59.4		40-140			
Hexachlorobutadiene	1.09	1.5	mg/Kg dry	1.83	ND	59.8		40-140			
Hexachlorocyclopentadiene	ND	1.5	mg/Kg dry	1.83	ND		*	40-140			MS-09
Hexachloroethane	0.719	1.5	mg/Kg dry	1.83	ND	**39.3**	*	40-140			MS-09

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B185495 - SW-846 3546												
Matrix Spike (B185495-MS1)		**Source: 17H1544-05**		Prepared: 09/05/17 Analyzed: 09/07/17								
Indeno(1,2,3-cd)pyrene	4.23	0.75	mg/Kg dry	1.83	5.57	**-73.0**	*	40-140				MS-09, R-06
Isophorone	1.07	1.5	mg/Kg dry	1.83	ND	58.7		40-140				
2-Methylnaphthalene	1.06	0.75	mg/Kg dry	1.83	ND	57.8		40-140				
2-Methylphenol	0.880	1.5	mg/Kg dry	1.83	ND	48.1		30-130				
3/4-Methylphenol	0.967	1.5	mg/Kg dry	1.83	ND	52.9		30-130				
Naphthalene	1.01	0.75	mg/Kg dry	1.83	ND	55.3		40-140				
2-Nitroaniline	1.19	1.5	mg/Kg dry	1.83	ND	65.0		40-140				
3-Nitroaniline	1.06	1.5	mg/Kg dry	1.83	ND	57.8		40-140				
4-Nitroaniline	1.10	1.5	mg/Kg dry	1.83	ND	59.9		40-140				
Nitrobenzene	1.09	1.5	mg/Kg dry	1.83	ND	59.5		40-140				
2-Nitrophenol	0.722	1.5	mg/Kg dry	1.83	ND	39.4		30-130				
4-Nitrophenol	1.23	2.9	mg/Kg dry	1.83	ND	67.1		30-130				
N-Nitrosodiphenylamine	1.23	1.5	mg/Kg dry	1.83	ND	67.0		40-140				
N-Nitrosodi-n-propylamine	1.05	1.5	mg/Kg dry	1.83	ND	57.1		40-140				
Pentachloronitrobenzene	0.998	1.5	mg/Kg dry	1.83	ND	54.6		40-140				V-16
Pentachlorophenol	0.574	1.5	mg/Kg dry	1.83	ND	31.4		30-130				
Phenanthrene	8.64	0.75	mg/Kg dry	1.83	6.77	102		40-140				R-06
Phenol	0.985	1.5	mg/Kg dry	1.83	ND	53.8		30-130				
Pyrene	22.2	0.75	mg/Kg dry	1.83	21.8	**23.4**	*	40-140				MS-09, R-06
Pyridine	0.553	1.5	mg/Kg dry	1.83	ND	**30.2**	*	40-140				MS-09
1,2,4,5-Tetrachlorobenzene	0.913	1.5	mg/Kg dry	1.83	ND	49.9		40-140				
1,2,4-Trichlorobenzene	1.03	1.5	mg/Kg dry	1.83	ND	56.2		40-140				
2,4,5-Trichlorophenol	0.957	1.5	mg/Kg dry	1.83	ND	52.3		30-130				
2,4,6-Trichlorophenol	0.997	1.5	mg/Kg dry	1.83	ND	54.5		30-130				
Surrogate: 2-Fluorophenol	*3.86*		mg/Kg dry	7.32		52.8		30-130				
Surrogate: Phenol-d6	*3.98*		mg/Kg dry	7.32		54.4		30-130				
Surrogate: Nitrobenzene-d5	*2.18*		mg/Kg dry	3.66		59.6		30-130				
Surrogate: 2-Fluorobiphenyl	*2.00*		mg/Kg dry	3.66		54.8		30-130				
Surrogate: 2,4,6-Tribromophenol	*4.66*		mg/Kg dry	7.32		63.6		30-130				
Surrogate: p-Terphenyl-d14	*2.64*		mg/Kg dry	3.66		72.1		30-130				
Matrix Spike Dup (B185495-MSD1)		**Source: 17H1544-05**		Prepared: 09/05/17 Analyzed: 09/07/17								
Acenaphthene	1.76	0.75	mg/Kg dry	1.83	0.285	80.7		40-140	**41.5**	*	30	R-06
Acenaphthylene	0.981	0.75	mg/Kg dry	1.83	ND	53.6		40-140	2.57		30	
Aniline	0.534	1.5	mg/Kg dry	1.83	ND	**29.2**	*	40-140	0.274		30	MS-09
Anthracene	3.23	0.75	mg/Kg dry	1.83	0.945	125		40-140	**56.6**	*	30	R-06
Benzo(a)anthracene	14.2	0.75	mg/Kg dry	1.83	10.3	**212**	*	40-140	**40.7**	*	30	MS-09, R-06
Benzo(a)pyrene	10.7	0.75	mg/Kg dry	1.83	8.83	104		40-140	**34.6**	*	30	R-06
Benzo(b)fluoranthene	15.0	0.75	mg/Kg dry	1.83	12.7	122		40-140	**34.2**	*	30	R-06
Benzo(g,h,i)perylene	5.02	0.75	mg/Kg dry	1.83	5.30	**-15.4**	*	40-140	27.8		30	MS-09
Benzo(k)fluoranthene	6.29	0.75	mg/Kg dry	1.83	4.86	77.8		40-140	**33.1**	*	30	R-06
Bis(2-chloroethoxy)methane	1.08	1.5	mg/Kg dry	1.83	ND	59.3		40-140	3.43		30	
Bis(2-chloroethyl)ether	1.02	1.5	mg/Kg dry	1.83	ND	55.7		40-140	2.62		30	
Bis(2-chloroisopropyl)ether	1.06	1.5	mg/Kg dry	1.83	ND	58.0		40-140	0.961		30	
Bis(2-Ethylhexyl)phthalate	1.60	1.5	mg/Kg dry	1.83	ND	87.6		40-140	0.0913		30	
4-Bromophenylphenylether	1.01	1.5	mg/Kg dry	1.83	ND	55.0		40-140	5.52		30	
Butylbenzylphthalate	1.26	1.5	mg/Kg dry	1.83	ND	68.8		40-140	2.12		30	
Carbazole	2.85	0.75	mg/Kg dry	1.83	0.767	114		40-140	**40.8**	*	30	R-06
4-Chloroaniline	0.751	2.9	mg/Kg dry	1.83	ND	41.0		40-140	1.37		30	
4-Chloro-3-methylphenol	1.05	2.9	mg/Kg dry	1.83	ND	57.4		30-130	1.25		30	
2-Chloronaphthalene	0.926	1.5	mg/Kg dry	1.83	ND	50.6		40-140	1.88		30	
2-Chlorophenol	0.924	1.5	mg/Kg dry	1.83	ND	50.5		30-130	5.10		30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B185495 - SW-846 3546												
Matrix Spike Dup (B185495-MSD1)		**Source: 17H1544-05**		Prepared: 09/05/17 Analyzed: 09/07/17								
4-Chlorophenylphenylether	0.975	1.5	mg/Kg dry	1.83	ND	53.3		40-140	4.69		30	
Chrysene	15.1	0.75	mg/Kg dry	1.83	10.9	**229**	*	40-140	**39.0**	*	30	MS-09, R-06
Dibenz(a,h)anthracene	1.87	0.75	mg/Kg dry	1.83	1.38	**26.6**	*	40-140	21.0		30	MS-09
Dibenzofuran	1.45	1.5	mg/Kg dry	1.83	ND	79.1		40-140	24.6		30	
Di-n-butylphthalate	1.03	1.5	mg/Kg dry	1.83	ND	56.3		40-140	3.35		30	
3,3-Dichlorobenzidine	0.821	0.75	mg/Kg dry	1.83	ND	44.9		40-140	9.02		30	
2,4-Dichlorophenol	1.03	1.5	mg/Kg dry	1.83	ND	56.2		30-130	4.07		30	
Diethylphthalate	1.03	1.5	mg/Kg dry	1.83	ND	56.1		40-140	1.13		30	
2,4-Dimethylphenol	0.844	1.5	mg/Kg dry	1.83	ND	46.2		30-130	2.90		30	
Dimethylphthalate	1.01	1.5	mg/Kg dry	1.83	ND	55.4		40-140	1.01		30	
4,6-Dinitro-2-methylphenol	0.749	1.5	mg/Kg dry	1.83	ND	41.0		30-130			30	
2,4-Dinitrophenol	0.840	2.9	mg/Kg dry	1.83	ND	45.9		30-130			30	
2,4-Dinitrotoluene	0.881	1.5	mg/Kg dry	1.83	ND	48.2		40-140	0.497		30	
2,6-Dinitrotoluene	0.921	1.5	mg/Kg dry	1.83	ND	50.3		40-140	1.26		30	
Di-n-octylphthalate	1.06	1.5	mg/Kg dry	1.83	ND	58.1		40-140	0.549		30	
Fluoranthene	39.0	0.75	mg/Kg dry	1.83	24.1	**810**	*	40-140	**56.8**	*	30	MS-09, R-06
Fluorene	1.53	0.75	mg/Kg dry	1.83	ND	83.7		40-140	29.0		30	
Hexachlorobenzene	1.09	1.5	mg/Kg dry	1.83	ND	59.6		40-140	0.269		30	
Hexachlorobutadiene	1.03	1.5	mg/Kg dry	1.83	ND	56.6		40-140	5.64		30	
Hexachlorocyclopentadiene	ND	1.5	mg/Kg dry	1.83	ND		*	40-140	NC		30	MS-09
Hexachloroethane	0.686	1.5	mg/Kg dry	1.83	ND	**37.5**	*	40-140	4.58		30	MS-09
Indeno(1,2,3-cd)pyrene	5.80	0.75	mg/Kg dry	1.83	5.57	**12.8**	*	40-140	**31.3**	*	30	MS-09, R-06
Isophorone	1.09	1.5	mg/Kg dry	1.83	ND	59.4		40-140	1.08		30	
2-Methylnaphthalene	1.07	0.75	mg/Kg dry	1.83	ND	58.4		40-140	1.10		30	
2-Methylphenol	0.846	1.5	mg/Kg dry	1.83	ND	46.2		30-130	3.90		30	
3/4-Methylphenol	0.943	1.5	mg/Kg dry	1.83	ND	51.5		30-130	2.61		30	
Naphthalene	1.07	0.75	mg/Kg dry	1.83	ND	58.6		40-140	5.90		30	
2-Nitroaniline	1.16	1.5	mg/Kg dry	1.83	ND	63.3		40-140	2.74		30	
3-Nitroaniline	1.03	1.5	mg/Kg dry	1.83	ND	56.4		40-140	2.52		30	
4-Nitroaniline	1.15	1.5	mg/Kg dry	1.83	ND	62.8		40-140	4.69		30	
Nitrobenzene	1.14	1.5	mg/Kg dry	1.83	ND	62.2		40-140	4.34		30	
2-Nitrophenol	0.667	1.5	mg/Kg dry	1.83	ND	36.5		30-130	7.80		30	
4-Nitrophenol	1.24	2.9	mg/Kg dry	1.83	ND	67.8		30-130	0.949		30	
N-Nitrosodiphenylamine	1.16	1.5	mg/Kg dry	1.83	ND	63.4		40-140	5.64		30	
N-Nitrosodi-n-propylamine	1.03	1.5	mg/Kg dry	1.83	ND	56.2		40-140	1.55		30	
Pentachloronitrobenzene	0.935	1.5	mg/Kg dry	1.83	ND	51.1		40-140	6.51		30	V-16
Pentachlorophenol	0.542	1.5	mg/Kg dry	1.83	ND	**29.6**	*	30-130	5.77		30	MS-08
Phenanthrene	20.0	0.75	mg/Kg dry	1.83	6.77	**721**	*	40-140	**79.2**	*	30	MS-08, R-06
Phenol	0.922	1.5	mg/Kg dry	1.83	ND	50.4		30-130	6.60		30	
Pyrene	37.9	0.75	mg/Kg dry	1.83	21.8	**879**	*	40-140	**52.2**	*	30	MS-09, R-06
Pyridine	0.634	1.5	mg/Kg dry	1.83	ND	**34.6**	*	40-140	13.6		30	MS-09
1,2,4,5-Tetrachlorobenzene	0.925	1.5	mg/Kg dry	1.83	ND	50.6		40-140	1.27		30	
1,2,4-Trichlorobenzene	1.01	1.5	mg/Kg dry	1.83	ND	55.0		40-140	2.30		30	
2,4,5-Trichlorophenol	0.907	1.5	mg/Kg dry	1.83	ND	49.6		30-130	5.34		30	
2,4,6-Trichlorophenol	0.899	1.5	mg/Kg dry	1.83	ND	49.1		30-130	10.3		30	
Surrogate: 2-Fluorophenol	*3.82*		mg/Kg dry	7.32		52.2		30-130				
Surrogate: Phenol-d6	*4.00*		mg/Kg dry	7.32		54.6		30-130				
Surrogate: Nitrobenzene-d5	*2.22*		mg/Kg dry	3.66		60.6		30-130				
Surrogate: 2-Fluorobiphenyl	*2.07*		mg/Kg dry	3.66		56.4		30-130				
Surrogate: 2,4,6-Tribromophenol	*4.67*		mg/Kg dry	7.32		63.8		30-130				
Surrogate: p-Terphenyl-d14	*2.67*		mg/Kg dry	3.66		73.1		30-130				

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185576 - SW-846 3540C										
Blank (B185576-BLK1)				Prepared: 09/06/17 Analyzed: 09/09/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.214*		mg/Kg wet	0.200		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.206*		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene	*0.209*		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.209*		mg/Kg wet	0.200		105	30-150			
LCS (B185576-BS1)				Prepared: 09/06/17 Analyzed: 09/09/17						
Aroclor-1016	0.20	0.020	mg/Kg wet	0.200		101	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		95.4	40-140			
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		88.1	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.3	40-140			
Surrogate: Decachlorobiphenyl	*0.209*		mg/Kg wet	0.200		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.204*		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene	*0.206*		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.206*		mg/Kg wet	0.200		103	30-150			
LCS Dup (B185576-BSD1)				Prepared: 09/06/17 Analyzed: 09/09/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		95.0	40-140	6.46	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		90.1	40-140	5.67	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.8	40-140	9.91	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		73.5	40-140	10.0	30	
Surrogate: Decachlorobiphenyl	*0.179*		mg/Kg wet	0.200		89.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.175*		mg/Kg wet	0.200		87.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.193*		mg/Kg wet	0.200		96.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.196*		mg/Kg wet	0.200		98.2	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B185576 - SW-846 3540C											
Matrix Spike (B185576-MS1)		**Source: 17H1544-01**		Prepared: 09/06/17 Analyzed: 09/10/17							
Aroclor-1016	0.32	0.46	mg/Kg dry	0.228	ND	139		40-140			
Aroclor-1016 [2C]	0.32	0.46	mg/Kg dry	0.228	ND	140		40-140			
Aroclor-1260	1.8	0.46	mg/Kg dry	0.228	1.7	46.8		40-140			MS-19
Aroclor-1260 [2C]	1.8	0.46	mg/Kg dry	0.228	1.7	41.5		40-140			MS-19
Surrogate: Decachlorobiphenyl	*0.183*		mg/Kg dry	0.228		80.4		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.210*		mg/Kg dry	0.228		92.3		30-150			
Surrogate: Tetrachloro-m-xylene	*0.210*		mg/Kg dry	0.228		92.2		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.232*		mg/Kg dry	0.228		102		30-150			
Matrix Spike Dup (B185576-MSD1)		**Source: 17H1544-01**		Prepared: 09/06/17 Analyzed: 09/10/17							
Aroclor-1016	0.27	0.45	mg/Kg dry	0.226	ND	118		40-140	17.6	50	
Aroclor-1016 [2C]	0.30	0.45	mg/Kg dry	0.226	ND	132		40-140	6.89	50	
Aroclor-1260	1.4	0.45	mg/Kg dry	0.226	1.7	**-158**	*	40-140	28.9	50	MS-19
Aroclor-1260 [2C]	1.4	0.45	mg/Kg dry	0.226	1.7	**-154**	*	40-140	28.0	50	MS-19
Surrogate: Decachlorobiphenyl	*0.179*		mg/Kg dry	0.226		79.2		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.223*		mg/Kg dry	0.226		98.7		30-150			
Surrogate: Tetrachloro-m-xylene	*0.195*		mg/Kg dry	0.226		86.4		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.216*		mg/Kg dry	0.226		96.0		30-150			
Batch B185577 - SW-846 3540C											
Blank (B185577-BLK1)				Prepared: 09/06/17 Analyzed: 09/09/17							
Aroclor-1016	ND	0.10	mg/Kg								
Aroclor-1016 [2C]	ND	0.10	mg/Kg								
Aroclor-1221	ND	0.10	mg/Kg								
Aroclor-1221 [2C]	ND	0.10	mg/Kg								
Aroclor-1232	ND	0.10	mg/Kg								
Aroclor-1232 [2C]	ND	0.10	mg/Kg								
Aroclor-1242	ND	0.10	mg/Kg								
Aroclor-1242 [2C]	ND	0.10	mg/Kg								
Aroclor-1248	ND	0.10	mg/Kg								
Aroclor-1248 [2C]	ND	0.10	mg/Kg								
Aroclor-1254	ND	0.10	mg/Kg								
Aroclor-1254 [2C]	ND	0.10	mg/Kg								
Aroclor-1260	ND	0.10	mg/Kg								
Aroclor-1260 [2C]	ND	0.10	mg/Kg								
Aroclor-1262	ND	0.10	mg/Kg								
Aroclor-1262 [2C]	ND	0.10	mg/Kg								
Aroclor-1268	ND	0.10	mg/Kg								
Aroclor-1268 [2C]	ND	0.10	mg/Kg								
Surrogate: Decachlorobiphenyl	*1.01*		mg/Kg	1.00		101		30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.12*		mg/Kg	1.00		112		30-150			
Surrogate: Tetrachloro-m-xylene	*0.888*		mg/Kg	1.00		88.8		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.941*		mg/Kg	1.00		94.1		30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185577 - SW-846 3540C										
LCS (B185577-BS1)				Prepared: 09/06/17 Analyzed: 09/09/17						
Aroclor-1016	0.97	0.10	mg/Kg	1.00		96.5	40-140			
Aroclor-1016 [2C]	1.0	0.10	mg/Kg	1.00		104	40-140			
Aroclor-1260	0.92	0.10	mg/Kg	1.00		92.2	40-140			
Aroclor-1260 [2C]	1.0	0.10	mg/Kg	1.00		99.8	40-140			
Surrogate: Decachlorobiphenyl	*1.08*		mg/Kg	1.00		108	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.22*		mg/Kg	1.00		122	30-150			
Surrogate: Tetrachloro-m-xylene	*0.957*		mg/Kg	1.00		95.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.01*		mg/Kg	1.00		101	30-150			
LCS Dup (B185577-BSD1)				Prepared: 09/06/17 Analyzed: 09/09/17						
Aroclor-1016	0.92	0.10	mg/Kg	1.00		92.4	40-140	4.34	30	
Aroclor-1016 [2C]	1.0	0.10	mg/Kg	1.00		102	40-140	1.96	30	
Aroclor-1260	0.91	0.10	mg/Kg	1.00		90.7	40-140	1.61	30	
Aroclor-1260 [2C]	0.99	0.10	mg/Kg	1.00		98.8	40-140	1.02	30	
Surrogate: Decachlorobiphenyl	*1.07*		mg/Kg	1.00		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.20*		mg/Kg	1.00		120	30-150			
Surrogate: Tetrachloro-m-xylene	*0.929*		mg/Kg	1.00		92.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.987*		mg/Kg	1.00		98.7	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185490 - SW-846 3546										
Blank (B185490-BLK1)				Prepared: 09/05/17 Analyzed: 09/07/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.17*		mg/Kg wet	3.33		95.2	50-150			
LCS (B185490-BS1)				Prepared: 09/05/17 Analyzed: 09/07/17						
CT ETPH	23.1	10	mg/Kg wet	33.3		69.3	60-120			
Surrogate: o-Terphenyl	*3.34*		mg/Kg wet	3.33		100	50-150			
LCS Dup (B185490-BSD1)				Prepared: 09/05/17 Analyzed: 09/07/17						
CT ETPH	23.0	10	mg/Kg wet	33.3		69.1	60-120	0.254	30	
Surrogate: o-Terphenyl	*3.11*		mg/Kg wet	3.33		93.2	50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185230 - SW-846 7471										
Blank (B185230-BLK1)				Prepared: 08/30/17 Analyzed: 09/05/17						
Mercury	ND	0.025	mg/Kg wet							
LCS (B185230-BS1)				Prepared: 08/30/17 Analyzed: 09/05/17						
Mercury	9.79	2.0	mg/Kg wet	9.36		105	73.7-126.3			
LCS Dup (B185230-BSD1)				Prepared: 08/30/17 Analyzed: 09/05/17						
Mercury	11.2	1.9	mg/Kg wet	9.36		119	73.7-126.3	13.2	30	
Duplicate (B185230-DUP1)		**Source: 17H1544-01**		Prepared: 08/30/17 Analyzed: 09/05/17						
Mercury	0.123	0.028	mg/Kg dry		0.119			3.15	35	
Matrix Spike (B185230-MS1)		**Source: 17H1544-01**		Prepared: 08/30/17 Analyzed: 09/05/17						
Mercury	0.312	0.028	mg/Kg dry	0.186	0.119	104	75-125			
Batch B185527 - SW-846 3050B										
Blank (B185527-BLK1)				Prepared: 09/05/17 Analyzed: 09/06/17						
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							
LCS (B185527-BS1)				Prepared: 09/05/17 Analyzed: 09/06/17						
Antimony	64.8	4.8	mg/Kg wet	146		44.4	0-210.3			
Arsenic	144	4.8	mg/Kg wet	157		91.7	77.8-122.1			
Barium	312	4.8	mg/Kg wet	339		92.1	82-117.4			
Beryllium	54.0	0.48	mg/Kg wet	58.3		92.7	82.3-117.7			
Cadmium	193	0.48	mg/Kg wet	216		89.3	81.9-118.2			
Chromium	82.1	0.96	mg/Kg wet	88.9		92.3	78.7-120.6			
Copper	173	0.96	mg/Kg wet	184		94.2	80.4-119.6			
Lead	87.7	1.4	mg/Kg wet	94.3		93.0	82.4-117.8			
Nickel	143	0.96	mg/Kg wet	154		92.8	82.2-117.8			
Selenium	184	9.6	mg/Kg wet	207		89.1	77.1-122.3			
Silver	40.7	0.96	mg/Kg wet	43.8		92.9	74.3-125.4			
Thallium	144	4.8	mg/Kg wet	167		86.3	78.2-121.6			
Vanadium	82.7	1.9	mg/Kg wet	100		82.7	64.8-135.2			
Zinc	201	1.9	mg/Kg wet	209		96.0	79.7-120.8			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185527 - SW-846 3050B										
LCS Dup (B185527-BSD1)				Prepared: 09/05/17 Analyzed: 09/06/17						
Antimony	64.4	5.0	mg/Kg wet	146		44.1	0-210.3	0.641	30	
Arsenic	139	5.0	mg/Kg wet	157		88.5	77.8-122.1	3.60	30	
Barium	304	5.0	mg/Kg wet	339		89.5	82-117.4	2.82	30	
Beryllium	53.2	0.50	mg/Kg wet	58.3		91.2	82.3-117.7	1.63	30	
Cadmium	189	0.50	mg/Kg wet	216		87.7	81.9-118.2	1.76	30	
Chromium	79.5	1.0	mg/Kg wet	88.9		89.5	78.7-120.6	3.14	30	
Copper	170	1.0	mg/Kg wet	184		92.6	80.4-119.6	1.71	30	
Lead	87.2	1.5	mg/Kg wet	94.3		92.4	82.4-117.8	0.599	30	
Nickel	139	1.0	mg/Kg wet	154		90.3	82.2-117.8	2.69	30	
Selenium	177	10	mg/Kg wet	207		85.3	77.1-122.3	4.30	30	
Silver	40.0	1.0	mg/Kg wet	43.8		91.4	74.3-125.4	1.69	30	
Thallium	141	5.0	mg/Kg wet	167		84.6	78.2-121.6	1.99	30	
Vanadium	81.7	2.0	mg/Kg wet	100		81.7	64.8-135.2	1.26	30	
Zinc	196	2.0	mg/Kg wet	209		93.8	79.7-120.8	2.31	30	
MRL Check (B185527-MRL1)				Prepared: 09/05/17 Analyzed: 09/06/17						
Lead	0.901	0.75	mg/Kg wet	0.750		120	80-120			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185325 - % Solids										
Duplicate (B185325-DUP3)		**Source: 17H1544-01**		Prepared: 08/31/17 Analyzed: 09/01/17						
% Solids	85.1		% Wt		87.8			3.12	20	
Duplicate (B185325-DUP4)		**Source: 17H1544-02**		Prepared: 08/31/17 Analyzed: 09/01/17						
% Solids	59.0		% Wt		60.2			2.01	20	

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SE-26

Lab Sample ID: 17H1544-01

Date(s) Analyzed: 09/09/2017 09/09/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	1.7	
	2	0.000	-0.030	0.030	1.7	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SE-27

Lab Sample ID: 17H1544-02

Date(s) Analyzed: 09/09/2017 09/09/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	5.0	
	2	0.000	-0.030	0.030	4.9	2.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SE-28

Lab Sample ID: 17H1544-03

Date(s) Analyzed: 09/09/2017 09/09/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.26	
	2	0.000	-0.030	0.030	0.26	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SE-29

Lab Sample ID: 17H1544-04

Date(s) Analyzed: 09/09/2017 09/09/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.40	
	2	0.000	-0.030	0.030	0.40	0.0
Aroclor-1268	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.13	26.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SE-30

Lab Sample ID: 17H1544-05

Date(s) Analyzed: 09/09/2017 09/09/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.46	
	2	0.000	-0.030	0.030	0.43	6.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SE-31

Lab Sample ID: 17H1544-06

Date(s) Analyzed: 09/10/2017 09/10/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	9.8	
	2	0.000	-0.030	0.030	9.2	6.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC3-SE-6

Lab Sample ID: 17H1544-07

Date(s) Analyzed: 09/10/2017 09/10/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	7.5	
	2	0.000	-0.030	0.030	7.1	5.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC8-SE-16

Lab Sample ID: 17H1544-08

Date(s) Analyzed: 09/10/2017 09/10/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	2300	
	2	0.000	-0.030	0.030	2100	9.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC8-SE-17

Lab Sample ID: 17H1544-09

Date(s) Analyzed: 09/10/2017 09/10/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	14	
	2	0.000	-0.030	0.030	13	7.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

AS-AOC8-SE-18

Lab Sample ID: 17H1544-10

Date(s) Analyzed: 09/10/2017 09/10/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	5.7	
	2	0.000	-0.030	0.030	5.5	3.6

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC8-SE-19

Lab Sample ID: 17H1544-11

Date(s) Analyzed: 09/10/2017 09/10/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	1.5	
	2	0.000	-0.030	0.030	1.4	6.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC8-SE-24

Lab Sample ID: 17H1544-12

Date(s) Analyzed: 09/10/2017 09/10/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.32	
	2	0.000	-0.030	0.030	0.32	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-CO-26

Lab Sample ID: 17H1544-13

Date(s) Analyzed: 09/09/2017 09/09/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	0.000	0.000	0.96	
	2	0.000	0.000	0.000	1.1	13.6

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-CO-27

Lab Sample ID: 17H1544-14

Date(s) Analyzed: 09/09/2017 09/09/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	0.000	0.000	0.85	
	2	0.000	0.000	0.000	0.93	9.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-CO-29

Lab Sample ID: 17H1544-15

Date(s) Analyzed: 09/09/2017 09/09/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	0.000	0.000	2.7	
	2	0.000	0.000	0.000	2.9	7.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC8-CO-16

Lab Sample ID: 17H1544-16

Date(s) Analyzed: 09/09/2017 09/09/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	0.000	0.000	1700	
	2	0.000	0.000	0.000	1800	5.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC8-CO-17

Lab Sample ID: 17H1544-17

Date(s) Analyzed: 09/09/2017 09/09/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	0.000	0.000	1.9	
	2	0.000	0.000	0.000	1.7	11.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC8-CO-18

Lab Sample ID: 17H1544-18

Date(s) Analyzed: 09/09/2017 09/09/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	0.000	0.000	2.0	
	2	0.000	0.000	0.000	1.9	5.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC8-CO-19

Lab Sample ID: 17H1544-19

Date(s) Analyzed: 09/09/2017 09/09/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	0.000	0.000	0.74	
	2	0.000	0.000	0.000	0.79	6.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SE-Dup1

Lab Sample ID: 17H1544-20 Date(s) Analyzed: 09/10/2017 09/10/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	1.6	
	2	0.000	-0.030	0.030	1.5	6.5

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
DL-04	Elevated reporting limit due to high concentration of an interfering analyte(s).
E	Reported result is estimated. Value reported over verified calibration range.
L-01	Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
MS-08	Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
RL-12	Elevated reporting limit due to matrix interference.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
Chloromethane	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
Dibromomethane	NH,NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
trans-1,4-Dichloro-2-butene	NY
Dichlorodifluoromethane (Freon 12)	NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME

con-test® ANALYTICAL LABORATORY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
p-Isopropyltoluene (p-Cymene)	NH,NY
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NY
Methylene Chloride	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Acenaphthylene	CT,NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodiphenylamine	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachloronitrobenzene	NY
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

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con-test ANALYTICAL LABORATORY

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Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs (soil/Lt)	TPH	RSR 15 Metals	SVOCs	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC13-SE-26	8/29/17	0900		X	S	U	X	X	X	X	X			
2	WS-AOC13-SE-27	↓	0930		↓	↓	↓	X	X	X	X	X			
3	WS-AOC13-SE-28		0945					X	X	X	X	X			
4	WS-AOC13-SE-29		1000					X	X	X	X	X			
5	WS-AOC13-SE-30		1015					X	X	X	X	X			
6	WS-AOC13-SE-31		1030					X	X	X	X	X			
7	WS-AOC3-SE-6		1045					X	X	X	X	X			
8	WS-AOC8-SE-16		1200					X	X	X	X	X			
9	WS-AOC8-SE-17		1215					X	X	X	X	X			
10	WS-AOC8-SE-18	↓	1230		↓	↓	↓	X	X	X	X	X			

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) 8/29/17	Date/Time:
Received by: (signature)	Date/Time: 8/29/17 1505
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time: 8/29/17 1720
Relinquished by: (signature)	Date/Time: 8/29/17 530
Received by: (signature) 2-4	Date/Time: 8/29/17 1730

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information 8/29/17 1730
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID #

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs (soxhlet)	ETPH	RCRA 15 metals	SVOCs	VOCs						# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC8-SE-19	8/29/17	1245		X	S	U	X	X	X	X	X								
12	WS-AOC8-SE-24		1300		X	S	U	X	X	X	X	X								
13	WS-AOC13-Co-26		910			O		X												
14	WS-AOC13-Co-27		940					X												
15	WS-AOC13-Co-29		1005					X												
16	WS-AOC8-Co-16		1205					X												
17	WS-AOC8-Co-17		1220					X												
18	WS-AOC8-Co-18		1235					X												
19	WS-AOC8-Co-19		1250					X												
20	WS-AOC13-SE-Dup1		—			S		X	X	X	X	X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) Concrete

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) 8/29/17	Date/Time:
Received by: (signature)	Date/Time: 8/29/17 1505
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time: 8/29/17 1421
Relinquished by: (signature)	Date/Time: 8/29/17 5:24
Received by: (signature) 2.4	Date/Time: 8/29/17 1730

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
8/29/17 1730
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By JM Date 8/29/17 Time 1730

How were the samples received? In Cooler T No Cooler ___ On Ice T No Ice ___
Direct from Sampling ___ Ambient ___ Melted Ice ___

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 2.4
By Blank # ___ Actual Temp - ___

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A Who was notified? ___
Are there Rushes? N/A Who was notified? ___
Are there Short Holds? N/A Who was notified? ___
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? N/A
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A
Do all samples have the proper pH? N/A Acid ___ Base ___

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	26
Meoh-	13	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	7
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-	26	Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen: 8/29/17 1730	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\A090817\A0908004.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/8/17
Data File Name	A0908004.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	541174	590138	-8
c - 10	1.64	549205	590138	-7
c - 12	2.37	570790	590138	-3
c - 14	3.04	588545	590138	0
c - 16	3.65	606275	590138	3
c - 18	4.29	603163	590138	2
o-Terphenyl	4.57	671009	590138	
c - 20	4.89	614278	590138	4
c - 22	5.40	628020	590138	6
c - 24	5.83	588777	590138	0
c - 26	6.23	620968	590138	5
c - 28	6.59	612017	590138	4
c - 30	6.92	601286	590138	2
c - 32	7.24	579458	590138	-2
c - 34	7.53	575320	590138	-3
c - 36	7.87	572788	590138	-3

* One compound allowed %D <= 50%

Samples

17H1660-05@10X
17H1544-02@10X

D:\HPCHEM\1\DATA\A090717.SEC\A0907051.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/7/17
Data File Name	A0907051.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	492390	513022	-4
c - 10	1.62	497817	513022	-3
c - 12	2.34	511550	513022	0
c - 14	3.01	521030	513022	2
c - 16	3.61	531350	513022	4
c - 18	4.23	523098	513022	2
o-Terphenyl	4.51	581697	513022	
c - 20	4.83	527200	513022	3
c - 22	5.34	533805	513022	4
c - 24	5.77	500511	513022	-2
c - 26	6.17	522595	513022	2
c - 28	6.52	515407	513022	0
c - 30	6.86	512082	513022	0
c - 32	7.17	498488	513022	-3
c - 34	7.46	502952	513022	-2
c - 36	7.77	505050	513022	-2

* One compound allowed %D <= 50%

Samples

17H1544-01@20X
17H1544-03@50X
17H1544-04@50X
17H1544-05@50X
17H1544-06@50X
17H1544-07@50X
17H1544-08@50X
17H1544-09@50X
17H1544-10@50X
17H1544-12@50X
17H1544-20@20X

D:\HPCHEM\1\DATA\A090717.SEC\A0907107.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/8/17
Data File Name	A0907107.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	633604	668690	-5
c - 10	1.63	642603	668690	-4
c - 12	2.35	661457	668690	-1
c - 14	3.01	675114	668690	1
c - 16	3.61	691044	668690	3
c - 18	4.23	682814	668690	2
o-Terphenyl	4.51	760564	668690	
c - 20	4.83	689419	668690	3
c - 22	5.34	698070	668690	4
c - 24	5.77	652285	668690	-2
c - 26	6.17	681611	668690	2
c - 28	6.52	673200	668690	1
c - 30	6.86	670545	668690	0
c - 32	7.16	656318	668690	-2
c - 34	7.46	660463	668690	-1
c - 36	7.77	661808	668690	-1

* One compound allowed %D <= 50%

Samples

17H1579-01RE1
17H1544-11
17H1621-18@20X

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17H1544

Laboratory Sample ID(s):

17H1544-01 thru 17H1544-20

Sample Date(s):

08/29/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 7470A, SW-846 7471B, SW-846 8082A, SW-846 8260C, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☐ Yes ☑ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☑ Yes ☐ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **09/12/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 11, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17H1605

Enclosed are results of analyses for samples received by the laboratory on August 30, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/11/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H1605

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC3-SO-1-2	17H1605-01	Soil		SM 2540G	
				SW-846 6020A-B	
WS-AOC3-SO-1-3	17H1605-02	Soil		SM 2540G	
				SW-846 6020A-B	
WS-AOC3-SO-2-2	17H1605-03	Soil		SM 2540G	
				SW-846 6020A-B	
WS-AOC3-SO-2-3	17H1605-04	Soil		SM 2540G	
				SW-846 6020A-B	
WS-AOC3-SO-2-4	17H1605-05	Soil		SM 2540G	
				SW-846 6020A-B	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6020, only a select list of metals was requested and reported.

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1605

Date Received: 8/30/2017

Field Sample #: WS-AOC3-SO-1-2 Sampled: 8/1/2017 10:05

Sample ID: 17H1605-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.3		% Wt	1		SM 2540G	8/31/17	8/31/17 10:33	MRL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1605

Date Received: 8/30/2017

Field Sample #: WS-AOC3-SO-1-2 Sampled: 8/1/2017 10:05

Sample ID: 17H1605-01

Sample Matrix: Soil

SPLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	ND	5.0	µg/L	5		SW-846 6020A-B	9/6/17	9/8/17 20:51	WSD
Lead	ND	5.0	µg/L	5		SW-846 6020A-B	9/6/17	9/8/17 20:51	WSD
Vanadium	ND	25	µg/L	5		SW-846 6020A-B	9/6/17	9/8/17 20:51	WSD

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1605

Date Received: 8/30/2017

Field Sample #: WS-AOC3-SO-1-3 Sampled: 8/1/2017 10:10

Sample ID: 17H1605-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.2		% Wt	1		SM 2540G	8/31/17	8/31/17 10:33	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1605

Date Received: 8/30/2017

Field Sample #: WS-AOC3-SO-1-3 Sampled: 8/1/2017 10:10

Sample ID: 17H1605-02

Sample Matrix: Soil

SPLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	ND	5.0	µg/L	5		SW-846 6020A-B	9/7/17	9/7/17 14:55	WSD
Chromium	ND	5.0	µg/L	5		SW-846 6020A-B	9/6/17	9/8/17 20:54	WSD
Lead	ND	5.0	µg/L	5		SW-846 6020A-B	9/7/17	9/7/17 14:55	WSD
Lead	ND	5.0	µg/L	5		SW-846 6020A-B	9/6/17	9/8/17 20:54	WSD
Nickel	ND	25	µg/L	5		SW-846 6020A-B	9/7/17	9/7/17 14:55	WSD
Nickel	ND	25	µg/L	5		SW-846 6020A-B	9/6/17	9/8/17 20:54	WSD
Vanadium	ND	25	µg/L	5		SW-846 6020A-B	9/6/17	9/8/17 20:54	WSD

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1605

Date Received: 8/30/2017

Field Sample #: WS-AOC3-SO-2-2 Sampled: 8/1/2017 10:30

Sample ID: 17H1605-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.0		% Wt	1		SM 2540G	8/31/17	8/31/17 10:33	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1605

Date Received: 8/30/2017

Field Sample #: WS-AOC3-SO-2-2 Sampled: 8/1/2017 10:30

Sample ID: 17H1605-03

Sample Matrix: Soil

SPLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	ND	5.0	µg/L	5		SW-846 6020A-B	9/6/17	9/7/17 20:23	WSD
Vanadium	27	25	µg/L	5		SW-846 6020A-B	9/6/17	9/7/17 20:23	WSD

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1605

Date Received: 8/30/2017

Field Sample #: WS-AOC3-SO-2-3 Sampled: 8/1/2017 10:34

Sample ID: 17H1605-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	57.6		% Wt	1		SM 2540G	8/31/17	8/31/17 10:33	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1605

Date Received: 8/30/2017

Field Sample #: WS-AOC3-SO-2-3 Sampled: 8/1/2017 10:34

Sample ID: 17H1605-04

Sample Matrix: Soil

SPLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Beryllium	ND	2.0	µg/L	5		SW-846 6020A-B	9/6/17	9/7/17 20:34	WSD
Chromium	ND	5.0	µg/L	5		SW-846 6020A-B	9/6/17	9/7/17 20:34	WSD
Lead	ND	5.0	µg/L	5		SW-846 6020A-B	9/6/17	9/7/17 20:34	WSD
Vanadium	ND	25	µg/L	5		SW-846 6020A-B	9/6/17	9/7/17 20:34	WSD

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1605

Date Received: 8/30/2017

Field Sample #: WS-AOC3-SO-2-4 Sampled: 8/1/2017 10:38

Sample ID: 17H1605-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	57.0		% Wt	1		SM 2540G	8/31/17	8/31/17 10:33	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1605

Date Received: 8/30/2017

Field Sample #: WS-AOC3-SO-2-4 Sampled: 8/1/2017 10:38

Sample ID: 17H1605-05

Sample Matrix: Soil

SPLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Beryllium	ND	2.0	µg/L	5		SW-846 6020A-B	9/6/17	9/7/17 20:37	WSD
Chromium	ND	5.0	µg/L	5		SW-846 6020A-B	9/6/17	9/7/17 20:37	WSD
Lead	ND	5.0	µg/L	5		SW-846 6020A-B	9/6/17	9/7/17 20:37	WSD
Vanadium	ND	25	µg/L	5		SW-846 6020A-B	9/6/17	9/7/17 20:37	WSD

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17H1605-01 [WS-AOC3-SO-1-2]	B183482	08/31/17
17H1605-02 [WS-AOC3-SO-1-3]	B183482	08/31/17
17H1605-03 [WS-AOC3-SO-2-2]	B183482	08/31/17
17H1605-04 [WS-AOC3-SO-2-3]	B183482	08/31/17
17H1605-05 [WS-AOC3-SO-2-4]	B183482	08/31/17

Prep Method: SW-846 3010A-SW-846 6020A-B **Leachates were extracted on 9/5/2017 per SW-846 1312 in Batch B185509**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1605-01 [WS-AOC3-SO-1-2]	B185650	50.0	50.0	09/06/17
17H1605-02 [WS-AOC3-SO-1-3]	B185650	50.0	50.0	09/06/17
17H1605-03 [WS-AOC3-SO-2-2]	B185650	50.0	50.0	09/06/17
17H1605-04 [WS-AOC3-SO-2-3]	B185650	50.0	50.0	09/06/17
17H1605-05 [WS-AOC3-SO-2-4]	B185650	50.0	50.0	09/06/17

Prep Method: SW-846 3010A-SW-846 6020A-B **Leachates were extracted on 9/5/2017 per SW-846 1312 in Batch B185509**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1605-02RE1 [WS-AOC3-SO-1-3]	B185720	50.0	50.0	09/07/17

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QUALITY CONTROL

SPLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185650 - SW-846 3010A										
Blank (B185650-BLK1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Beryllium	ND	2.0	µg/L							
Chromium	ND	5.0	µg/L							
Lead	ND	5.0	µg/L							
Nickel	ND	25	µg/L							
Vanadium	ND	25	µg/L							
LCS (B185650-BS1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Beryllium	220	2.0	µg/L	250		88.1	80-120			
Chromium	251	5.0	µg/L	250		100	80-120			
Lead	248	5.0	µg/L	250		99.4	80-120			
Nickel	251	25	µg/L	250		101	80-120			
Vanadium	236	25	µg/L	250		94.3	80-120			
LCS Dup (B185650-BSD1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Beryllium	222	2.0	µg/L	250		88.9	80-120	0.959	20	
Chromium	257	5.0	µg/L	250		103	80-120	2.45	20	
Lead	251	5.0	µg/L	250		100	80-120	1.05	20	
Nickel	254	25	µg/L	250		102	80-120	1.18	20	
Vanadium	241	25	µg/L	250		96.2	80-120	2.05	20	
Matrix Spike (B185650-MS1)	**Source: 17H1605-03**			Prepared: 09/06/17 Analyzed: 09/07/17						
Lead	252	5.0	µg/L	250	4.47	99.0	75-125			
Vanadium	262	25	µg/L	250	26.7	94.2	75-125			
Matrix Spike Dup (B185650-MSD1)	**Source: 17H1605-03**			Prepared: 09/06/17 Analyzed: 09/07/17						
Lead	253	5.0	µg/L	250	4.47	99.5	75-125	0.437	20	
Vanadium	263	25	µg/L	250	26.7	94.6	75-125	0.391	20	
Batch B185720 - SW-846 3010A										
Blank (B185720-BLK1)				Prepared & Analyzed: 09/07/17						
Chromium	ND	5.0	µg/L							
Lead	ND	5.0	µg/L							
Nickel	ND	25	µg/L							
LCS (B185720-BS1)				Prepared & Analyzed: 09/07/17						
Chromium	270	5.0	µg/L	250		108	80-120			
Lead	267	5.0	µg/L	250		107	80-120			
Nickel	273	25	µg/L	250		109	80-120			
LCS Dup (B185720-BSD1)				Prepared & Analyzed: 09/07/17						
Chromium	270	5.0	µg/L	250		108	80-120	0.169	20	
Lead	263	5.0	µg/L	250		105	80-120	1.45	20	
Nickel	272	25	µg/L	250		109	80-120	0.658	20	

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QUALITY CONTROL

SPLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185720 - SW-846 3010A										
Matrix Spike (B185720-MS1)		**Source: 17H1605-02RE1**		Prepared & Analyzed: 09/07/17						
Chromium	281	5.0	µg/L	250	ND	112	75-125			
Lead	275	5.0	µg/L	250	2.11	109	75-125			
Nickel	278	25	µg/L	250	ND	111	75-125			
Matrix Spike Dup (B185720-MSD1)		**Source: 17H1605-02RE1**		Prepared & Analyzed: 09/07/17						
Chromium	272	5.0	µg/L	250	ND	109	75-125	3.12	20	
Lead	269	5.0	µg/L	250	2.11	107	75-125	2.31	20	
Nickel	272	25	µg/L	250	ND	109	75-125	2.27	20	

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications

No certified Analyses included in this Report

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17H0058 | 17H1605

Doc # 381 Rev 0 5 8 2015

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 14

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	SVOCs	RSR 15 Metal	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
01	WS-AOC9-SO-31-1	8/1/17	9:50		X	S	U	X								
02	WS-AOC9-SO-31-2		9:51					X								
	~~WS-AOC9-SO-31-3~~															
03	WS-AOC9-SO-30-1		9:40					X								
04	WS-AOC9-SO-30-2		9:42					X								
05	WS-AOC9-SO-30-3A		9:44					X								
06	WS-AOC9-SO-30-3B		9:46						X	X						
07	WS-AOC3-SO-1-1		10:04					X								
08	WS-AOC3-SO-1-2		10:05					X		X	X	X	X			
09	WS-AOC3-SO-1-3		10:10					X		X	X	X	X			

Comments:
WS-AOC 3-SO-1-3 (MS-MSD) VOCs only
Please hold excess volumes for possible SPLP analyses

Re-log: Run Sample 7 for SPLP chromium, lead, and vanadium. Run sample 8 for the previous but include Nickel too per client request - EES 8/30/17

Please use the following codes to indicate possible sample concentration

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Relinquished by: (signature)	Date/Time: 8/1/17 1525
Received by: (signature)	Date/Time: 8/1/17 1525
Relinquished by: (signature)	Date/Time: 8/1/17 5PM
Received by: (signature) 3.9	Date/Time: 8/1/17 1700
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID #
8/1/17 1700
NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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17H0058 | 17H1605

Doc # 381 Rev 0 5 8 2015

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	SVOCs	RSR 15 Metal	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
10	WS-AOC3-SO-2-1	8/1/17	10:26		X	S	U	X								
11	WS-AOC3-SO-2-2		10:30					X		X	X	X	X			
12	WS-AOC3-SO-2-3		10:34					X		X	X	X	X			
13	WS-AOC3-SO-2-4		10:38					X		X	X	X	X			
14	WS-AOC9-SO-48-1		10:40					X								
15	WS-AOC9-SO-48-2		10:42					X								
16	WS-AOC9-SO-48-3		10:44					X								
17	WS-AOC9-SO-48-4A		10:46					X								
18	WS-AOC9-SO-48-4B		10:48						X	X						
19	WS-AOC9-SO-47-1		11:00					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:
WS-AOC3-SO-2-2 (MS-MSD) All except VOC!
Please hold excess volumes for possible SPLP analyses.
WS-AOC3-SO-47-1 (MS-MSD)

Re-log: Run Sample 11 for SPLP Lead and Vanadium, run sample 12 and 13 for beryllium, chromium, lead, and vanadium per client request - EES 8/30/17

Relinquished by: (signature)	Date/Time:
	8/1/17 1525
Received by: (signature)	Date/Time:
	8/1/17 1525
Relinquished by: (signature)	Date/Time:
	8/1/17 OPL
Received by: (signature) 3.9	Date/Time:
	8/1/17 1700
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID #
8/1/17 1700
NELAC and AIHA-LAP, LLC Accredited

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39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By JM Date 8/1/17 Time 1700

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 3.9, 2.8, 3.2
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? F
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A Who was notified? ____
Are there Rushes? N/A Who was notified? ____
Are there Short Holds? N/A Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? T
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A
Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	29
Meoh-	7	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-	14	Other Plastic		Other Glass		Encore	2
Thiosulfate-		SOC Kit		Plastic Bag		Frozen: 8/1/17 1700	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17H1605

Laboratory Sample ID(s):

17H1605-01 thru 17H1605-05

Sample Date(s):

08/01/2017

List RCP Methods Used:

SW-846 6020A-B

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **09/11/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 11, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17H1607

Enclosed are results of analyses for samples received by the laboratory on August 30, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/11/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H1607

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC3-SO-3-2	17H1607-01	Soil		SM 2540G	
				SW-846 1312	
				SW-846 6020A-B	
WS-AOC3-SO-3-3	17H1607-02	Soil		SM 2540G	
				SW-846 1312	
				SW-846 6020A-B	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6020, only a select list of metals was requested and reported.

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Tod E. Kopyscinski
Laboratory Director

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1607

Date Received: 8/30/2017

Field Sample #: WS-AOC3-SO-3-2 Sampled: 8/1/2017 11:11

Sample ID: 17H1607-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.3		% Wt	1		SM 2540G	9/5/17	9/5/17 8:30	MRL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1607

Date Received: 8/30/2017

Field Sample #: WS-AOC3-SO-3-2 Sampled: 8/1/2017 11:11

Sample ID: 17H1607-01

Sample Matrix: Soil

SPLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	250	5.0	µg/L	5		SW-846 6020A-B	9/6/17	9/7/17 20:44	WSD
Vanadium	ND	25	µg/L	5		SW-846 6020A-B	9/6/17	9/7/17 20:44	WSD

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1607

Date Received: 8/30/2017

Field Sample #: WS-AOC3-SO-3-3 Sampled: 8/1/2017 11:12

Sample ID: 17H1607-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.2		% Wt	1		SM 2540G	9/5/17	9/5/17 8:30	MRL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1607

Date Received: 8/30/2017

Field Sample #: WS-AOC3-SO-3-3 Sampled: 8/1/2017 11:12

Sample ID: 17H1607-02

Sample Matrix: Soil

SPLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	ND	5.0	µg/L	5		SW-846 6020A-B	9/6/17	9/7/17 20:47	WSD
Lead	ND	5.0	µg/L	5		SW-846 6020A-B	9/6/17	9/7/17 20:47	WSD
Vanadium	ND	25	µg/L	5		SW-846 6020A-B	9/6/17	9/7/17 20:47	WSD

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17H1607-01 [WS-AOC3-SO-3-2]	B183482	09/05/17
17H1607-02 [WS-AOC3-SO-3-3]	B183482	09/05/17

Prep Method: SW-846 3010A-SW-846 6020A-B **Leachates were extracted on 9/5/2017 per SW-846 1312 in Batch B185509**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1607-01 [WS-AOC3-SO-3-2]	B185650	50.0	50.0	09/06/17
17H1607-02 [WS-AOC3-SO-3-3]	B185650	50.0	50.0	09/06/17

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

SPLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185650 - SW-846 3010A										
Blank (B185650-BLK1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Chromium	ND	5.0	µg/L							
Lead	ND	5.0	µg/L							
Vanadium	ND	25	µg/L							
LCS (B185650-BS1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Chromium	251	5.0	µg/L	250		100	80-120			
Lead	248	5.0	µg/L	250		99.4	80-120			
Vanadium	236	25	µg/L	250		94.3	80-120			
LCS Dup (B185650-BSD1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Chromium	257	5.0	µg/L	250		103	80-120	2.45	20	
Lead	251	5.0	µg/L	250		100	80-120	1.05	20	
Vanadium	241	25	µg/L	250		96.2	80-120	2.05	20	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications

No certified Analyses included in this Report

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

17H1607

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1] Matrix Code	Conc Code	(Soxhlet) PCB	PAH	ETPH	SVOCs	RSR 15 Metals	VOCs			Pb/Cd/Cr	Ni/Pb/Hg/Zn			# of Containers
01	WS-AOC 9-SO-47-2	8/1/17	11:02		X	S	U	X												
02	WS-AOC 9-SO-47-3A		11:04					X												
03	WS-AOC 9-SO-47-3B		11:06						X	X										
04	WS-AOC 3-SO-3-1		11:10					X												
05-01	WS-AOC 3-SO-3-2		11:11					X		X	X	X	X				X			
06-02	WS-AOC 3-SO-3-3		11:12					X		X	X	X	X			X	X			
07	WS-AOC 3-SO-3-4		11:13					X		X	X	X								
08	WS-AOC 9-SO-45-1		11:40					X												
09	WS-AOC 9-SO-45-2		11:42					X												
10	WS-AOC 9-SO-45-3A		11:44					X												

Comments:
WS-AOC9-SO-45-2 (MS-MSD)
Please hold excess volumes for possible SPLP analyses.

Activate per Loren McGanta- MG 8/30/2017

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Relinquished by: (signature)	Date/Time: 8/1/17 1525
Received by: (signature)	Date/Time: 8/1/17 1525
Relinquished by: (signature)	Date/Time: 8/1/17 1700
Received by: (signature) 3.9	Date/Time: 8/1/17 1700
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required

PWSID #
8/1/17 1700

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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17H0059

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Doc # 381 Rev 0 5 8 2015

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1] Matrix Code	Conc Code	(Soxhlet) PCB	PAH	ETPH	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC9-SO-45-3B	8/1/17	11:46		X	S	U		X	X			
12	WS-AOC9-SO-34-1	↓	11:43		↓	↓	↓	X					
13	WS-AOC9-SO-34-2		11:44					X					
14	WS-AOC9-SO-34-3		11:45					X	X	X			
15	WS-AOC9-SO-46-1		12:00					X					
16	WS-AOC9-SO-46-2A		12:02					X					
17	WS-AOC9-SO-46-2B		12:04						X	X			
18	WS-AOC9-SO-46-3		12:06					X					
19	WS-AOC9-SO-33-1		12:00					X					
20	WS-AOC9-SO-33-2	↓	12:01		↓	↓	↓	X					

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 8/1/17 1525
Received by: (signature)	Date/Time: 8/1/17 1525
Relinquished by: (signature)	Date/Time: 8/1/17 1705PM
Received by: (signature) 3.9	Date/Time: 8/1/17 1700
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # /
8/1/17 1700
NELAC and AIHA-LAP, LLC Accredited

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F: 413-525-6405
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Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By JM Date 8/1/17 Time 1700

How were the samples received? In Cooler T No Cooler ___ On Ice T No Ice ___
Direct from Sampling ___ Ambient ___ Melted Ice ___

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 3.9, 2.8, 3.2
By Blank # ___ Actual Temp - ___

Was Custody Seal Intact? N/A Were Samples Tampered with? F
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A Who was notified? ___
Are there Rushes? N/A Who was notified? ___
Are there Short Holds? N/A Who was notified? ___
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? T
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A
Do all samples have the proper pH? N/A Acid ___ Base ___

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	26
Meoh-	2	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-	4	Other Plastic		Other Glass		Encore	2
Thiosulfate-		SOC Kit		Plastic Bag		Frozen: 8/1/17 1700	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17H1607

Laboratory Sample ID(s):

17H1607-01 thru 17H1607-02

Sample Date(s):

08/01/2017

List RCP Methods Used:

SW-846 1312, SW-846 6020A-B

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Tod Kopyscinski **Position:** **Laboratory Director**

Printed Name: **Tod E. Kopyscinski** **Date:** **09/11/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 11, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17H1611

Enclosed are results of analyses for samples received by the laboratory on August 30, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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Case Narrative 4

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17H1611-01 5

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/11/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H1611

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC3-SO-DUP-40	17H1611-01	Soil		SM 2540G	
				SW-846 6020A-B	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6020, only a select list of metals was requested and reported.

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Tod E. Kopyscinski
Laboratory Director

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1611

Date Received: 8/30/2017

Field Sample #: WS-AOC3-SO-DUP-40 Sampled: 8/1/2017 00:00

Sample ID: 17H1611-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	97.6		% Wt	1		SM 2540G	9/5/17	9/5/17 8:30	MRL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1611

Date Received: 8/30/2017

Field Sample #: WS-AOC3-SO-DUP-40 Sampled: 8/1/2017 00:00

Sample ID: 17H1611-01

Sample Matrix: Soil

SPLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	250	5.0	µg/L	5		SW-846 6020A-B	9/6/17	9/7/17 20:54	WSD
Vanadium	ND	25	µg/L	5		SW-846 6020A-B	9/6/17	9/7/17 20:54	WSD

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17H1611-01 [WS-AOC3-SO-DUP-40]	B183482	09/05/17

Prep Method: SW-846 3010A-SW-846 6020A-B **Leachates were extracted on 9/5/2017 per SW-846 1312 in Batch B185509**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1611-01 [WS-AOC3-SO-DUP-40]	B185650	50.0	50.0	09/06/17

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QUALITY CONTROL

SPLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185650 - SW-846 3010A										
Blank (B185650-BLK1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Lead	ND	5.0	µg/L							
Vanadium	ND	25	µg/L							
LCS (B185650-BS1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Lead	248	5.0	µg/L	250		99.4	80-120			
Vanadium	236	25	µg/L	250		94.3	80-120			
LCS Dup (B185650-BSD1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Lead	251	5.0	µg/L	250		100	80-120	1.05	20	
Vanadium	241	25	µg/L	250		96.2	80-120	2.05	20	

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications

No certified Analyses included in this Report

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
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Company Name:	Weston & Sampson Engineers
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Con-Test Bid:	
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Sampled By:	Chris Berthiaume/Will Sirotnak

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7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
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Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCB	PAH	ETPH	SVOCs	RSR 15 Metal	VOCs		Arsenic				# of Containers	[2] Preservation Code	[3] Container Code
06	WS-AOC9-SO-DUP-39	8/1/17			X	S	U	X													
07	WS-AOC3-SO-DUP-40							X		X	X	X	X		X						
08	WS-AOC9-SO-DUP-41							X													
09	WS-AOC9-SO-DUP-42							X													
10	WS-AOC9-SO-DUP-43							X	X	X											
11	WS-AOC9-SO-DUP-44							X													

-01

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
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O = Other (please define)

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A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:
Please hold excess volumes for possible SPLP analyses.
Initiated per Lorenm - MBC 8/3/2017

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 8/1/17 1525
Received by: (signature)	Date/Time: 8/1/17 1525
Relinquished by: (signature)	Date/Time: 8/1/17 SDC
Received by: (signature) S.G	Date/Time: 8/1/17 1700
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
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○ MA State DW Form Required
PWSID #
8/1/17 1700
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CHAIN OF CUSTODY RECORD

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Company Name:	Weston & Sampson Engineers
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Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1] Matrix Code	Conc Code	(Soxhlet) PCB
01	WS-AOC12W-CO-116	8/1/17	14:50		X	O		X
02	WS-AOC12W-CO-117	↓	14:55		↓	↓		X
03	WS-AOC12W-CO-118	↓	14:40		↓	↓		X
04	WS-AOC12W-CO-119	↓	14:35		↓	↓		X
05	WS-AOC12W-CO-120	↓	14:30		↓	↓		X

# of Containers	
[2] Preservation Code	
[3] Container Code	

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
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Relinquished by: (signature)	Date/Time: 8/1/17 1525
Received by: (signature)	Date/Time: 8/1/17 1556
Relinquished by: (signature)	Date/Time: 8/1/17 1700
Received by: (signature)	Date/Time: 8/1/17 1700
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
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con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By JM Date 8/1/17 Time 1700

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 3.9, 2.8, 3.2
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? F
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A Who was notified? ____
Are there Rushes? N/A Who was notified? ____
Are there Short Holds? N/A Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? N/A
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A
Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	7
Meoh-	1	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	5
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-	2	Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen: 8/1/17 1700	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17H1611

Laboratory Sample ID(s):

17H1611-01

Sample Date(s):

08/01/2017

List RCP Methods Used:

SW-846 6020A-B

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Tod Kopyscinski **Position:** **Laboratory Director**

Printed Name: **Tod E. Kopyscinski** **Date:** **09/11/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 16, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17G1254

Enclosed are results of analyses for samples received by the laboratory on July 27, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 8/16/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G1254

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC13-SO-24-4B	17G1254-01	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC13-SO-23-1A	17G1254-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-23-1B	17G1254-03	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
WS-AOC13-SO-23-2	17G1254-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-23-3	17G1254-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-1-1	17G1254-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-1-2A	17G1254-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-1-2B	17G1254-08	Soil		CTDEP ETPH	
				SM 2540G	
WS-AOC7-SO-1-3	17G1254-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-7-1	17G1254-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-7-2	17G1254-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-7-3A	17G1254-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-7-3B	17G1254-13	Soil		CTDEP ETPH	
				SM 2540G	
WS-AOC7-SO-8-1	17G1254-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-8-2	17G1254-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-8-3	17G1254-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-8-4A	17G1254-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-8-4B	17G1254-18	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
WS-AOC7-SO-4-1	17G1254-19	Soil		SM 2540G	
				SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

CTDEP ETPH

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

o-Terphenyl
17G1254-08[WS-AOC7-SO-1-2B]

SW-846 8082A

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl
17G1254-09[WS-AOC7-SO-1-3], 17G1254-10[WS-AOC7-SO-7-1], 17G1254-11[WS-AOC7-SO-7-2], 17G1254-12[WS-AOC7-SO-7-3A], 17G1254-14[WS-AOC7-SO-8-1], 17G1254-15[WS-AOC7-SO-8-2], 17G1254-16[WS-AOC7-SO-8-3]

Decachlorobiphenyl [2C]
17G1254-09[WS-AOC7-SO-1-3], 17G1254-10[WS-AOC7-SO-7-1], 17G1254-11[WS-AOC7-SO-7-2], 17G1254-12[WS-AOC7-SO-7-3A], 17G1254-14[WS-AOC7-SO-8-1], 17G1254-15[WS-AOC7-SO-8-2], 17G1254-16[WS-AOC7-SO-8-3]

Tetrachloro-m-xylene
17G1254-09[WS-AOC7-SO-1-3], 17G1254-10[WS-AOC7-SO-7-1], 17G1254-11[WS-AOC7-SO-7-2], 17G1254-12[WS-AOC7-SO-7-3A], 17G1254-14[WS-AOC7-SO-8-1], 17G1254-15[WS-AOC7-SO-8-2], 17G1254-16[WS-AOC7-SO-8-3]

Tetrachloro-m-xylene [2C]
17G1254-09[WS-AOC7-SO-1-3], 17G1254-10[WS-AOC7-SO-7-1], 17G1254-11[WS-AOC7-SO-7-2], 17G1254-12[WS-AOC7-SO-7-3A], 17G1254-14[WS-AOC7-SO-8-1], 17G1254-15[WS-AOC7-SO-8-2], 17G1254-16[WS-AOC7-SO-8-3]

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-24-4B Sampled: 7/27/2017 09:52

Sample ID: 17G1254-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	46.0	30-130		8/5/17 15:09
2-Fluorobiphenyl	57.9	30-130		8/5/17 15:09
p-Terphenyl-d14	67.7	30-130		8/5/17 15:09

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-24-4B Sampled: 7/27/2017 09:52

Sample ID: 17G1254-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.9		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-1A Sampled: 7/27/2017 10:00

Sample ID: 17G1254-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1221 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1232 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1242 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1248 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1254 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1260 [1]	1.5	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1262 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1268 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.8	30-150		8/15/17 7:51
Decachlorobiphenyl [2]	88.7	30-150		8/15/17 7:51
Tetrachloro-m-xylene [1]	85.3	30-150		8/15/17 7:51
Tetrachloro-m-xylene [2]	93.6	30-150		8/15/17 7:51

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-1A Sampled: 7/27/2017 10:00

Sample ID: 17G1254-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.4		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-1B Sampled: 7/27/2017 10:02

Sample ID: 17G1254-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.6	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Arsenic	3.6	2.6	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Barium	34	2.6	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Beryllium	ND	0.26	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Chromium	7.5	0.52	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Copper	150	0.52	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Lead	72	0.78	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Mercury	0.081	0.026	mg/Kg dry	1		SW-846 7471B	8/3/17	8/5/17 13:09	TJK
Nickel	12	0.52	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Selenium	ND	5.2	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Silver	ND	0.52	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Thallium	ND	2.6	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Vanadium	45	1.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Zinc	81	1.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-1B Sampled: 7/27/2017 10:02

Sample ID: 17G1254-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.8		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-2 Sampled: 7/27/2017 10:04

Sample ID: 17G1254-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1221 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1232 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1242 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1248 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1254 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1260 [2]	3.6	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1262 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1268 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.4	30-150		8/15/17 8:03
Decachlorobiphenyl [2]	84.3	30-150		8/15/17 8:03
Tetrachloro-m-xylene [1]	63.2	30-150		8/15/17 8:03
Tetrachloro-m-xylene [2]	68.3	30-150		8/15/17 8:03

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-2 Sampled: 7/27/2017 10:04

Sample ID: 17G1254-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.5		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-3 Sampled: 7/27/2017 10:05

Sample ID: 17G1254-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1260 [1]	1.1	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.0	30-150		8/14/17 23:48
Decachlorobiphenyl [2]	101	30-150		8/14/17 23:48
Tetrachloro-m-xylene [1]	82.6	30-150		8/14/17 23:48
Tetrachloro-m-xylene [2]	89.0	30-150		8/14/17 23:48

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-3 Sampled: 7/27/2017 10:05

Sample ID: 17G1254-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.0		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-1 Sampled: 7/27/2017 10:30

Sample ID: 17G1254-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1260 [2]	0.13	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.5	30-150		8/15/17 0:05
Decachlorobiphenyl [2]	75.5	30-150		8/15/17 0:05
Tetrachloro-m-xylene [1]	74.7	30-150		8/15/17 0:05
Tetrachloro-m-xylene [2]	80.3	30-150		8/15/17 0:05

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-1 Sampled: 7/27/2017 10:30

Sample ID: 17G1254-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.0		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-2A Sampled: 7/27/2017 10:32

Sample ID: 17G1254-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.7	30-150		8/15/17 0:22
Decachlorobiphenyl [2]	82.4	30-150		8/15/17 0:22
Tetrachloro-m-xylene [1]	77.7	30-150		8/15/17 0:22
Tetrachloro-m-xylene [2]	85.7	30-150		8/15/17 0:22

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-2A Sampled: 7/27/2017 10:32

Sample ID: 17G1254-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.3		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-2B Sampled: 7/27/2017 10:34

Sample ID: 17G1254-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	2000	500	mg/Kg dry	20		CTDEP ETPH	8/3/17	8/4/17 21:56	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	8/4/17 21:56

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-2B Sampled: 7/27/2017 10:34

Sample ID: 17G1254-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.3		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-3 Sampled: 7/27/2017 10:36

Sample ID: 17G1254-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1221 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1232 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1242 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1248 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1254 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1260 [1]	24	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1262 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1268 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/15/17 8:15
Decachlorobiphenyl [2]	*	30-150	S-01	8/15/17 8:15
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/15/17 8:15
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/15/17 8:15

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-3 Sampled: 7/27/2017 10:36

Sample ID: 17G1254-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.6		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-1 Sampled: 7/27/2017 10:37

Sample ID: 17G1254-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1221 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1232 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1242 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1248 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1254 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1260 [1]	12	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1262 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1268 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/15/17 8:27
Decachlorobiphenyl [2]	*	30-150	S-01	8/15/17 8:27
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/15/17 8:27
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/15/17 8:27

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-1 Sampled: 7/27/2017 10:37

Sample ID: 17G1254-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.3		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-2 Sampled: 7/27/2017 10:38

Sample ID: 17G1254-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1221 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1232 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1242 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1248 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1254 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1260 [1]	8.2	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1262 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1268 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/15/17 8:39
Decachlorobiphenyl [2]	*	30-150	S-01	8/15/17 8:39
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/15/17 8:39
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/15/17 8:39

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-2 Sampled: 7/27/2017 10:38

Sample ID: 17G1254-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.7		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-3A Sampled: 7/27/2017 10:39

Sample ID: 17G1254-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1221 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1232 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1242 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1248 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1254 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1260 [1]	10	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1262 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1268 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/15/17 8:51
Decachlorobiphenyl [2]	*	30-150	S-01	8/15/17 8:51
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/15/17 8:51
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/15/17 8:51

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-3A Sampled: 7/27/2017 10:39

Sample ID: 17G1254-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.7		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-3B Sampled: 7/27/2017 10:40

Sample ID: 17G1254-13

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	290	120	mg/Kg dry	10		CTDEP ETPH	8/3/17	8/4/17 22:14	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	88.1	50-150		8/4/17 22:14

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-3B Sampled: 7/27/2017 10:40

Sample ID: 17G1254-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.3		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-1 Sampled: 7/27/2017 10:53

Sample ID: 17G1254-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1221 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1232 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1242 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1248 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1254 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1260 [1]	5.5	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1262 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1268 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/15/17 9:04
Decachlorobiphenyl [2]	*	30-150	S-01	8/15/17 9:04
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/15/17 9:04
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/15/17 9:04

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-1 Sampled: 7/27/2017 10:53

Sample ID: 17G1254-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.0		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-2 Sampled: 7/27/2017 10:54

Sample ID: 17G1254-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1221 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1232 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1242 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1248 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1254 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1260 [1]	44	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1262 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1268 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/15/17 9:16
Decachlorobiphenyl [2]	*	30-150	S-01	8/15/17 9:16
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/15/17 9:16
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/15/17 9:16

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-2 Sampled: 7/27/2017 10:54

Sample ID: 17G1254-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.4		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-3 Sampled: 7/27/2017 10:55

Sample ID: 17G1254-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1221 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1232 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1242 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1248 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1254 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1260 [1]	17	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1262 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1268 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/15/17 9:28
Decachlorobiphenyl [2]	*	30-150	S-01	8/15/17 9:28
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/15/17 9:28
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/15/17 9:28

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-3 Sampled: 7/27/2017 10:55

Sample ID: 17G1254-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.4		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-4A Sampled: 7/27/2017 10:56

Sample ID: 17G1254-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1260 [1]	0.21	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.0	30-150		8/15/17 9:40
Decachlorobiphenyl [2]	88.5	30-150		8/15/17 9:40
Tetrachloro-m-xylene [1]	86.6	30-150		8/15/17 9:40
Tetrachloro-m-xylene [2]	93.6	30-150		8/15/17 9:40

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-4A Sampled: 7/27/2017 10:56

Sample ID: 17G1254-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.7		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-4B Sampled: 7/27/2017 10:57

Sample ID: 17G1254-18

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	16	13	mg/Kg dry	1		CTDEP ETPH	8/3/17	8/4/17 23:07	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	62.8	50-150		8/4/17 23:07

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-4B Sampled: 7/27/2017 10:57

Sample ID: 17G1254-18

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	3.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Arsenic	ND	3.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Barium	12	3.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Beryllium	ND	0.30	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Cadmium	ND	0.30	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Chromium	6.7	0.60	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Copper	7.5	0.60	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Lead	7.5	0.90	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Mercury	ND	0.31	mg/Kg dry	1		SW-846 7471B	8/3/17	8/5/17 13:11	TJK
Nickel	160	0.60	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Selenium	ND	6.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Silver	ND	0.60	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Thallium	ND	3.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Vanadium	110	1.2	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Zinc	63	1.2	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-4B Sampled: 7/27/2017 10:57

Sample ID: 17G1254-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.8		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-4-1 Sampled: 7/27/2017 11:06

Sample ID: 17G1254-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.7	30-150		8/15/17 3:44
Decachlorobiphenyl [2]	87.0	30-150		8/15/17 3:44
Tetrachloro-m-xylene [1]	86.8	30-150		8/15/17 3:44
Tetrachloro-m-xylene [2]	94.0	30-150		8/15/17 3:44

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-4-1 Sampled: 7/27/2017 11:06

Sample ID: 17G1254-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.3		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1254-08 [WS-AOC7-SO-1-2B]	B183209	30.0	2.00	08/03/17
17G1254-13 [WS-AOC7-SO-7-3B]	B183209	30.0	1.00	08/03/17
17G1254-18 [WS-AOC7-SO-8-4B]	B183209	30.0	1.00	08/03/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G1254-01 [WS-AOC13-SO-24-4B]	B183218	08/03/17
17G1254-02 [WS-AOC13-SO-23-1A]	B183218	08/03/17
17G1254-03 [WS-AOC13-SO-23-1B]	B183218	08/03/17
17G1254-04 [WS-AOC13-SO-23-2]	B183218	08/03/17
17G1254-05 [WS-AOC13-SO-23-3]	B183218	08/03/17
17G1254-06 [WS-AOC7-SO-1-1]	B183218	08/03/17
17G1254-07 [WS-AOC7-SO-1-2A]	B183218	08/03/17
17G1254-08 [WS-AOC7-SO-1-2B]	B183218	08/03/17
17G1254-09 [WS-AOC7-SO-1-3]	B183218	08/03/17
17G1254-10 [WS-AOC7-SO-7-1]	B183218	08/03/17
17G1254-11 [WS-AOC7-SO-7-2]	B183218	08/03/17
17G1254-12 [WS-AOC7-SO-7-3A]	B183218	08/03/17
17G1254-13 [WS-AOC7-SO-7-3B]	B183218	08/03/17
17G1254-14 [WS-AOC7-SO-8-1]	B183218	08/03/17
17G1254-15 [WS-AOC7-SO-8-2]	B183218	08/03/17
17G1254-16 [WS-AOC7-SO-8-3]	B183218	08/03/17
17G1254-17 [WS-AOC7-SO-8-4A]	B183218	08/03/17
17G1254-18 [WS-AOC7-SO-8-4B]	B183218	08/03/17
17G1254-19 [WS-AOC7-SO-4-1]	B183218	08/03/17

Prep Method: SW-846 3050B-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1254-03 [WS-AOC13-SO-23-1B]	B183203	1.03	50.0	08/03/17
17G1254-18 [WS-AOC7-SO-8-4B]	B183203	1.05	50.0	08/03/17

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1254-03 [WS-AOC13-SO-23-1B]	B183214	0.620	50.0	08/03/17
17G1254-18 [WS-AOC7-SO-8-4B]	B183214	0.0605	50.0	08/03/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1254-02 [WS-AOC13-SO-23-1A]	B183351	10.0	10.0	08/04/17
17G1254-04 [WS-AOC13-SO-23-2]	B183351	10.0	10.0	08/04/17
17G1254-05 [WS-AOC13-SO-23-3]	B183351	10.0	10.0	08/04/17
17G1254-06 [WS-AOC7-SO-1-1]	B183351	10.0	10.0	08/04/17
17G1254-07 [WS-AOC7-SO-1-2A]	B183351	10.0	10.0	08/04/17
17G1254-09 [WS-AOC7-SO-1-3]	B183351	10.0	10.0	08/04/17
17G1254-10 [WS-AOC7-SO-7-1]	B183351	10.0	10.0	08/04/17
17G1254-11 [WS-AOC7-SO-7-2]	B183351	10.0	10.0	08/04/17

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1254-12 [WS-AOC7-SO-7-3A]	B183351	10.0	10.0	08/04/17
17G1254-14 [WS-AOC7-SO-8-1]	B183351	10.0	10.0	08/04/17
17G1254-15 [WS-AOC7-SO-8-2]	B183351	10.0	10.0	08/04/17
17G1254-16 [WS-AOC7-SO-8-3]	B183351	10.0	10.0	08/04/17
17G1254-17 [WS-AOC7-SO-8-4A]	B183351	10.0	10.0	08/04/17
17G1254-19 [WS-AOC7-SO-4-1]	B183351	10.0	10.0	08/04/17

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1254-01 [WS-AOC13-SO-24-4B]	B183204	30.0	1.00	08/03/17

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183204 - SW-846 3546										
Blank (B183204-BLK1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.14*		mg/Kg wet	3.33		64.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.15*		mg/Kg wet	3.33		64.4	30-130			
Surrogate: p-Terphenyl-d14	*2.52*		mg/Kg wet	3.33		75.7	30-130			
LCS (B183204-BS1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140			
Acenaphthylene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140			
Anthracene	1.08	0.17	mg/Kg wet	1.67		64.8	40-140			
Benzo(a)anthracene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140			
Benzo(a)pyrene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Benzo(b)fluoranthene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140			
Benzo(g,h,i)perylene	0.934	0.17	mg/Kg wet	1.67		56.0	40-140			
Benzo(k)fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140			
Chrysene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140			
Dibenz(a,h)anthracene	0.917	0.17	mg/Kg wet	1.67		55.0	40-140			
Fluoranthene	1.03	0.17	mg/Kg wet	1.67		62.0	40-140			
Fluorene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140			
Indeno(1,2,3-cd)pyrene	0.941	0.17	mg/Kg wet	1.67		56.5	40-140			
2-Methylnaphthalene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140			
Naphthalene	1.11	0.17	mg/Kg wet	1.67		66.6	40-140			
Phenanthrene	1.09	0.17	mg/Kg wet	1.67		65.4	40-140			
Pyrene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Surrogate: Nitrobenzene-d5	*2.64*		mg/Kg wet	3.33		79.3	30-130			
Surrogate: 2-Fluorobiphenyl	*2.63*		mg/Kg wet	3.33		78.9	30-130			
Surrogate: p-Terphenyl-d14	*2.55*		mg/Kg wet	3.33		76.5	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183204 - SW-846 3546										
LCS Dup (B183204-BSD1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	1.00	0.17	mg/Kg wet	1.67		60.3	40-140	8.39	30	
Acenaphthylene	1.00	0.17	mg/Kg wet	1.67		60.1	40-140	10.1	30	
Anthracene	1.01	0.17	mg/Kg wet	1.67		60.9	40-140	6.27	30	
Benzo(a)anthracene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140	6.55	30	
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	4.07	30	
Benzo(b)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	5.53	30	
Benzo(g,h,i)perylene	0.891	0.17	mg/Kg wet	1.67		53.5	40-140	4.68	30	
Benzo(k)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	2.69	30	
Chrysene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140	5.47	30	
Dibenz(a,h)anthracene	0.882	0.17	mg/Kg wet	1.67		52.9	40-140	3.89	30	
Fluoranthene	0.965	0.17	mg/Kg wet	1.67		57.9	40-140	6.90	30	
Fluorene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	11.1	30	
Indeno(1,2,3-cd)pyrene	0.869	0.17	mg/Kg wet	1.67		52.1	40-140	7.96	30	
2-Methylnaphthalene	1.04	0.17	mg/Kg wet	1.67		62.7	40-140	13.3	30	
Naphthalene	0.964	0.17	mg/Kg wet	1.67		57.8	40-140	14.1	30	
Phenanthrene	1.01	0.17	mg/Kg wet	1.67		60.7	40-140	7.46	30	
Pyrene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140	6.35	30	
Surrogate: Nitrobenzene-d5	*2.27*		mg/Kg wet	3.33		68.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.38*		mg/Kg wet	3.33		71.4	30-130			
Surrogate: p-Terphenyl-d14	*2.40*		mg/Kg wet	3.33		72.1	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183351 - SW-846 3540C										
Blank (B183351-BLK1)				Prepared: 08/04/17 Analyzed: 08/14/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.182*		mg/Kg wet	0.200		90.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.169*		mg/Kg wet	0.200		84.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.159*		mg/Kg wet	0.200		79.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.167*		mg/Kg wet	0.200		83.6	30-150			
LCS (B183351-BS1)				Prepared: 08/04/17 Analyzed: 08/14/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		96.1	40-140			
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		98.3	40-140			
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		93.1	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		87.4	40-140			
Surrogate: Decachlorobiphenyl	*0.218*		mg/Kg wet	0.200		109	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.201*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.186*		mg/Kg wet	0.200		92.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.197*		mg/Kg wet	0.200		98.4	30-150			
LCS Dup (B183351-BSD1)				Prepared: 08/04/17 Analyzed: 08/14/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		94.5	40-140	1.61	30	
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		98.6	40-140	0.260	30	
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		93.4	40-140	0.315	30	
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		87.9	40-140	0.476	30	
Surrogate: Decachlorobiphenyl	*0.212*		mg/Kg wet	0.200		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.196*		mg/Kg wet	0.200		98.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.184*		mg/Kg wet	0.200		92.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.192*		mg/Kg wet	0.200		95.9	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183351 - SW-846 3540C										
Matrix Spike (B183351-MS1)		**Source: 17G1254-05**		Prepared: 08/04/17 Analyzed: 08/15/17						
Aroclor-1016	0.30	0.12	mg/Kg dry	0.244	ND	121	40-140			
Aroclor-1016 [2C]	0.32	0.12	mg/Kg dry	0.244	ND	129	40-140			
Aroclor-1260	1.2	0.12	mg/Kg dry	0.244	1.1	46.3	40-140			
Aroclor-1260 [2C]	1.2	0.12	mg/Kg dry	0.244	1.0	46.8	40-140			
Surrogate: Decachlorobiphenyl	*0.232*		mg/Kg dry	0.244		95.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.240*		mg/Kg dry	0.244		98.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.216*		mg/Kg dry	0.244		88.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.238*		mg/Kg dry	0.244		97.7	30-150			
Matrix Spike Dup (B183351-MSD1)		**Source: 17G1254-05**		Prepared: 08/04/17 Analyzed: 08/15/17						
Aroclor-1016	0.32	0.12	mg/Kg dry	0.244	ND	132	40-140	8.34	50	
Aroclor-1016 [2C]	0.31	0.12	mg/Kg dry	0.244	ND	126	40-140	2.73	50	
Aroclor-1260	1.2	0.12	mg/Kg dry	0.244	1.1	53.6	40-140	1.52	50	
Aroclor-1260 [2C]	1.2	0.12	mg/Kg dry	0.244	1.0	58.6	40-140	2.45	50	
Surrogate: Decachlorobiphenyl	*0.236*		mg/Kg dry	0.244		96.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.244*		mg/Kg dry	0.244		100	30-150			
Surrogate: Tetrachloro-m-xylene	*0.222*		mg/Kg dry	0.244		91.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.236*		mg/Kg dry	0.244		96.9	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183209 - SW-846 3546										
Blank (B183209-BLK1)				Prepared & Analyzed: 08/03/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*2.17*		mg/Kg wet	3.33		65.2	50-150			
LCS (B183209-BS1)				Prepared & Analyzed: 08/03/17						
CT ETPH	21.7	10	mg/Kg wet	33.3		65.2	60-120			
Surrogate: o-Terphenyl	*2.25*		mg/Kg wet	3.33		67.5	50-150			
LCS Dup (B183209-BSD1)				Prepared & Analyzed: 08/03/17						
CT ETPH	22.9	10	mg/Kg wet	33.3		68.8	60-120	5.37	30	
Surrogate: o-Terphenyl	*2.32*		mg/Kg wet	3.33		69.5	50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183203 - SW-846 3050B										
Blank (B183203-BLK1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							
LCS (B183203-BS1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Antimony	72.0	5.0	mg/Kg wet	88.2		81.6	0-210.3			
Arsenic	55.2	5.0	mg/Kg wet	57.0		96.8	77.8-122.1			
Barium	108	5.0	mg/Kg wet	110		98.2	82-117.4			
Beryllium	68.1	0.50	mg/Kg wet	67.5		101	82.3-117.7			
Cadmium	77.4	0.50	mg/Kg wet	77.8		99.5	81.9-118.2			
Chromium	63.7	1.0	mg/Kg wet	65.0		97.9	78.7-120.6			
Copper	58.6	1.0	mg/Kg wet	56.4		104	80.4-119.6			
Lead	84.3	1.5	mg/Kg wet	85.6		98.5	82.4-117.8			
Nickel	59.7	1.0	mg/Kg wet	61.3		97.3	82.2-117.8			
Selenium	75.4	10	mg/Kg wet	78.9		95.6	77.1-122.3			
Silver	54.1	1.0	mg/Kg wet	54.2		99.7	74.3-125.4			
Thallium	192	5.0	mg/Kg wet	178		108	78.2-121.6			
Vanadium	54.6	2.0	mg/Kg wet	56.3		96.9	64.8-135.2			
Zinc	191	2.0	mg/Kg wet	198		96.5	79.7-120.8			
LCS Dup (B183203-BSD1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Antimony	69.8	5.1	mg/Kg wet	88.2		79.1	0-210.3	3.12	30	
Arsenic	56.0	5.1	mg/Kg wet	57.0		98.2	77.8-122.1	1.41	30	
Barium	106	5.1	mg/Kg wet	110		96.6	82-117.4	1.62	30	
Beryllium	67.7	0.51	mg/Kg wet	67.5		100	82.3-117.7	0.566	30	
Cadmium	78.4	0.51	mg/Kg wet	77.8		101	81.9-118.2	1.24	30	
Chromium	62.3	1.0	mg/Kg wet	65.0		95.8	78.7-120.6	2.18	30	
Copper	58.8	1.0	mg/Kg wet	56.4		104	80.4-119.6	0.296	30	
Lead	82.9	1.5	mg/Kg wet	85.6		96.9	82.4-117.8	1.69	30	
Nickel	60.9	1.0	mg/Kg wet	61.3		99.3	82.2-117.8	2.05	30	
Selenium	75.6	10	mg/Kg wet	78.9		95.8	77.1-122.3	0.247	30	
Silver	53.7	1.0	mg/Kg wet	54.2		99.1	74.3-125.4	0.626	30	
Thallium	189	5.1	mg/Kg wet	178		106	78.2-121.6	1.54	30	
Vanadium	52.7	2.0	mg/Kg wet	56.3		93.5	64.8-135.2	3.54	30	
Zinc	190	2.0	mg/Kg wet	198		96.1	79.7-120.8	0.393	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183203 - SW-846 3050B										
MRL Check (B183203-MRL1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Lead	0.863	0.72	mg/Kg wet	0.722		120	80-120			
Batch B183214 - SW-846 7471										
Blank (B183214-BLK1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Mercury	ND	0.025	mg/Kg wet							
LCS (B183214-BS1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Mercury	9.76	1.9	mg/Kg wet	9.36		104	73.7-126.3			
LCS Dup (B183214-BSD1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Mercury	9.10	1.9	mg/Kg wet	9.36		97.2	73.7-126.3	7.05	30	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183218 - % Solids										
Duplicate (B183218-DUP4)		**Source: 17G1254-04**		Prepared: 08/03/17 Analyzed: 08/04/17						
% Solids	85.8		% Wt		84.5			1.53	20	
Duplicate (B183218-DUP5)		**Source: 17G1254-05**		Prepared: 08/03/17 Analyzed: 08/04/17						
% Solids	81.1		% Wt		82.0			1.10	20	
Duplicate (B183218-DUP6)		**Source: 17G1254-06**		Prepared: 08/03/17 Analyzed: 08/04/17						
% Solids	94.6		% Wt		94.0			0.636	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-23-1A

Lab Sample ID: 17G1254-02

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	1.5	
	2	0.000	-0.030	0.030	1.5	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-23-2

Lab Sample ID: 17G1254-04

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	3.4	
	2	0.000	-0.030	0.030	3.6	5.7

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-23-3

Lab Sample ID: 17G1254-05

Date(s) Analyzed: 08/14/2017 08/14/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	1.1	
	2	0.000	-0.030	0.030	1.0	9.5

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-1-1

Lab Sample ID: 17G1254-06

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.13	0.0

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-1-3

Lab Sample ID: 17G1254-09

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	24	
	2	0.000	-0.030	0.030	24	0.0

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-7-1

Lab Sample ID: 17G1254-10

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	12	
	2	0.000	-0.030	0.030	12	0.0

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-7-2

Lab Sample ID: 17G1254-11

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	8.2	
	2	0.000	-0.030	0.030	7.7	6.3

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-7-3A

Lab Sample ID: 17G1254-12

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	10	
	2	0.000	-0.030	0.030	9.7	3.1

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-8-1

Lab Sample ID: 17G1254-14

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	5.5	
	2	0.000	-0.030	0.030	5.3	3.7

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-8-2

Lab Sample ID: 17G1254-15

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	44	
	2	0.000	-0.030	0.030	43	2.3

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-8-3

Lab Sample ID: 17G1254-16

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	17	
	2	0.000	-0.030	0.030	17	0.0

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-8-4A

Lab Sample ID: 17G1254-17

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.21	
	2	0.000	-0.030	0.030	0.20	4.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B183351-BS1

Date(s) Analyzed: 08/14/2017 08/14/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.20	5.1
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.17	11.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B183351-BSD1 Date(s) Analyzed: 08/14/2017 08/14/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.20	5.1
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.18	5.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B183351-MS1 Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.30	
	2	0.000	-0.030	0.030	0.32	6.5
Aroclor-1260	1	0.000	-0.030	0.030	1.2	
	2	0.000	-0.030	0.030	1.2	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B183351-MSD1 Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.32	
	2	0.000	-0.030	0.030	0.31	3.2
Aroclor-1260	1	0.000	-0.030	0.030	1.2	
	2	0.000	-0.030	0.030	1.2	0.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
SW-846 8270D in Water	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17G1254

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con-test ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
39 Spruce Street
East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	SVOCs	RSR 15 Metals	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
	~~WS-AOC13-SO-23-1A~~															
1	WS-AOC13-SO-24-4B	7/27/17	9:52		X	S	U		X							
2	WS-AOC13-SO-23-1A		10:00					X	~~X~~							
3	WS-AOC13-SO-23-1B		10:02					~~X~~				X				
4	WS-AOC13-SO-23-2		10:04					X	~~X~~							
5	WS-AOC13-SO-23-3		10:05					X	~~X~~							
6	WS-AOC7-SO-1-1		10:30					X								
7	WS-AOC7-SO-1-2A		10:32					X								
8	WS-AOC7-SO-1-2B		10:34							X						
9	WS-AOC7-SO-1-3		10:36					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:
WS-AOC13-SO-23-3 (MS-MSD)
Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
[signature] 7/27/17	1525
Received by: (signature) [signature]	Date/Time: 7/27/17 1525
Relinquished by: (signature) [signature] 7-27-17	Date/Time: 7:45
Received by: (signature) [signature] 7/27/17	Date/Time: 1985
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

Table of Contents

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con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	Coplanar PCBs	PAHs	ETPH	SVOCs	RSR 15 Metals	VOCs						# of Containers	[2] Preservation Code	[3] Container Code
10	WS-AOC7-SO-7-1	7/27/17	10:37		X	S	U	X													
11	WS-AOC7-SO-7-2		10:38					X													
12	WS-AOC7-SO-7-3A		10:39					X													
13	WS-AOC7-SO-7-3B		10:40							X											
14	WS-AOC7-SO-8-1		10:53					X													
15	WS-AOC7-SO-8-2		10:54					X													
16	WS-AOC7-SO-8-3		10:55					X													
17	WS-AOC7-SO-8-4A		10:56					X													
18	WS-AOC7-SO-8-4B		10:57							X		X									
19	WS-AOC7-SO-4-1		11:06					X													

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
7/27/17	1525
Received by: (signature)	Date/Time:
	7/27/17 1525
Relinquished by: (signature)	Date/Time:
7-27-17	7:45
Received by: (signature)	Date/Time:
7/27/17	1945
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By JM Date 7/27/17 Time 1945

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.0, 2.3, 2.1
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? F
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A Who was notified? ____
Are there Rushes? N/A Who was notified? ____
Are there Short Holds? N/A Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? ~~N/A~~ T (JM)
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A
Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	22
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\A080417\A0804042.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/4/17
Data File Name	A0804042.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.07	496930	540759	-8
c - 10	1.43	504684	540759	-7
c - 12	2.16	531774	540759	-2
c - 14	2.84	548652	540759	1
c - 16	3.44	561658	540759	4
c - 18	4.02	556185	540759	3
o-Terphenyl	4.30	591043	540759	
c - 20	4.63	564764	540759	4
c - 22	5.15	571232	540759	6
c - 24	5.60	531546	540759	-2
c - 26	6.00	557639	540759	3
c - 28	6.36	545631	540759	1
c - 30	6.69	541457	540759	0
c - 32	7.00	529841	540759	-2
c - 34	7.30	534051	540759	-1
c - 36	7.58	535342	540759	-1

* One compound allowed %D <= 50%

Samples

17G1258-10
17G1258-11
17G1188-01
17G1188-02
17G1188-03

D:\HPCHEM\1\DATA\A080417\A0804078.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/4/17
Data File Name	A0804078.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.07	451447	495950	-9
c - 10	1.43	453087	495950	-9
c - 12	2.16	479235	495950	-3
c - 14	2.84	491947	495950	-1
c - 16	3.44	506893	495950	2
c - 18	4.02	504487	495950	2
o-Terphenyl	4.31	554881	495950	
c - 20	4.63	517031	495950	4
c - 22	5.15	526767	495950	6
c - 24	5.60	494638	495950	0
c - 26	5.99	520797	495950	5
c - 28	6.35	509017	495950	3
c - 30	6.69	504152	495950	2
c - 32	7.00	490587	495950	-1
c - 34	7.29	493940	495950	0
c - 36	7.58	495218	495950	0

* One compound allowed %D <= 50%

Samples

17G1257-13
17G1257-18
17G1254-18
17G1169-17
17G1075-10@5X
17G1075-13@5X
17G1172-11
17G1074-19
17G1074-06@10X
17G1074-09@10X
17G1077-17RE1@20X

D:\HPCHEM\1\DATA\A080417.SEC\A0804079.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/4/17
Data File Name	A0804079.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	412622	444472	-7
c - 10	1.50	420598	444472	-5
c - 12	2.22	438402	444472	-1
c - 14	2.88	451044	444472	1
c - 16	3.48	459256	444472	3
c - 18	4.05	452050	444472	2
o-Terphenyl	4.35	491812	444472	
c - 20	4.66	458504	444472	3
c - 22	5.17	461579	444472	4
c - 24	5.61	429319	444472	-3
c - 26	6.01	451685	444472	2
c - 28	6.36	450715	444472	1
c - 30	6.70	447938	444472	1
c - 32	7.00	440516	444472	-1
c - 34	7.29	445571	444472	0
c - 36	7.57	447287	444472	1

* One compound allowed %D <= 50%

Samples

17G1254-08@20X
17G1254-13@10X
17G1169-09@5X
17G1172-03@20X
17G1172-07@10X
17G1257-01@5X
17G1257-09@10X
17G1257-11@10X
17G1257-14@5X
17G1257-17@10X
17G1255-03@20X

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17G1254

Laboratory Sample ID(s):

17G1254-01 thru 17G1254-19

Sample Date(s):

07/27/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 7470A, SW-846 7471B, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/16/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 18, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17G1255

Enclosed are results of analyses for samples received by the laboratory on July 27, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 8/18/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G1255

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC7-SO-4-2	17G1255-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-4-3A	17G1255-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-4-3B	17G1255-03	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8260C	
WS-AOC7-SO-2-1	17G1255-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-2-2	17G1255-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-2-3A	17G1255-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-2-3B	17G1255-07	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8260C	
WS-AOC7-SO-3-1	17G1255-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-3-2	17G1255-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-3-3A	17G1255-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-3-3B	17G1255-11	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8270D	
WS-AOC7-SO-5-1	17G1255-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-5-2	17G1255-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-5-3A	17G1255-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-5-3B	17G1255-15	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8270D	
WS-AOC7-SO-6-1	17G1255-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-6-2	17G1255-17	Soil		SM 2540G	
				SW-846 8082A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 8/18/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G1255

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC7-SO-6-3A	17G1255-18	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-6-3B	17G1255-19	Soil		CTDEP ETPH	
				SM 2540G	
WS-AOC7-SO-9-1	17G1255-20	Soil		SM 2540G	
				SW-846 8082A	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CTDEP ETPH

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

o-Terphenyl

17G1255-03[WS-AOC7-SO-4-3B], 17G1255-07[WS-AOC7-SO-2-3B], 17G1255-11[WS-AOC7-SO-3-3B], 17G1255-15[WS-AOC7-SO-5-3B]

SW-846 8082A

Qualifications:

MS-12

Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

Aroclor-1016 [2C]

B183374-MS1, B183374-MSD1

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl

17G1255-06[WS-AOC7-SO-2-3A], 17G1255-10[WS-AOC7-SO-3-3A]

Decachlorobiphenyl [2C]

17G1255-06[WS-AOC7-SO-2-3A], 17G1255-10[WS-AOC7-SO-3-3A]

Tetrachloro-m-xylene

17G1255-06[WS-AOC7-SO-2-3A], 17G1255-10[WS-AOC7-SO-3-3A]

Tetrachloro-m-xylene [2C]

17G1255-06[WS-AOC7-SO-2-3A], 17G1255-10[WS-AOC7-SO-3-3A]

SW-846 8260C

Qualifications:

L-01

Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

Analyte & Samples(s) Qualified:

trans-1,2-Dichloroethylene

B183153-BS1

L-03

Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Dichlorodifluoromethane (Freon 1

17G1255-03[WS-AOC7-SO-4-3B], 17G1255-07[WS-AOC7-SO-2-3B], B183153-BLK1, B183153-BS1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

Tetrahydrofuran

17G1255-03[WS-AOC7-SO-4-3B], 17G1255-07[WS-AOC7-SO-2-3B], B183153-BLK1

SW-846 8270D

Qualifications:

E

Reported result is estimated. Value reported over verified calibration range.

Analyte & Samples(s) Qualified:

Pyrene

17G1255-15[WS-AOC7-SO-5-3B]

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

RL-12

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

17G1255-11[WS-AOC7-SO-3-3B]

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-4-2 Sampled: 7/27/2017 11:07

Sample ID: 17G1255-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 19:12	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 19:12	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 19:12	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 19:12	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 19:12	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 19:12	TG
Aroclor-1260 [2]	0.14	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 19:12	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 19:12	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 19:12	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.7	30-150		8/17/17 19:12
Decachlorobiphenyl [2]	81.2	30-150		8/17/17 19:12
Tetrachloro-m-xylene [1]	78.6	30-150		8/17/17 19:12
Tetrachloro-m-xylene [2]	87.7	30-150		8/17/17 19:12

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-4-2 Sampled: 7/27/2017 11:07

Sample ID: 17G1255-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.8		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-4-3A Sampled: 7/27/2017 11:08

Sample ID: 17G1255-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 19:25	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 19:25	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 19:25	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 19:25	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 19:25	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 19:25	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 19:25	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 19:25	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 19:25	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	68.9	30-150		8/17/17 19:25
Decachlorobiphenyl [2]	74.4	30-150		8/17/17 19:25
Tetrachloro-m-xylene [1]	77.1	30-150		8/17/17 19:25
Tetrachloro-m-xylene [2]	86.3	30-150		8/17/17 19:25

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-4-3A Sampled: 7/27/2017 11:08

Sample ID: 17G1255-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.4		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-4-3B Sampled: 7/27/2017 11:09

Sample ID: 17G1255-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.066	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
Acrylonitrile	ND	0.0039	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
Benzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
Bromobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
Bromodichloromethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
Bromoform	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
Bromomethane	ND	0.0066	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
2-Butanone (MEK)	ND	0.026	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
n-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
sec-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
tert-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
Carbon Disulfide	ND	0.0039	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
Carbon Tetrachloride	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
Chlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
Chlorodibromomethane	ND	0.00066	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
Chloroethane	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
Chloroform	ND	0.0026	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
Chloromethane	ND	0.0066	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
2-Chlorotoluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
4-Chlorotoluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
1,2-Dibromoethane (EDB)	ND	0.00066	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
Dibromomethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
1,2-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
1,3-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
1,4-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
trans-1,4-Dichloro-2-butene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.013	mg/Kg dry	1	L-03	SW-846 8260C	8/2/17	8/2/17 15:42	MFF
1,1-Dichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
1,2-Dichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
1,1-Dichloroethylene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
cis-1,2-Dichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
trans-1,2-Dichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
1,2-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
1,3-Dichloropropane	ND	0.00066	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
2,2-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
1,1-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
cis-1,3-Dichloropropene	ND	0.00066	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
trans-1,3-Dichloropropene	ND	0.00066	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
Ethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
Hexachlorobutadiene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
2-Hexanone (MBK)	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
Isopropylbenzene (Cumene)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-4-3B Sampled: 7/27/2017 11:09

Sample ID: 17G1255-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0026	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
Methylene Chloride	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
Naphthalene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
n-Propylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
Styrene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
1,1,1,2-Tetrachloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
1,1,2,2-Tetrachloroethane	ND	0.0026	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
Tetrachloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
Tetrahydrofuran	ND	0.0066	mg/Kg dry	1	V-16	SW-846 8260C	8/2/17	8/2/17 15:42	MFF
Toluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
1,2,3-Trichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
1,2,4-Trichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
1,1,1-Trichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
1,1,2-Trichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
Trichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0066	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
1,2,3-Trichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0066	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
1,2,4-Trimethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
1,3,5-Trimethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
Vinyl Chloride	ND	0.0066	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
m+p Xylene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF
o-Xylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 15:42	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	104	70-130		8/2/17 15:42
Toluene-d8	106	70-130		8/2/17 15:42
4-Bromofluorobenzene	103	70-130		8/2/17 15:42

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-4-3B Sampled: 7/27/2017 11:09

Sample ID: 17G1255-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	4100	450	mg/Kg dry	20		CTDEP ETPH	8/3/17	8/5/17 2:40	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	8/5/17 2:40

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-4-3B Sampled: 7/27/2017 11:09

Sample ID: 17G1255-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.4		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-2-1 Sampled: 7/27/2017 11:10

Sample ID: 17G1255-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 19:38	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 19:38	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 19:38	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 19:38	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 19:38	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 19:38	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 19:38	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 19:38	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 19:38	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.0	30-150		8/17/17 19:38
Decachlorobiphenyl [2]	85.2	30-150		8/17/17 19:38
Tetrachloro-m-xylene [1]	78.7	30-150		8/17/17 19:38
Tetrachloro-m-xylene [2]	88.0	30-150		8/17/17 19:38

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-2-1 Sampled: 7/27/2017 11:10

Sample ID: 17G1255-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.7		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-2-2 Sampled: 7/27/2017 11:12

Sample ID: 17G1255-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 19:50	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 19:50	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 19:50	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 19:50	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 19:50	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 19:50	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 19:50	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 19:50	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 19:50	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.0	30-150		8/17/17 19:50
Decachlorobiphenyl [2]	91.0	30-150		8/17/17 19:50
Tetrachloro-m-xylene [1]	78.8	30-150		8/17/17 19:50
Tetrachloro-m-xylene [2]	86.1	30-150		8/17/17 19:50

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-2-2 Sampled: 7/27/2017 11:12

Sample ID: 17G1255-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.8		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-2-3A Sampled: 7/27/2017 11:14

Sample ID: 17G1255-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/18/17 10:34	TG
Aroclor-1221 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/18/17 10:34	TG
Aroclor-1232 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/18/17 10:34	TG
Aroclor-1242 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/18/17 10:34	TG
Aroclor-1248 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/18/17 10:34	TG
Aroclor-1254 [2]	4.6	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/18/17 10:34	TG
Aroclor-1260 [2]	9.8	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/18/17 10:34	TG
Aroclor-1262 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/18/17 10:34	TG
Aroclor-1268 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/18/17 10:34	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/18/17 10:34
Decachlorobiphenyl [2]	*	30-150	S-01	8/18/17 10:34
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/18/17 10:34
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/18/17 10:34

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-2-3A Sampled: 7/27/2017 11:14

Sample ID: 17G1255-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.6		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-2-3B Sampled: 7/27/2017 11:16

Sample ID: 17G1255-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.069	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
Acrylonitrile	ND	0.0041	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
Benzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
Bromobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
Bromodichloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
Bromoform	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
Bromomethane	ND	0.0069	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
2-Butanone (MEK)	ND	0.027	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
n-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
sec-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
tert-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
Carbon Disulfide	ND	0.0041	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
Carbon Tetrachloride	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
Chlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
Chlorodibromomethane	ND	0.00069	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
Chloroethane	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
Chloroform	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
Chloromethane	ND	0.0069	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
2-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
4-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
1,2-Dibromoethane (EDB)	ND	0.00069	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
Dibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
1,2-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
1,3-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
1,4-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
trans-1,4-Dichloro-2-butene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.014	mg/Kg dry	1	L-03	SW-846 8260C	8/2/17	8/2/17 16:10	MFF
1,1-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
1,2-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
1,1-Dichloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
cis-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
trans-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
1,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
1,3-Dichloropropane	ND	0.00069	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
2,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
1,1-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
cis-1,3-Dichloropropene	ND	0.00069	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
trans-1,3-Dichloropropene	ND	0.00069	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
Ethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
Hexachlorobutadiene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
2-Hexanone (MBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
Isopropylbenzene (Cumene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-2-3B Sampled: 7/27/2017 11:16

Sample ID: 17G1255-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
Methylene Chloride	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
Naphthalene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
n-Propylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
Styrene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
1,1,1,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
1,1,2,2-Tetrachloroethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
Tetrachloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
Tetrahydrofuran	ND	0.0069	mg/Kg dry	1	V-16	SW-846 8260C	8/2/17	8/2/17 16:10	MFF
Toluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
1,2,3-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
1,2,4-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
1,1,1-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
1,1,2-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
Trichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0069	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
1,2,3-Trichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0069	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
1,2,4-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
1,3,5-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
Vinyl Chloride	ND	0.0069	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
m+p Xylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF
o-Xylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/2/17	8/2/17 16:10	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		8/2/17 16:10
Toluene-d8	106	70-130		8/2/17 16:10
4-Bromofluorobenzene	107	70-130		8/2/17 16:10

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-2-3B Sampled: 7/27/2017 11:16

Sample ID: 17G1255-07

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	3500	1100	mg/Kg dry	100		CTDEP ETPH	8/3/17	8/6/17 21:10	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	8/6/17 21:10

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-2-3B Sampled: 7/27/2017 11:16

Sample ID: 17G1255-07

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.8	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:54	QNW
Arsenic	ND	2.8	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:54	QNW
Barium	15	2.8	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:54	QNW
Beryllium	ND	0.28	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:54	QNW
Cadmium	0.33	0.28	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:54	QNW
Chromium	11	0.56	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:54	QNW
Copper	36	0.56	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:54	QNW
Lead	17	0.83	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:54	QNW
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	8/3/17	8/5/17 13:16	TJK
Nickel	31	0.56	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:54	QNW
Selenium	ND	5.6	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:54	QNW
Silver	ND	0.56	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:54	QNW
Thallium	ND	2.8	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:54	QNW
Vanadium	350	1.1	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:54	QNW
Zinc	45	1.1	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:54	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-2-3B Sampled: 7/27/2017 11:16

Sample ID: 17G1255-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.7		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-3-1 Sampled: 7/27/2017 11:18

Sample ID: 17G1255-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 20:15	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 20:15	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 20:15	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 20:15	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 20:15	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 20:15	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 20:15	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 20:15	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 20:15	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	64.1	30-150		8/17/17 20:15
Decachlorobiphenyl [2]	71.4	30-150		8/17/17 20:15
Tetrachloro-m-xylene [1]	74.2	30-150		8/17/17 20:15
Tetrachloro-m-xylene [2]	90.9	30-150		8/17/17 20:15

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-3-1 Sampled: 7/27/2017 11:18

Sample ID: 17G1255-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.5		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-3-2 Sampled: 7/27/2017 11:20

Sample ID: 17G1255-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 21:44	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 21:44	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 21:44	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 21:44	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 21:44	TG
Aroclor-1254 [2]	0.17	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 21:44	TG
Aroclor-1260 [2]	0.59	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 21:44	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 21:44	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 21:44	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	65.0	30-150		8/17/17 21:44
Decachlorobiphenyl [2]	74.0	30-150		8/17/17 21:44
Tetrachloro-m-xylene [1]	73.9	30-150		8/17/17 21:44
Tetrachloro-m-xylene [2]	82.1	30-150		8/17/17 21:44

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-3-2 Sampled: 7/27/2017 11:20

Sample ID: 17G1255-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.9		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-3-3A Sampled: 7/27/2017 11:22

Sample ID: 17G1255-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/18/17 10:52	TG
Aroclor-1221 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/18/17 10:52	TG
Aroclor-1232 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/18/17 10:52	TG
Aroclor-1242 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/18/17 10:52	TG
Aroclor-1248 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/18/17 10:52	TG
Aroclor-1254 [2]	7.4	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/18/17 10:52	TG
Aroclor-1260 [2]	16	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/18/17 10:52	TG
Aroclor-1262 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/18/17 10:52	TG
Aroclor-1268 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/18/17 10:52	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/18/17 10:52
Decachlorobiphenyl [2]	*	30-150	S-01	8/18/17 10:52
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/18/17 10:52
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/18/17 10:52

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-3-3A Sampled: 7/27/2017 11:22

Sample ID: 17G1255-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.6		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-3-3B Sampled: 7/27/2017 11:24

Sample ID: 17G1255-11

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	1.5	mg/Kg dry	4		SW-846 8270D	8/3/17	8/4/17 21:32	BGL
Acenaphthylene	ND	1.5	mg/Kg dry	4		SW-846 8270D	8/3/17	8/4/17 21:32	BGL
Anthracene	ND	1.5	mg/Kg dry	4		SW-846 8270D	8/3/17	8/4/17 21:32	BGL
Benzo(a)anthracene	ND	1.5	mg/Kg dry	4		SW-846 8270D	8/3/17	8/4/17 21:32	BGL
Benzo(a)pyrene	ND	1.5	mg/Kg dry	4		SW-846 8270D	8/3/17	8/4/17 21:32	BGL
Benzo(b)fluoranthene	ND	1.5	mg/Kg dry	4		SW-846 8270D	8/3/17	8/4/17 21:32	BGL
Benzo(g,h,i)perylene	ND	1.5	mg/Kg dry	4		SW-846 8270D	8/3/17	8/4/17 21:32	BGL
Benzo(k)fluoranthene	ND	1.5	mg/Kg dry	4		SW-846 8270D	8/3/17	8/4/17 21:32	BGL
Chrysene	ND	1.5	mg/Kg dry	4		SW-846 8270D	8/3/17	8/4/17 21:32	BGL
Dibenz(a,h)anthracene	ND	1.5	mg/Kg dry	4		SW-846 8270D	8/3/17	8/4/17 21:32	BGL
Fluoranthene	ND	1.5	mg/Kg dry	4		SW-846 8270D	8/3/17	8/4/17 21:32	BGL
Fluorene	ND	1.5	mg/Kg dry	4		SW-846 8270D	8/3/17	8/4/17 21:32	BGL
Indeno(1,2,3-cd)pyrene	ND	1.5	mg/Kg dry	4		SW-846 8270D	8/3/17	8/4/17 21:32	BGL
2-Methylnaphthalene	ND	1.5	mg/Kg dry	4		SW-846 8270D	8/3/17	8/4/17 21:32	BGL
Naphthalene	ND	1.5	mg/Kg dry	4		SW-846 8270D	8/3/17	8/4/17 21:32	BGL
Phenanthrene	ND	1.5	mg/Kg dry	4		SW-846 8270D	8/3/17	8/4/17 21:32	BGL
Pyrene	3.2	1.5	mg/Kg dry	4		SW-846 8270D	8/3/17	8/4/17 21:32	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	41.9	30-130		8/4/17 21:32
2-Fluorobiphenyl	42.6	30-130		8/4/17 21:32
p-Terphenyl-d14	67.5	30-130		8/4/17 21:32

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-3-3B Sampled: 7/27/2017 11:24

Sample ID: 17G1255-11

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	4800	1100	mg/Kg dry	100		CTDEP ETPH	8/3/17	8/6/17 21:27	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	8/6/17 21:27

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-3-3B Sampled: 7/27/2017 11:24

Sample ID: 17G1255-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.2		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-5-1 Sampled: 7/27/2017 11:26

Sample ID: 17G1255-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:09	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:09	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:09	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:09	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:09	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:09	TG
Aroclor-1260 [2]	0.28	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:09	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:09	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:09	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	62.7	30-150		8/17/17 22:09
Decachlorobiphenyl [2]	69.8	30-150		8/17/17 22:09
Tetrachloro-m-xylene [1]	74.1	30-150		8/17/17 22:09
Tetrachloro-m-xylene [2]	87.6	30-150		8/17/17 22:09

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-5-1 Sampled: 7/27/2017 11:26

Sample ID: 17G1255-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.0		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-5-2 Sampled: 7/27/2017 11:27

Sample ID: 17G1255-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:22	TG
Aroclor-1221 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:22	TG
Aroclor-1232 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:22	TG
Aroclor-1242 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:22	TG
Aroclor-1248 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:22	TG
Aroclor-1254 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:22	TG
Aroclor-1260 [2]	0.20	0.16	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:22	TG
Aroclor-1262 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:22	TG
Aroclor-1268 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:22	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	59.9	30-150		8/17/17 22:22
Decachlorobiphenyl [2]	75.8	30-150		8/17/17 22:22
Tetrachloro-m-xylene [1]	76.7	30-150		8/17/17 22:22
Tetrachloro-m-xylene [2]	83.8	30-150		8/17/17 22:22

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-5-2 Sampled: 7/27/2017 11:27

Sample ID: 17G1255-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	63.5		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-5-3A Sampled: 7/27/2017 11:28

Sample ID: 17G1255-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:34	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:34	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:34	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:34	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:34	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:34	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:34	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:34	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:34	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	64.3	30-150		8/17/17 22:34
Decachlorobiphenyl [2]	72.5	30-150		8/17/17 22:34
Tetrachloro-m-xylene [1]	78.6	30-150		8/17/17 22:34
Tetrachloro-m-xylene [2]	86.9	30-150		8/17/17 22:34

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-5-3A Sampled: 7/27/2017 11:28

Sample ID: 17G1255-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.4		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-5-3B Sampled: 7/27/2017 11:29

Sample ID: 17G1255-15

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	2.2	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 20:33	BGL
Acenaphthene	ND	0.44	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 20:11	BGL
Acenaphthylene	ND	2.2	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 20:33	BGL
Acenaphthylene	ND	0.44	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 20:11	BGL
Anthracene	ND	2.2	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 20:33	BGL
Anthracene	1.7	0.44	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 20:11	BGL
Benzo(a)anthracene	5.1	2.2	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 20:33	BGL
Benzo(a)anthracene	5.1	0.44	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 20:11	BGL
Benzo(a)pyrene	5.4	2.2	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 20:33	BGL
Benzo(a)pyrene	5.9	0.44	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 20:11	BGL
Benzo(b)fluoranthene	5.2	2.2	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 20:33	BGL
Benzo(b)fluoranthene	5.8	0.44	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 20:11	BGL
Benzo(g,h,i)perylene	2.9	2.2	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 20:33	BGL
Benzo(g,h,i)perylene	3.3	0.44	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 20:11	BGL
Benzo(k)fluoranthene	ND	2.2	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 20:33	BGL
Benzo(k)fluoranthene	2.2	0.44	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 20:11	BGL
Chrysene	4.3	2.2	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 20:33	BGL
Chrysene	4.4	0.44	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 20:11	BGL
Dibenz(a,h)anthracene	ND	2.2	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 20:33	BGL
Dibenz(a,h)anthracene	0.69	0.44	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 20:11	BGL
Fluoranthene	7.9	2.2	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 20:33	BGL
Fluoranthene	9.9	0.44	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 20:11	BGL
Fluorene	ND	2.2	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 20:33	BGL
Fluorene	ND	0.44	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 20:11	BGL
Indeno(1,2,3-cd)pyrene	2.9	2.2	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 20:33	BGL
Indeno(1,2,3-cd)pyrene	3.0	0.44	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 20:11	BGL
2-Methylnaphthalene	ND	2.2	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 20:33	BGL
2-Methylnaphthalene	ND	0.44	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 20:11	BGL
Naphthalene	ND	2.2	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 20:33	BGL
Naphthalene	ND	0.44	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 20:11	BGL
Phenanthrene	3.6	2.2	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 20:33	BGL
Phenanthrene	4.0	0.44	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 20:11	BGL
Pyrene	19	2.2	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 20:33	BGL
Pyrene	23	0.44	mg/Kg dry	2	E	SW-846 8270D	8/3/17	8/5/17 20:11	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	34.4	30-130		8/5/17 20:33
Nitrobenzene-d5	37.8	30-130		8/5/17 20:11
2-Fluorobiphenyl	35.2	30-130		8/5/17 20:33
2-Fluorobiphenyl	37.8	30-130		8/5/17 20:11
p-Terphenyl-d14	48.8	30-130		8/5/17 20:33
p-Terphenyl-d14	48.6	30-130		8/5/17 20:11

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-5-3B Sampled: 7/27/2017 11:29

Sample ID: 17G1255-15

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	650	260	mg/Kg dry	20		CTDEP ETPH	8/3/17	8/7/17 14:01	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	8/7/17 14:01

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-5-3B Sampled: 7/27/2017 11:29

Sample ID: 17G1255-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.9		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-6-1 Sampled: 7/27/2017 11:20

Sample ID: 17G1255-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:47	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:47	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:47	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:47	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:47	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:47	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:47	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:47	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:47	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	68.6	30-150		8/17/17 22:47
Decachlorobiphenyl [2]	76.9	30-150		8/17/17 22:47
Tetrachloro-m-xylene [1]	81.1	30-150		8/17/17 22:47
Tetrachloro-m-xylene [2]	89.7	30-150		8/17/17 22:47

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-6-1 Sampled: 7/27/2017 11:20

Sample ID: 17G1255-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.8		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-6-2 Sampled: 7/27/2017 11:22

Sample ID: 17G1255-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:59	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:59	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:59	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:59	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:59	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:59	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:59	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:59	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 22:59	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	65.0	30-150		8/17/17 22:59
Decachlorobiphenyl [2]	75.9	30-150		8/17/17 22:59
Tetrachloro-m-xylene [1]	76.5	30-150		8/17/17 22:59
Tetrachloro-m-xylene [2]	86.1	30-150		8/17/17 22:59

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-6-2 Sampled: 7/27/2017 11:22

Sample ID: 17G1255-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.9		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-6-3A Sampled: 7/27/2017 11:24

Sample ID: 17G1255-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 23:12	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 23:12	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 23:12	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 23:12	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 23:12	TG
Aroclor-1254 [2]	0.33	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 23:12	TG
Aroclor-1260 [2]	0.89	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 23:12	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 23:12	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 23:12	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	67.1	30-150		8/17/17 23:12
Decachlorobiphenyl [2]	73.0	30-150		8/17/17 23:12
Tetrachloro-m-xylene [1]	77.7	30-150		8/17/17 23:12
Tetrachloro-m-xylene [2]	86.6	30-150		8/17/17 23:12

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-6-3A Sampled: 7/27/2017 11:24

Sample ID: 17G1255-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.6		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-6-3B Sampled: 7/27/2017 11:26

Sample ID: 17G1255-19

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	82	64	mg/Kg dry	5		CTDEP ETPH	8/3/17	8/7/17 14:19	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	77.0	50-150		8/7/17 14:19

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-6-3B Sampled: 7/27/2017 11:26

Sample ID: 17G1255-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.7		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-9-1 Sampled: 7/27/2017 13:10

Sample ID: 17G1255-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 23:25	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 23:25	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 23:25	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 23:25	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 23:25	TG
Aroclor-1254 [2]	0.12	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 23:25	TG
Aroclor-1260 [2]	0.46	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 23:25	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 23:25	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/17/17 23:25	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	59.3	30-150		8/17/17 23:25
Decachlorobiphenyl [2]	83.4	30-150		8/17/17 23:25
Tetrachloro-m-xylene [1]	70.7	30-150		8/17/17 23:25
Tetrachloro-m-xylene [2]	79.1	30-150		8/17/17 23:25

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1255

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-9-1 Sampled: 7/27/2017 13:10

Sample ID: 17G1255-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.4		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1255-03 [WS-AOC7-SO-4-3B]	B183276	30.0	2.00	08/03/17
17G1255-07 [WS-AOC7-SO-2-3B]	B183276	30.0	1.00	08/03/17
17G1255-11 [WS-AOC7-SO-3-3B]	B183276	30.0	1.00	08/03/17
17G1255-15 [WS-AOC7-SO-5-3B]	B183276	30.0	1.00	08/03/17
17G1255-19 [WS-AOC7-SO-6-3B]	B183276	30.0	1.00	08/03/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G1255-01 [WS-AOC7-SO-4-2]	B183217	08/03/17
17G1255-02 [WS-AOC7-SO-4-3A]	B183217	08/03/17
17G1255-03 [WS-AOC7-SO-4-3B]	B183217	08/03/17
17G1255-04 [WS-AOC7-SO-2-1]	B183217	08/03/17
17G1255-05 [WS-AOC7-SO-2-2]	B183217	08/03/17
17G1255-06 [WS-AOC7-SO-2-3A]	B183217	08/03/17
17G1255-07 [WS-AOC7-SO-2-3B]	B183217	08/03/17
17G1255-08 [WS-AOC7-SO-3-1]	B183217	08/03/17
17G1255-09 [WS-AOC7-SO-3-2]	B183217	08/03/17
17G1255-10 [WS-AOC7-SO-3-3A]	B183217	08/03/17
17G1255-11 [WS-AOC7-SO-3-3B]	B183217	08/03/17
17G1255-12 [WS-AOC7-SO-5-1]	B183217	08/03/17
17G1255-13 [WS-AOC7-SO-5-2]	B183217	08/03/17
17G1255-14 [WS-AOC7-SO-5-3A]	B183217	08/03/17
17G1255-15 [WS-AOC7-SO-5-3B]	B183217	08/03/17
17G1255-16 [WS-AOC7-SO-6-1]	B183217	08/03/17
17G1255-17 [WS-AOC7-SO-6-2]	B183217	08/03/17
17G1255-18 [WS-AOC7-SO-6-3A]	B183217	08/03/17
17G1255-19 [WS-AOC7-SO-6-3B]	B183217	08/03/17
17G1255-20 [WS-AOC7-SO-9-1]	B183217	08/03/17

Prep Method: SW-846 3050B-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1255-07 [WS-AOC7-SO-2-3B]	B183203	1.01	50.0	08/03/17

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1255-07 [WS-AOC7-SO-2-3B]	B183214	0.615	50.0	08/03/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1255-01 [WS-AOC7-SO-4-2]	B183374	10.0	10.0	08/04/17
17G1255-02 [WS-AOC7-SO-4-3A]	B183374	10.0	10.0	08/04/17
17G1255-04 [WS-AOC7-SO-2-1]	B183374	10.0	10.0	08/04/17
17G1255-05 [WS-AOC7-SO-2-2]	B183374	10.0	10.0	08/04/17
17G1255-06 [WS-AOC7-SO-2-3A]	B183374	10.0	10.0	08/04/17
17G1255-08 [WS-AOC7-SO-3-1]	B183374	10.0	10.0	08/04/17
17G1255-09 [WS-AOC7-SO-3-2]	B183374	10.0	10.0	08/04/17

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1255-10 [WS-AOC7-SO-3-3A]	B183374	10.0	10.0	08/04/17
17G1255-12 [WS-AOC7-SO-5-1]	B183374	10.0	10.0	08/04/17
17G1255-13 [WS-AOC7-SO-5-2]	B183374	10.0	10.0	08/04/17
17G1255-14 [WS-AOC7-SO-5-3A]	B183374	10.0	10.0	08/04/17
17G1255-16 [WS-AOC7-SO-6-1]	B183374	10.0	10.0	08/04/17
17G1255-17 [WS-AOC7-SO-6-2]	B183374	10.0	10.0	08/04/17
17G1255-18 [WS-AOC7-SO-6-3A]	B183374	10.0	10.0	08/04/17
17G1255-20 [WS-AOC7-SO-9-1]	B183374	10.0	10.0	08/04/17

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1255-03 [WS-AOC7-SO-4-3B]	B183153	8.63	10.0	08/02/17
17G1255-07 [WS-AOC7-SO-2-3B]	B183153	8.20	10.0	08/02/17

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1255-11 [WS-AOC7-SO-3-3B]	B183204	30.0	2.00	08/03/17
17G1255-15 [WS-AOC7-SO-5-3B]	B183204	30.0	1.00	08/03/17
17G1255-15RE1 [WS-AOC7-SO-5-3B]	B183204	30.0	1.00	08/03/17

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183153 - SW-846 5035										
Blank (B183153-BLK1)				Prepared & Analyzed: 08/02/17						
Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							L-03
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B183153 - SW-846 5035											
Blank (B183153-BLK1)				Prepared & Analyzed: 08/02/17							
Tetrachloroethylene	ND	0.0020	mg/Kg wet								
Tetrahydrofuran	ND	0.010	mg/Kg wet								V-16
Toluene	ND	0.0020	mg/Kg wet								
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet								
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet								
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet								
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet								
Trichloroethylene	ND	0.0020	mg/Kg wet								
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet								
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet								
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet								
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet								
Vinyl Chloride	ND	0.010	mg/Kg wet								
m+p Xylene	ND	0.0040	mg/Kg wet								
o-Xylene	ND	0.0020	mg/Kg wet								
Surrogate: 1,2-Dichloroethane-d4	*0.0500*		mg/Kg wet	0.0500		100		70-130			
Surrogate: Toluene-d8	*0.0521*		mg/Kg wet	0.0500		104		70-130			
Surrogate: 4-Bromofluorobenzene	*0.0517*		mg/Kg wet	0.0500		103		70-130			
LCS (B183153-BS1)				Prepared & Analyzed: 08/02/17							
Acetone	0.181	0.10	mg/Kg wet	0.200		90.3		70-130			
Acrylonitrile	0.0253	0.0060	mg/Kg wet	0.0200		127		70-130			
Benzene	0.0198	0.0020	mg/Kg wet	0.0200		99.0		70-130			
Bromobenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.6		70-130			
Bromodichloromethane	0.0182	0.0020	mg/Kg wet	0.0200		90.8		70-130			
Bromoform	0.0179	0.0020	mg/Kg wet	0.0200		89.7		70-130			
Bromomethane	0.0157	0.010	mg/Kg wet	0.0200		78.6		70-130			
2-Butanone (MEK)	0.241	0.040	mg/Kg wet	0.200		121		70-130			
n-Butylbenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.0		70-130			
sec-Butylbenzene	0.0221	0.0020	mg/Kg wet	0.0200		110		70-130			
tert-Butylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106		70-130			
Carbon Disulfide	0.0206	0.0060	mg/Kg wet	0.0200		103		70-130			
Carbon Tetrachloride	0.0200	0.0020	mg/Kg wet	0.0200		99.9		70-130			
Chlorobenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.6		70-130			
Chlorodibromomethane	0.0204	0.0010	mg/Kg wet	0.0200		102		70-130			
Chloroethane	0.0177	0.020	mg/Kg wet	0.0200		88.3		70-130			
Chloroform	0.0189	0.0040	mg/Kg wet	0.0200		94.4		70-130			
Chloromethane	0.0175	0.010	mg/Kg wet	0.0200		87.3		70-130			
2-Chlorotoluene	0.0198	0.0020	mg/Kg wet	0.0200		99.2		70-130			
4-Chlorotoluene	0.0188	0.0020	mg/Kg wet	0.0200		93.8		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0211	0.0020	mg/Kg wet	0.0200		105		70-130			
1,2-Dibromoethane (EDB)	0.0199	0.0010	mg/Kg wet	0.0200		99.6		70-130			
Dibromomethane	0.0198	0.0020	mg/Kg wet	0.0200		98.9		70-130			
1,2-Dichlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.9		70-130			
1,3-Dichlorobenzene	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130			
1,4-Dichlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.7		70-130			
trans-1,4-Dichloro-2-butene	0.0215	0.0040	mg/Kg wet	0.0200		108		70-130			
Dichlorodifluoromethane (Freon 12)	0.0125	0.020	mg/Kg wet	0.0200		**62.4**	*	70-130			L-03
1,1-Dichloroethane	0.0226	0.0020	mg/Kg wet	0.0200		113		70-130			
1,2-Dichloroethane	0.0218	0.0020	mg/Kg wet	0.0200		109		70-130			
1,1-Dichloroethylene	0.0211	0.0040	mg/Kg wet	0.0200		105		70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B183153 - SW-846 5035											
LCS (B183153-BS1)				Prepared & Analyzed: 08/02/17							
cis-1,2-Dichloroethylene	0.0207	0.0020	mg/Kg wet	0.0200		104		70-130			
trans-1,2-Dichloroethylene	0.0261	0.0020	mg/Kg wet	0.0200		**131**	*	70-130			L-01
1,2-Dichloropropane	0.0226	0.0020	mg/Kg wet	0.0200		113		70-130			
1,3-Dichloropropane	0.0192	0.0010	mg/Kg wet	0.0200		96.2		70-130			
2,2-Dichloropropane	0.0205	0.0020	mg/Kg wet	0.0200		102		70-130			
1,1-Dichloropropene	0.0197	0.0020	mg/Kg wet	0.0200		98.5		70-130			
cis-1,3-Dichloropropene	0.0184	0.0010	mg/Kg wet	0.0200		91.9		70-130			
trans-1,3-Dichloropropene	0.0198	0.0010	mg/Kg wet	0.0200		99.2		70-130			
Ethylbenzene	0.0186	0.0020	mg/Kg wet	0.0200		93.1		70-130			
Hexachlorobutadiene	0.0231	0.0020	mg/Kg wet	0.0200		115		70-130			
2-Hexanone (MBK)	0.245	0.020	mg/Kg wet	0.200		122		70-130			
Isopropylbenzene (Cumene)	0.0211	0.0020	mg/Kg wet	0.0200		106		70-130			
p-Isopropyltoluene (p-Cymene)	0.0208	0.0020	mg/Kg wet	0.0200		104		70-130			
Methyl tert-Butyl Ether (MTBE)	0.0193	0.0040	mg/Kg wet	0.0200		96.7		70-130			
Methylene Chloride	0.0240	0.020	mg/Kg wet	0.0200		120		70-130			
4-Methyl-2-pentanone (MIBK)	0.247	0.020	mg/Kg wet	0.200		124		70-130			
Naphthalene	0.0181	0.0040	mg/Kg wet	0.0200		90.3		70-130			
n-Propylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.0		70-130			
Styrene	0.0195	0.0020	mg/Kg wet	0.0200		97.3		70-130			
1,1,1,2-Tetrachloroethane	0.0189	0.0020	mg/Kg wet	0.0200		94.6		70-130			
1,1,2,2-Tetrachloroethane	0.0185	0.0010	mg/Kg wet	0.0200		92.6		70-130			
Tetrachloroethylene	0.0230	0.0020	mg/Kg wet	0.0200		115		70-130			
Tetrahydrofuran	0.0191	0.010	mg/Kg wet	0.0200		95.4		70-130			
Toluene	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130			
1,2,3-Trichlorobenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.1		70-130			
1,2,4-Trichlorobenzene	0.0200	0.0020	mg/Kg wet	0.0200		100		70-130			
1,1,1-Trichloroethane	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130			
1,1,2-Trichloroethane	0.0193	0.0020	mg/Kg wet	0.0200		96.7		70-130			
Trichloroethylene	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130			
Trichlorofluoromethane (Freon 11)	0.0209	0.010	mg/Kg wet	0.0200		104		70-130			
1,2,3-Trichloropropane	0.0203	0.0020	mg/Kg wet	0.0200		102		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0209	0.010	mg/Kg wet	0.0200		104		70-130			
1,2,4-Trimethylbenzene	0.0206	0.0020	mg/Kg wet	0.0200		103		70-130			
1,3,5-Trimethylbenzene	0.0200	0.0020	mg/Kg wet	0.0200		100		70-130			
Vinyl Chloride	0.0179	0.010	mg/Kg wet	0.0200		89.3		70-130			
m+p Xylene	0.0381	0.0040	mg/Kg wet	0.0400		95.2		70-130			
o-Xylene	0.0187	0.0020	mg/Kg wet	0.0200		93.4		70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0520*		mg/Kg wet	0.0500		104		70-130			
Surrogate: Toluene-d8	*0.0537*		mg/Kg wet	0.0500		107		70-130			
Surrogate: 4-Bromofluorobenzene	*0.0519*		mg/Kg wet	0.0500		104		70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183204 - SW-846 3546										
Blank (B183204-BLK1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.14*		mg/Kg wet	3.33		64.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.15*		mg/Kg wet	3.33		64.4	30-130			
Surrogate: p-Terphenyl-d14	*2.52*		mg/Kg wet	3.33		75.7	30-130			
LCS (B183204-BS1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140			
Acenaphthylene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140			
Anthracene	1.08	0.17	mg/Kg wet	1.67		64.8	40-140			
Benzo(a)anthracene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140			
Benzo(a)pyrene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Benzo(b)fluoranthene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140			
Benzo(g,h,i)perylene	0.934	0.17	mg/Kg wet	1.67		56.0	40-140			
Benzo(k)fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140			
Chrysene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140			
Dibenz(a,h)anthracene	0.917	0.17	mg/Kg wet	1.67		55.0	40-140			
Fluoranthene	1.03	0.17	mg/Kg wet	1.67		62.0	40-140			
Fluorene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140			
Indeno(1,2,3-cd)pyrene	0.941	0.17	mg/Kg wet	1.67		56.5	40-140			
2-Methylnaphthalene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140			
Naphthalene	1.11	0.17	mg/Kg wet	1.67		66.6	40-140			
Phenanthrene	1.09	0.17	mg/Kg wet	1.67		65.4	40-140			
Pyrene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Surrogate: Nitrobenzene-d5	*2.64*		mg/Kg wet	3.33		79.3	30-130			
Surrogate: 2-Fluorobiphenyl	*2.63*		mg/Kg wet	3.33		78.9	30-130			
Surrogate: p-Terphenyl-d14	*2.55*		mg/Kg wet	3.33		76.5	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183204 - SW-846 3546										
LCS Dup (B183204-BSD1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	1.00	0.17	mg/Kg wet	1.67		60.3	40-140	8.39	30	
Acenaphthylene	1.00	0.17	mg/Kg wet	1.67		60.1	40-140	10.1	30	
Anthracene	1.01	0.17	mg/Kg wet	1.67		60.9	40-140	6.27	30	
Benzo(a)anthracene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140	6.55	30	
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	4.07	30	
Benzo(b)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	5.53	30	
Benzo(g,h,i)perylene	0.891	0.17	mg/Kg wet	1.67		53.5	40-140	4.68	30	
Benzo(k)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	2.69	30	
Chrysene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140	5.47	30	
Dibenz(a,h)anthracene	0.882	0.17	mg/Kg wet	1.67		52.9	40-140	3.89	30	
Fluoranthene	0.965	0.17	mg/Kg wet	1.67		57.9	40-140	6.90	30	
Fluorene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	11.1	30	
Indeno(1,2,3-cd)pyrene	0.869	0.17	mg/Kg wet	1.67		52.1	40-140	7.96	30	
2-Methylnaphthalene	1.04	0.17	mg/Kg wet	1.67		62.7	40-140	13.3	30	
Naphthalene	0.964	0.17	mg/Kg wet	1.67		57.8	40-140	14.1	30	
Phenanthrene	1.01	0.17	mg/Kg wet	1.67		60.7	40-140	7.46	30	
Pyrene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140	6.35	30	
Surrogate: Nitrobenzene-d5	*2.27*		mg/Kg wet	3.33		68.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.38*		mg/Kg wet	3.33		71.4	30-130			
Surrogate: p-Terphenyl-d14	*2.40*		mg/Kg wet	3.33		72.1	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183374 - SW-846 3540C										
Blank (B183374-BLK1)				Prepared: 08/04/17 Analyzed: 08/17/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.187*		mg/Kg wet	0.200		93.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.177*		mg/Kg wet	0.200		88.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.175*		mg/Kg wet	0.200		87.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.187*		mg/Kg wet	0.200		93.6	30-150			
LCS (B183374-BS1)				Prepared: 08/04/17 Analyzed: 08/17/17						
Aroclor-1016	0.14	0.020	mg/Kg wet	0.200		72.2	40-140			
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		76.8	40-140			
Aroclor-1260	0.13	0.020	mg/Kg wet	0.200		65.0	40-140			
Aroclor-1260 [2C]	0.13	0.020	mg/Kg wet	0.200		66.8	40-140			
Surrogate: Decachlorobiphenyl	*0.176*		mg/Kg wet	0.200		87.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.169*		mg/Kg wet	0.200		84.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.165*		mg/Kg wet	0.200		82.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.178*		mg/Kg wet	0.200		88.9	30-150			
LCS Dup (B183374-BSD1)				Prepared: 08/04/17 Analyzed: 08/17/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		77.8	40-140	7.47	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		84.4	40-140	9.41	30	
Aroclor-1260	0.14	0.020	mg/Kg wet	0.200		70.4	40-140	7.91	30	
Aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.200		71.4	40-140	6.74	30	
Surrogate: Decachlorobiphenyl	*0.188*		mg/Kg wet	0.200		94.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.183*		mg/Kg wet	0.200		91.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.179*		mg/Kg wet	0.200		89.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.191*		mg/Kg wet	0.200		95.3	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B183374 - SW-846 3540C											
Matrix Spike (B183374-MS1)		**Source: 17G1255-01**		Prepared: 08/04/17 Analyzed: 08/17/17							
Aroclor-1016	0.27	0.12	mg/Kg dry	0.236	ND	112		40-140			
Aroclor-1016 [2C]	0.37	0.12	mg/Kg dry	0.236	ND	**159**	*	40-140			MS-12
Aroclor-1260	0.24	0.12	mg/Kg dry	0.236	0.10	56.8		40-140			
Aroclor-1260 [2C]	0.30	0.12	mg/Kg dry	0.236	0.14	65.4		40-140			
Surrogate: Decachlorobiphenyl	*0.152*		mg/Kg dry	0.236		64.4		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.186*		mg/Kg dry	0.236		78.8		30-150			
Surrogate: Tetrachloro-m-xylene	*0.193*		mg/Kg dry	0.236		81.9		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.211*		mg/Kg dry	0.236		89.3		30-150			
Matrix Spike Dup (B183374-MSD1)		**Source: 17G1255-01**		Prepared: 08/04/17 Analyzed: 08/17/17							
Aroclor-1016	0.29	0.12	mg/Kg dry	0.236	ND	125		40-140	10.2	50	
Aroclor-1016 [2C]	0.41	0.12	mg/Kg dry	0.236	ND	**174**	*	40-140	9.27	50	MS-12
Aroclor-1260	0.24	0.12	mg/Kg dry	0.236	0.10	56.0		40-140	0.753	50	
Aroclor-1260 [2C]	0.30	0.12	mg/Kg dry	0.236	0.14	65.9		40-140	0.384	50	
Surrogate: Decachlorobiphenyl	*0.160*		mg/Kg dry	0.236		67.8		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.201*		mg/Kg dry	0.236		85.4		30-150			
Surrogate: Tetrachloro-m-xylene	*0.203*		mg/Kg dry	0.236		86.3		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.224*		mg/Kg dry	0.236		95.0		30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183276 - SW-846 3546										
Blank (B183276-BLK1)				Prepared: 08/03/17 Analyzed: 08/04/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.29*		mg/Kg wet	3.33		98.8	50-150			
LCS (B183276-BS1)				Prepared: 08/03/17 Analyzed: 08/04/17						
CT ETPH	28.8	10	mg/Kg wet	33.3		86.3	60-120			
Surrogate: o-Terphenyl	*2.70*		mg/Kg wet	3.33		80.9	50-150			
LCS Dup (B183276-BSD1)				Prepared: 08/03/17 Analyzed: 08/04/17						
CT ETPH	30.5	10	mg/Kg wet	33.3		91.6	60-120	5.93	30	
Surrogate: o-Terphenyl	*2.84*		mg/Kg wet	3.33		85.3	50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183203 - SW-846 3050B										
Blank (B183203-BLK1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							
LCS (B183203-BS1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Antimony	72.0	5.0	mg/Kg wet	88.2		81.6	0-210.3			
Arsenic	55.2	5.0	mg/Kg wet	57.0		96.8	77.8-122.1			
Barium	108	5.0	mg/Kg wet	110		98.2	82-117.4			
Beryllium	68.1	0.50	mg/Kg wet	67.5		101	82.3-117.7			
Cadmium	77.4	0.50	mg/Kg wet	77.8		99.5	81.9-118.2			
Chromium	63.7	1.0	mg/Kg wet	65.0		97.9	78.7-120.6			
Copper	58.6	1.0	mg/Kg wet	56.4		104	80.4-119.6			
Lead	84.3	1.5	mg/Kg wet	85.6		98.5	82.4-117.8			
Nickel	59.7	1.0	mg/Kg wet	61.3		97.3	82.2-117.8			
Selenium	75.4	10	mg/Kg wet	78.9		95.6	77.1-122.3			
Silver	54.1	1.0	mg/Kg wet	54.2		99.7	74.3-125.4			
Thallium	192	5.0	mg/Kg wet	178		108	78.2-121.6			
Vanadium	54.6	2.0	mg/Kg wet	56.3		96.9	64.8-135.2			
Zinc	191	2.0	mg/Kg wet	198		96.5	79.7-120.8			
LCS Dup (B183203-BSD1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Antimony	69.8	5.1	mg/Kg wet	88.2		79.1	0-210.3	3.12	30	
Arsenic	56.0	5.1	mg/Kg wet	57.0		98.2	77.8-122.1	1.41	30	
Barium	106	5.1	mg/Kg wet	110		96.6	82-117.4	1.62	30	
Beryllium	67.7	0.51	mg/Kg wet	67.5		100	82.3-117.7	0.566	30	
Cadmium	78.4	0.51	mg/Kg wet	77.8		101	81.9-118.2	1.24	30	
Chromium	62.3	1.0	mg/Kg wet	65.0		95.8	78.7-120.6	2.18	30	
Copper	58.8	1.0	mg/Kg wet	56.4		104	80.4-119.6	0.296	30	
Lead	82.9	1.5	mg/Kg wet	85.6		96.9	82.4-117.8	1.69	30	
Nickel	60.9	1.0	mg/Kg wet	61.3		99.3	82.2-117.8	2.05	30	
Selenium	75.6	10	mg/Kg wet	78.9		95.8	77.1-122.3	0.247	30	
Silver	53.7	1.0	mg/Kg wet	54.2		99.1	74.3-125.4	0.626	30	
Thallium	189	5.1	mg/Kg wet	178		106	78.2-121.6	1.54	30	
Vanadium	52.7	2.0	mg/Kg wet	56.3		93.5	64.8-135.2	3.54	30	
Zinc	190	2.0	mg/Kg wet	198		96.1	79.7-120.8	0.393	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183203 - SW-846 3050B										
MRL Check (B183203-MRL1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Lead	0.863	0.72	mg/Kg wet	0.722		120	80-120			
Batch B183214 - SW-846 7471										
Blank (B183214-BLK1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Mercury	ND	0.025	mg/Kg wet							
LCS (B183214-BS1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Mercury	9.76	1.9	mg/Kg wet	9.36		104	73.7-126.3			
LCS Dup (B183214-BSD1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Mercury	9.10	1.9	mg/Kg wet	9.36		97.2	73.7-126.3	7.05	30	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183217 - % Solids										
Duplicate (B183217-DUP3)		**Source: 17G1255-01**		Prepared: 08/03/17 Analyzed: 08/04/17						
% Solids	84.7		% Wt		84.8			0.118	20	
Duplicate (B183217-DUP4)		**Source: 17G1255-02**		Prepared: 08/03/17 Analyzed: 08/04/17						
% Solids	86.7		% Wt		85.4			1.51	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-2-3A

Lab Sample ID: 17G1255-06

Date(s) Analyzed: 08/18/2017 08/18/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	3.4	
	2	0.000	-0.030	0.030	4.6	30.0
Aroclor-1260	1	0.000	-0.030	0.030	9.6	
	2	0.000	-0.030	0.030	9.8	2.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-3-2

Lab Sample ID: 17G1255-09

Date(s) Analyzed: 08/17/2017 08/17/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.17	26.7
Aroclor-1260	1	0.000	-0.030	0.030	0.55	
	2	0.000	-0.030	0.030	0.59	7.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-3-3A

Lab Sample ID: 17G1255-10

Date(s) Analyzed: 08/18/2017 08/18/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	5.5	
	2	0.000	-0.030	0.030	7.4	29.5
Aroclor-1260	1	0.000	-0.030	0.030	16	
	2	0.000	-0.030	0.030	16	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-5-1

Lab Sample ID: 17G1255-12

Date(s) Analyzed: 08/17/2017 08/17/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.24	
	2	0.000	-0.030	0.030	0.28	15.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-5-2

Lab Sample ID: 17G1255-13

Date(s) Analyzed: 08/17/2017 08/17/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.20	10.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-6-3A

Lab Sample ID: 17G1255-18

Date(s) Analyzed: 08/17/2017 08/17/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.27	
	2	0.000	-0.030	0.030	0.33	20.0
Aroclor-1260	1	0.000	-0.030	0.030	0.86	
	2	0.000	-0.030	0.030	0.89	3.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-9-1

Lab Sample ID: 17G1255-20

Date(s) Analyzed: 08/17/2017 08/17/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.42	
	2	0.000	-0.030	0.030	0.46	9.1

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
E	Reported result is estimated. Value reported over verified calibration range.
L-01	Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
MS-12	Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
RL-12	Elevated reporting limit due to matrix interference.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
trans-1,4-Dichloro-2-butene	NY
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NH,NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

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39 Spruce Street
East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	SVOCs	RSR 15 Metals	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC7-SO-4-2	7/27/17	11:07		X	S	U	X								
2	WS-AOC7-SO-4-3A		11:08					X								
3	WS-AOC7-SO-4-3B		11:09							X			X			
4	WS-AOC7-SO-2-1		11:10					X								
5	WS-AOC7-SO-2-2		11:12					X								
6	WS-AOC-SO-2-3A		11:14					X								
7	WS-AOC7-SO-2-3B		11:16							X		X	X			
8	WS-AOC7-SO-3-1		11:18					X								
9	WS-AOC7-SO-3-2		11:20					X								
10	WS-AOC7-SO-3-3A		11:22					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
7/27/17	1525
Received by: (signature)	Date/Time:
	7/27/17 1525
Relinquished by: (signature)	Date/Time:
	7-27-17 7:44
Received by: (signature)	Date/Time:
	7/27/17 1985
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
7/27/17 1945
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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17G 1255

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	Soxhlet PCBs	PAHs	ETPH	SVOCs	RSR 15 Metals	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC7-SO-3-3B	7/27/17	11:24		X	S	V		X	X						
12	WS-AOC7-SO-5-1		11:26					X	X							
13	WS-AOC7-SO-5-2		11:27					X	X							
14	WS-AOC7-SO-5-3A		11:28					X	X							
15	WS-AOC7-SO-5-3B		11:29						X	V						
16	WS-AOC7-SO-6-1		11:20					X								
17	WS-AOC7-SO-6-2		11:22					X								
18	WS-AOC7-SO-6-3A		11:24					X								
19	WS-AOC7-SO-6-3B		11:26							X						
20	WS-AOC7-SO-9-1		13:10					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
[signature] 7/27/17	1525
Received by: (signature)	Date/Time:
[signature]	7/27/17 1525
Relinquished by: (signature)	Date/Time:
[signature] 7-27-17	7:45
Received by: (signature)	Date/Time:
[signature] 7/27/17	1945
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
7/27/17 1945
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By JM Date 7/27/17 Time 1945

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.0, 2.3, 2.1
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? F
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A Who was notified? ____
Are there Rushes? N/A Who was notified? ____
Are there Short Holds? N/A Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? N/A
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A
Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	20
Meoh-	2	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-	4	Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen: 7/27/17 1945	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\A080417.SEC\A0804079.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/4/17
Data File Name	A0804079.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	412622	444472	-7
c - 10	1.50	420598	444472	-5
c - 12	2.22	438402	444472	-1
c - 14	2.88	451044	444472	1
c - 16	3.48	459256	444472	3
c - 18	4.05	452050	444472	2
o-Terphenyl	4.35	491812	444472	
c - 20	4.66	458504	444472	3
c - 22	5.17	461579	444472	4
c - 24	5.61	429319	444472	-3
c - 26	6.01	451685	444472	2
c - 28	6.36	450715	444472	1
c - 30	6.70	447938	444472	1
c - 32	7.00	440516	444472	-1
c - 34	7.29	445571	444472	0
c - 36	7.57	447287	444472	1

* One compound allowed %D <= 50%

Samples

17G1254-08@20X
17G1254-13@10X
17G1169-09@5X
17G1172-03@20X
17G1172-07@10X
17G1257-01@5X
17G1257-09@10X
17G1257-11@10X
17G1257-14@5X
17G1257-17@10X
17G1255-03@20X

D:\HPCHEM\1\DATA\A080617.SEC\A0806007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/6/17
Data File Name	A0806007.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	498947	548960	-9
c - 10	1.63	504890	548960	-8
c - 12	2.35	523064	548960	-5
c - 14	3.01	538273	548960	-2
c - 16	3.62	554877	548960	1
c - 18	4.23	552045	548960	1
o-Terphenyl	4.51	617304	548960	
c - 20	4.84	564142	548960	3
c - 22	5.34	578309	548960	5
c - 24	5.78	544489	548960	-1
c - 26	6.17	578509	548960	5
c - 28	6.53	572642	548960	4
c - 30	6.86	570509	548960	4
c - 32	7.17	554065	548960	1
c - 34	7.47	553258	548960	1
c - 36	7.78	546376	548960	0

* One compound allowed %D <= 50%

Samples

17G1310-01
17G1310-02
17G1439-01
17H0092-01
17H0092-02

D:\HPCHEM\1\DATA\A080617.SEC\A0806061.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/6/17
Data File Name	A0806061.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	517970	566638	-9
c - 10	1.63	523932	566638	-8
c - 12	2.35	540830	566638	-5
c - 14	3.02	555805	566638	-2
c - 16	3.62	572903	566638	1
c - 18	4.23	569699	566638	1
o-Terphenyl	4.52	638062	566638	
c - 20	4.84	581877	566638	3
c - 22	5.35	595392	566638	5
c - 24	5.78	559920	566638	-1
c - 26	6.17	594228	566638	5
c - 28	6.53	589070	566638	4
c - 30	6.86	588717	566638	4
c - 32	7.17	573707	566638	1
c - 34	7.47	571397	566638	1
c - 36	7.78	564127	566638	0

* One compound allowed %D <= 50%

Samples

17G1255-07@100X
17G1255-11@100X
17G1256-07@20X
17G1256-08@100X
17G1256-14@5X
17G1256-18@5X
17G1258-01@5X
17G1258-02@5X
17G1258-05@20X

D:\HPCHEM\1\DATA\A080717.SEC\A0807007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/7/17
Data File Name	A0807007.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	567269	616507	-8
c - 10	1.63	582026	616507	-6
c - 12	2.35	602280	616507	-2
c - 14	3.01	616087	616507	0
c - 16	3.62	632696	616507	3
c - 18	4.23	627640	616507	2
o-Terphenyl	4.52	702616	616507	
c - 20	4.84	638720	616507	4
c - 22	5.34	651603	616507	6
c - 24	5.78	609664	616507	-1
c - 26	6.17	643711	616507	4
c - 28	6.53	633637	616507	3
c - 30	6.86	630017	616507	2
c - 32	7.17	609518	616507	-1
c - 34	7.46	605031	616507	-2
c - 36	7.78	597714	616507	-3

* One compound allowed %D <= 50%

Samples

17G1300-01
17G1169-05@5X
17G1073-02@5X
17G1253-09@20X
17G1255-15@20X
17G1255-19@5X

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17G1255

Laboratory Sample ID(s):

17G1255-01 thru 17G1255-20

Sample Date(s):

07/27/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 7470A, SW-846 7471B, SW-846 8082A, SW-846 8260C, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☐ Yes ☑ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/18/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 16, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17G1256

Enclosed are results of analyses for samples received by the laboratory on July 27, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 8/16/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G1256

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC7-SO-9-2	17G1256-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-9-3A	17G1256-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-9-3B	17G1256-03	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8260C	
				SW-846 8270D	
WS-AOC7-SO-10-1	17G1256-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-10-2	17G1256-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-10-3A	17G1256-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-10-3B	17G1256-07	Soil		CTDEP ETPH	
				SM 2540G	
WS-AOC7-SO-20-1	17G1256-08	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-20-2	17G1256-09	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-20-3	17G1256-10	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-12-1	17G1256-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-12-2	17G1256-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-12-3A	17G1256-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-12-3B	17G1256-14	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
WS-AOC7-SO-11-1	17G1256-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-11-2	17G1256-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-11-3A	17G1256-17	Soil		SM 2540G	
				SW-846 8082A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 8/16/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G1256

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC7-SO-11-3B	17G1256-18	Soil		CTDEP ETPH	
				SM 2540G	
WS-AOC7-SO-15-1	17G1256-19	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-15-2A	17G1256-20	Soil		SM 2540G	
				SW-846 8082A	

con-test® ANALYTICAL LABORATORY

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CTDEP ETPH

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

o-Terphenyl

17G1256-03[WS-AOC7-SO-9-3B], 17G1256-07[WS-AOC7-SO-10-3B], 17G1256-10[WS-AOC7-SO-20-3]

SW-846 8260C

Qualifications:

L-03

Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Methyl tert-Butyl Ether (MTBE)

17G1256-03[WS-AOC7-SO-9-3B], B182955-BLK1, B182955-BS1

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

17G1256-03[WS-AOC7-SO-9-3B]

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

1,2-Dibromo-3-chloropropane (DB

17G1256-03[WS-AOC7-SO-9-3B], B182955-BLK1, B182955-BS1

Methyl tert-Butyl Ether (MTBE)

17G1256-03[WS-AOC7-SO-9-3B], B182955-BLK1, B182955-BS1

SW-846 8270D

Qualifications:

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

E

Reported result is estimated. Value reported over verified calibration range.

Analyte & Samples(s) Qualified:

Acenaphthene
17G1256-03[WS-AOC7-SO-9-3B], 17G1256-03RE1[WS-AOC7-SO-9-3B]

Anthracene
17G1256-03[WS-AOC7-SO-9-3B], 17G1256-03RE1[WS-AOC7-SO-9-3B]

Benzo(a)anthracene
17G1256-03[WS-AOC7-SO-9-3B]

Benzo(a)pyrene
17G1256-03[WS-AOC7-SO-9-3B]

Benzo(b)fluoranthene
17G1256-03[WS-AOC7-SO-9-3B]

Benzo(g,h,i)perylene
17G1256-03[WS-AOC7-SO-9-3B]

Benzo(k)fluoranthene
17G1256-03[WS-AOC7-SO-9-3B]

Chrysene
17G1256-03[WS-AOC7-SO-9-3B], 17G1256-03RE1[WS-AOC7-SO-9-3B]

Fluoranthene
17G1256-03[WS-AOC7-SO-9-3B], 17G1256-03RE1[WS-AOC7-SO-9-3B]

Fluorene
17G1256-03[WS-AOC7-SO-9-3B], 17G1256-03RE1[WS-AOC7-SO-9-3B]

Indeno(1,2,3-cd)pyrene
17G1256-03[WS-AOC7-SO-9-3B]

Naphthalene
17G1256-03[WS-AOC7-SO-9-3B]

Phenanthrene
17G1256-03[WS-AOC7-SO-9-3B], 17G1256-03RE1[WS-AOC7-SO-9-3B]

Pyrene
17G1256-03[WS-AOC7-SO-9-3B], 17G1256-03RE1[WS-AOC7-SO-9-3B]

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

2-Fluorobiphenyl
17G1256-03RE2[WS-AOC7-SO-9-3B]

Nitrobenzene-d5
17G1256-03RE2[WS-AOC7-SO-9-3B]

p-Terphenyl-d14
17G1256-03RE2[WS-AOC7-SO-9-3B]

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-9-2 Sampled: 7/27/2017 13:12

Sample ID: 17G1256-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 2:37	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 2:37	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 2:37	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 2:37	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 2:37	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 2:37	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 2:37	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 2:37	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 2:37	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.3	30-150		8/16/17 2:37
Decachlorobiphenyl [2]	81.2	30-150		8/16/17 2:37
Tetrachloro-m-xylene [1]	85.4	30-150		8/16/17 2:37
Tetrachloro-m-xylene [2]	87.3	30-150		8/16/17 2:37

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-9-2 Sampled: 7/27/2017 13:12

Sample ID: 17G1256-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.8		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-9-3A Sampled: 7/27/2017 13:14

Sample ID: 17G1256-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 2:55	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 2:55	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 2:55	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 2:55	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 2:55	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 2:55	TG
Aroclor-1260 [2]	0.56	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 2:55	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 2:55	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 2:55	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.7	30-150		8/16/17 2:55
Decachlorobiphenyl [2]	79.7	30-150		8/16/17 2:55
Tetrachloro-m-xylene [1]	81.1	30-150		8/16/17 2:55
Tetrachloro-m-xylene [2]	83.5	30-150		8/16/17 2:55

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-9-3A Sampled: 7/27/2017 13:14

Sample ID: 17G1256-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.0		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-9-3B Sampled: 7/27/2017 13:16

Sample ID: 17G1256-03

Sample Matrix: Soil

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	5.7	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
Acrylonitrile	ND	0.57	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
Benzene	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
Bromobenzene	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
Bromodichloromethane	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
Bromoform	ND	0.23	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
Bromomethane	ND	0.57	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
2-Butanone (MEK)	ND	2.3	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
n-Butylbenzene	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
sec-Butylbenzene	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
tert-Butylbenzene	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
Carbon Disulfide	ND	0.34	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
Carbon Tetrachloride	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
Chlorobenzene	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
Chlorodibromomethane	ND	0.23	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
Chloroethane	ND	0.57	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
Chloroform	ND	0.23	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
Chloromethane	ND	0.57	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
2-Chlorotoluene	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
4-Chlorotoluene	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.57	mg/Kg dry	2	V-05	SW-846 8260C	7/31/17	8/4/17 23:32	EEH
1,2-Dibromoethane (EDB)	ND	0.057	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
Dibromomethane	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
1,2-Dichlorobenzene	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
1,3-Dichlorobenzene	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
1,4-Dichlorobenzene	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
trans-1,4-Dichloro-2-butene	ND	0.23	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.23	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
1,1-Dichloroethane	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
1,2-Dichloroethane	ND	0.23	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
1,1-Dichloroethylene	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
cis-1,2-Dichloroethylene	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
trans-1,2-Dichloroethylene	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
1,2-Dichloropropane	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
1,3-Dichloropropane	ND	0.057	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
2,2-Dichloropropane	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
1,1-Dichloropropene	ND	0.23	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
cis-1,3-Dichloropropene	ND	0.057	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
trans-1,3-Dichloropropene	ND	0.057	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
Ethylbenzene	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
Hexachlorobutadiene	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
2-Hexanone (MBK)	ND	1.1	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
Isopropylbenzene (Cumene)	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-9-3B Sampled: 7/27/2017 13:16

Sample ID: 17G1256-03

Sample Matrix: Soil

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.11	mg/Kg dry	2	L-03, V-05	SW-846 8260C	7/31/17	8/4/17 23:32	EEH
Methylene Chloride	ND	0.57	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
4-Methyl-2-pentanone (MIBK)	ND	1.1	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
Naphthalene	5.6	0.23	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
n-Propylbenzene	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
Styrene	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
1,1,1,2-Tetrachloroethane	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
1,1,2,2-Tetrachloroethane	ND	0.057	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
Tetrachloroethylene	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
Tetrahydrofuran	ND	1.1	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
Toluene	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
1,2,3-Trichlorobenzene	ND	0.57	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
1,2,4-Trichlorobenzene	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
1,1,1-Trichloroethane	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
1,1,2-Trichloroethane	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
Trichloroethylene	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
Trichlorofluoromethane (Freon 11)	ND	0.23	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
1,2,3-Trichloropropane	ND	0.23	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
1,2,4-Trimethylbenzene	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
1,3,5-Trimethylbenzene	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
Vinyl Chloride	ND	0.23	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
m+p Xylene	ND	0.23	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH
o-Xylene	ND	0.11	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:32	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	87.5	70-130		8/4/17 23:32
Toluene-d8	96.0	70-130		8/4/17 23:32
4-Bromofluorobenzene	97.0	70-130		8/4/17 23:32

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-9-3B Sampled: 7/27/2017 13:16

Sample ID: 17G1256-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	200	0.48	mg/Kg dry	1	E	SW-846 8270D	8/3/17	8/4/17 22:19	BGL
Acenaphthene	690	9.6	mg/Kg dry	20	E	SW-846 8270D	8/3/17	8/5/17 20:56	BGL
Acenaphthene	490	96	mg/Kg dry	200		SW-846 8270D	8/3/17	8/5/17 21:18	BGL
Acenaphthylene	5.0	0.48	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 22:19	BGL
Acenaphthylene	ND	9.6	mg/Kg dry	20		SW-846 8270D	8/3/17	8/5/17 20:56	BGL
Acenaphthylene	150	96	mg/Kg dry	200		SW-846 8270D	8/3/17	8/5/17 21:18	BGL
Anthracene	89	0.48	mg/Kg dry	1	E	SW-846 8270D	8/3/17	8/4/17 22:19	BGL
Anthracene	500	9.6	mg/Kg dry	20	E	SW-846 8270D	8/3/17	8/5/17 20:56	BGL
Anthracene	370	96	mg/Kg dry	200		SW-846 8270D	8/3/17	8/5/17 21:18	BGL
Benzo(a)anthracene	140	0.48	mg/Kg dry	1	E	SW-846 8270D	8/3/17	8/4/17 22:19	BGL
Benzo(a)anthracene	220	9.6	mg/Kg dry	20		SW-846 8270D	8/3/17	8/5/17 20:56	BGL
Benzo(a)anthracene	210	96	mg/Kg dry	200		SW-846 8270D	8/3/17	8/5/17 21:18	BGL
Benzo(a)pyrene	150	0.48	mg/Kg dry	1	E	SW-846 8270D	8/3/17	8/4/17 22:19	BGL
Benzo(a)pyrene	72	9.6	mg/Kg dry	20		SW-846 8270D	8/3/17	8/5/17 20:56	BGL
Benzo(a)pyrene	ND	96	mg/Kg dry	200		SW-846 8270D	8/3/17	8/5/17 21:18	BGL
Benzo(b)fluoranthene	240	0.48	mg/Kg dry	1	E	SW-846 8270D	8/3/17	8/4/17 22:19	BGL
Benzo(b)fluoranthene	100	9.6	mg/Kg dry	20		SW-846 8270D	8/3/17	8/5/17 20:56	BGL
Benzo(b)fluoranthene	ND	96	mg/Kg dry	200		SW-846 8270D	8/3/17	8/5/17 21:18	BGL
Benzo(g,h,i)perylene	35	0.48	mg/Kg dry	1	E	SW-846 8270D	8/3/17	8/4/17 22:19	BGL
Benzo(g,h,i)perylene	23	9.6	mg/Kg dry	20		SW-846 8270D	8/3/17	8/5/17 20:56	BGL
Benzo(g,h,i)perylene	ND	96	mg/Kg dry	200		SW-846 8270D	8/3/17	8/5/17 21:18	BGL
Benzo(k)fluoranthene	59	0.48	mg/Kg dry	1	E	SW-846 8270D	8/3/17	8/4/17 22:19	BGL
Benzo(k)fluoranthene	41	9.6	mg/Kg dry	20		SW-846 8270D	8/3/17	8/5/17 20:56	BGL
Benzo(k)fluoranthene	ND	96	mg/Kg dry	200		SW-846 8270D	8/3/17	8/5/17 21:18	BGL
Chrysene	120	0.48	mg/Kg dry	1	E	SW-846 8270D	8/3/17	8/4/17 22:19	BGL
Chrysene	230	9.6	mg/Kg dry	20	E	SW-846 8270D	8/3/17	8/5/17 20:56	BGL
Chrysene	210	96	mg/Kg dry	200		SW-846 8270D	8/3/17	8/5/17 21:18	BGL
Dibenz(a,h)anthracene	11	0.48	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 22:19	BGL
Dibenz(a,h)anthracene	ND	9.6	mg/Kg dry	20		SW-846 8270D	8/3/17	8/5/17 20:56	BGL
Dibenz(a,h)anthracene	ND	96	mg/Kg dry	200		SW-846 8270D	8/3/17	8/5/17 21:18	BGL
Fluoranthene	340	0.48	mg/Kg dry	1	E	SW-846 8270D	8/3/17	8/4/17 22:19	BGL
Fluoranthene	1200	9.6	mg/Kg dry	20	E	SW-846 8270D	8/3/17	8/5/17 20:56	BGL
Fluoranthene	1100	96	mg/Kg dry	200		SW-846 8270D	8/3/17	8/5/17 21:18	BGL
Fluorene	140	0.48	mg/Kg dry	1	E	SW-846 8270D	8/3/17	8/4/17 22:19	BGL
Fluorene	400	9.6	mg/Kg dry	20	E	SW-846 8270D	8/3/17	8/5/17 20:56	BGL
Fluorene	310	96	mg/Kg dry	200		SW-846 8270D	8/3/17	8/5/17 21:18	BGL
Indeno(1,2,3-cd)pyrene	37	0.48	mg/Kg dry	1	E	SW-846 8270D	8/3/17	8/4/17 22:19	BGL
Indeno(1,2,3-cd)pyrene	23	9.6	mg/Kg dry	20		SW-846 8270D	8/3/17	8/5/17 20:56	BGL
Indeno(1,2,3-cd)pyrene	ND	96	mg/Kg dry	200		SW-846 8270D	8/3/17	8/5/17 21:18	BGL
2-Methylnaphthalene	10	0.48	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 22:19	BGL
2-Methylnaphthalene	11	9.6	mg/Kg dry	20		SW-846 8270D	8/3/17	8/5/17 20:56	BGL
2-Methylnaphthalene	ND	96	mg/Kg dry	200		SW-846 8270D	8/3/17	8/5/17 21:18	BGL
Naphthalene	78	0.48	mg/Kg dry	1	E	SW-846 8270D	8/3/17	8/4/17 22:19	BGL
Naphthalene	150	9.6	mg/Kg dry	20		SW-846 8270D	8/3/17	8/5/17 20:56	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-9-3B Sampled: 7/27/2017 13:16

Sample ID: 17G1256-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Naphthalene	130	96	mg/Kg dry	200		SW-846 8270D	8/3/17	8/5/17 21:18	BGL
Phenanthrene	360	0.48	mg/Kg dry	1	E	SW-846 8270D	8/3/17	8/4/17 22:19	BGL
Phenanthrene	1300	9.6	mg/Kg dry	20	E	SW-846 8270D	8/3/17	8/5/17 20:56	BGL
Phenanthrene	1800	96	mg/Kg dry	200		SW-846 8270D	8/3/17	8/5/17 21:18	BGL
Pyrene	170	0.48	mg/Kg dry	1	E	SW-846 8270D	8/3/17	8/4/17 22:19	BGL
Pyrene	1500	9.6	mg/Kg dry	20	E	SW-846 8270D	8/3/17	8/5/17 20:56	BGL
Pyrene	990	96	mg/Kg dry	200		SW-846 8270D	8/3/17	8/5/17 21:18	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	49.2	30-130		8/4/17 22:19
Nitrobenzene-d5	48.8	30-130		8/5/17 20:56
Nitrobenzene-d5	*	30-130	S-01	8/5/17 21:18
2-Fluorobiphenyl	32.9	30-130		8/4/17 22:19
2-Fluorobiphenyl	51.2	30-130		8/5/17 20:56
2-Fluorobiphenyl	*	30-130	S-01	8/5/17 21:18
p-Terphenyl-d14	52.0	30-130		8/4/17 22:19
p-Terphenyl-d14	79.2	30-130		8/5/17 20:56
p-Terphenyl-d14	*	30-130	S-01	8/5/17 21:18

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-9-3B Sampled: 7/27/2017 13:16

Sample ID: 17G1256-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	7300	1400	mg/Kg dry	50		CTDEP ETPH	8/3/17	8/7/17 20:46	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	8/7/17 20:46

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-9-3B Sampled: 7/27/2017 13:16

Sample ID: 17G1256-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	70.6		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-10-1 Sampled: 7/27/2017 13:30

Sample ID: 17G1256-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 3:13	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 3:13	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 3:13	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 3:13	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 3:13	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 3:13	TG
Aroclor-1260 [2]	0.16	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 3:13	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 3:13	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 3:13	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	67.6	30-150		8/16/17 3:13
Decachlorobiphenyl [2]	76.7	30-150		8/16/17 3:13
Tetrachloro-m-xylene [1]	86.2	30-150		8/16/17 3:13
Tetrachloro-m-xylene [2]	90.7	30-150		8/16/17 3:13

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-10-1 Sampled: 7/27/2017 13:30

Sample ID: 17G1256-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.8		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-10-2 Sampled: 7/27/2017 13:32

Sample ID: 17G1256-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 3:31	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 3:31	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 3:31	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 3:31	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 3:31	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 3:31	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 3:31	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 3:31	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 3:31	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	67.8	30-150		8/16/17 3:31
Decachlorobiphenyl [2]	75.5	30-150		8/16/17 3:31
Tetrachloro-m-xylene [1]	88.1	30-150		8/16/17 3:31
Tetrachloro-m-xylene [2]	91.7	30-150		8/16/17 3:31

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-10-2 Sampled: 7/27/2017 13:32

Sample ID: 17G1256-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.9		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-10-3A Sampled: 7/27/2017 13:34

Sample ID: 17G1256-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 3:49	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 3:49	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 3:49	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 3:49	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 3:49	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 3:49	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 3:49	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 3:49	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 3:49	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	40.4	30-150		8/16/17 3:49
Decachlorobiphenyl [2]	50.6	30-150		8/16/17 3:49
Tetrachloro-m-xylene [1]	50.4	30-150		8/16/17 3:49
Tetrachloro-m-xylene [2]	56.2	30-150		8/16/17 3:49

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-10-3A Sampled: 7/27/2017 13:34

Sample ID: 17G1256-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.0		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-10-3B Sampled: 7/27/2017 13:36

Sample ID: 17G1256-07

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	580	240	mg/Kg dry	20		CTDEP ETPH	8/3/17	8/6/17 22:38	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	8/6/17 22:38

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-10-3B Sampled: 7/27/2017 13:36

Sample ID: 17G1256-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.7		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-20-1 Sampled: 7/27/2017 13:47

Sample ID: 17G1256-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 4:06	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 4:06	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 4:06	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 4:06	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 4:06	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 4:06	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 4:06	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 4:06	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 4:06	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	47.7	30-150		8/16/17 4:06
Decachlorobiphenyl [2]	57.2	30-150		8/16/17 4:06
Tetrachloro-m-xylene [1]	56.2	30-150		8/16/17 4:06
Tetrachloro-m-xylene [2]	63.5	30-150		8/16/17 4:06

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-20-1 Sampled: 7/27/2017 13:47

Sample ID: 17G1256-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	6300	1100	mg/Kg dry	100		CTDEP ETPH	8/3/17	8/6/17 22:55	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	76.7	50-150		8/6/17 22:55

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-20-1 Sampled: 7/27/2017 13:47

Sample ID: 17G1256-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.3		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-20-2 Sampled: 7/27/2017 13:48

Sample ID: 17G1256-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 4:25	TG
Aroclor-1221 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 4:25	TG
Aroclor-1232 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 4:25	TG
Aroclor-1242 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 4:25	TG
Aroclor-1248 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 4:25	TG
Aroclor-1254 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 4:25	TG
Aroclor-1260 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 4:25	TG
Aroclor-1262 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 4:25	TG
Aroclor-1268 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 4:25	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.9	30-150		8/16/17 4:25
Decachlorobiphenyl [2]	87.4	30-150		8/16/17 4:25
Tetrachloro-m-xylene [1]	85.1	30-150		8/16/17 4:25
Tetrachloro-m-xylene [2]	94.8	30-150		8/16/17 4:25

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-20-2 Sampled: 7/27/2017 13:48

Sample ID: 17G1256-09

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	450	130	mg/Kg dry	5		CTDEP ETPH	8/7/17	8/8/17 10:34	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	87.8	50-150		8/8/17 10:34

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-20-2 Sampled: 7/27/2017 13:48

Sample ID: 17G1256-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	39.4		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-20-3 Sampled: 7/27/2017 13:49

Sample ID: 17G1256-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 5:32	TG
Aroclor-1221 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 5:32	TG
Aroclor-1232 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 5:32	TG
Aroclor-1242 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 5:32	TG
Aroclor-1248 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 5:32	TG
Aroclor-1254 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 5:32	TG
Aroclor-1260 [2]	0.34	0.25	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 5:32	TG
Aroclor-1262 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 5:32	TG
Aroclor-1268 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 5:32	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	65.9	30-150		8/16/17 5:32
Decachlorobiphenyl [2]	80.7	30-150		8/16/17 5:32
Tetrachloro-m-xylene [1]	70.3	30-150		8/16/17 5:32
Tetrachloro-m-xylene [2]	78.4	30-150		8/16/17 5:32

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-20-3 Sampled: 7/27/2017 13:49

Sample ID: 17G1256-10

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	9000	2500	mg/Kg dry	100		CTDEP ETPH	8/3/17	8/7/17 21:04	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	8/7/17 21:04

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-20-3 Sampled: 7/27/2017 13:49

Sample ID: 17G1256-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	40.7		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-12-1 Sampled: 7/27/2017 13:50

Sample ID: 17G1256-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 5:50	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 5:50	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 5:50	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 5:50	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 5:50	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 5:50	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 5:50	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 5:50	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 5:50	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.7	30-150		8/16/17 5:50
Decachlorobiphenyl [2]	99.2	30-150		8/16/17 5:50
Tetrachloro-m-xylene [1]	95.4	30-150		8/16/17 5:50
Tetrachloro-m-xylene [2]	101	30-150		8/16/17 5:50

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-12-1 Sampled: 7/27/2017 13:50

Sample ID: 17G1256-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.2		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-12-2 Sampled: 7/27/2017 13:52

Sample ID: 17G1256-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 6:07	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 6:07	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 6:07	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 6:07	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 6:07	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 6:07	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 6:07	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 6:07	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 6:07	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	65.7	30-150		8/16/17 6:07
Decachlorobiphenyl [2]	77.9	30-150		8/16/17 6:07
Tetrachloro-m-xylene [1]	82.0	30-150		8/16/17 6:07
Tetrachloro-m-xylene [2]	87.4	30-150		8/16/17 6:07

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-12-2 Sampled: 7/27/2017 13:52

Sample ID: 17G1256-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.5		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-12-3A Sampled: 7/27/2017 13:54

Sample ID: 17G1256-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 6:25	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 6:25	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 6:25	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 6:25	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 6:25	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 6:25	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 6:25	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 6:25	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 6:25	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.8	30-150		8/16/17 6:25
Decachlorobiphenyl [2]	84.6	30-150		8/16/17 6:25
Tetrachloro-m-xylene [1]	83.3	30-150		8/16/17 6:25
Tetrachloro-m-xylene [2]	85.6	30-150		8/16/17 6:25

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-12-3A Sampled: 7/27/2017 13:54

Sample ID: 17G1256-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.9		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-12-3B Sampled: 7/27/2017 13:56

Sample ID: 17G1256-14

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	130	60	mg/Kg dry	5		CTDEP ETPH	8/3/17	8/6/17 23:13	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	75.7	50-150		8/6/17 23:13

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-12-3B Sampled: 7/27/2017 13:56

Sample ID: 17G1256-14

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.8	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:58	QNW
Arsenic	3.0	2.8	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:58	QNW
Barium	27	2.8	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:58	QNW
Beryllium	ND	0.28	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:58	QNW
Cadmium	ND	0.28	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:58	QNW
Chromium	11	0.56	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:58	QNW
Copper	21	0.56	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:58	QNW
Lead	27	0.84	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:58	QNW
Mercury	0.15	0.029	mg/Kg dry	1		SW-846 7471B	8/3/17	8/5/17 13:18	TJK
Nickel	7.6	0.56	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:58	QNW
Selenium	ND	5.6	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:58	QNW
Silver	ND	0.56	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:58	QNW
Thallium	ND	2.8	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:58	QNW
Vanadium	79	1.1	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:58	QNW
Zinc	26	1.1	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:58	QNW

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-12-3B Sampled: 7/27/2017 13:56

Sample ID: 17G1256-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.9		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-11-1 Sampled: 7/27/2017 13:40

Sample ID: 17G1256-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 6:42	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 6:42	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 6:42	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 6:42	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 6:42	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 6:42	TG
Aroclor-1260 [2]	0.32	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 6:42	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 6:42	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 6:42	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	62.4	30-150		8/16/17 6:42
Decachlorobiphenyl [2]	70.2	30-150		8/16/17 6:42
Tetrachloro-m-xylene [1]	80.8	30-150		8/16/17 6:42
Tetrachloro-m-xylene [2]	85.4	30-150		8/16/17 6:42

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-11-1 Sampled: 7/27/2017 13:40

Sample ID: 17G1256-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.7		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-11-2 Sampled: 7/27/2017 13:42

Sample ID: 17G1256-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 7:01	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 7:01	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 7:01	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 7:01	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 7:01	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 7:01	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 7:01	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 7:01	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 7:01	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	62.6	30-150		8/16/17 7:01
Decachlorobiphenyl [2]	77.7	30-150		8/16/17 7:01
Tetrachloro-m-xylene [1]	72.3	30-150		8/16/17 7:01
Tetrachloro-m-xylene [2]	82.6	30-150		8/16/17 7:01

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-11-2 Sampled: 7/27/2017 13:42

Sample ID: 17G1256-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.7		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-11-3A Sampled: 7/27/2017 13:44

Sample ID: 17G1256-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 7:18	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 7:18	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 7:18	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 7:18	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 7:18	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 7:18	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 7:18	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 7:18	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 7:18	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.9	30-150		8/16/17 7:18
Decachlorobiphenyl [2]	86.6	30-150		8/16/17 7:18
Tetrachloro-m-xylene [1]	88.1	30-150		8/16/17 7:18
Tetrachloro-m-xylene [2]	90.6	30-150		8/16/17 7:18

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-11-3A Sampled: 7/27/2017 13:44

Sample ID: 17G1256-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.8		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-11-3B Sampled: 7/27/2017 13:46

Sample ID: 17G1256-18

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	67	59	mg/Kg dry	5		CTDEP ETPH	8/3/17	8/6/17 23:30	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	67.8	50-150		8/6/17 23:30

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-11-3B Sampled: 7/27/2017 13:46

Sample ID: 17G1256-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.1		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-15-1 Sampled: 7/27/2017 14:00

Sample ID: 17G1256-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 7:36	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 7:36	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 7:36	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 7:36	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 7:36	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 7:36	TG
Aroclor-1260 [2]	1.1	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 7:36	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 7:36	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 7:36	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.5	30-150		8/16/17 7:36
Decachlorobiphenyl [2]	84.1	30-150		8/16/17 7:36
Tetrachloro-m-xylene [1]	85.1	30-150		8/16/17 7:36
Tetrachloro-m-xylene [2]	88.7	30-150		8/16/17 7:36

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-15-1 Sampled: 7/27/2017 14:00

Sample ID: 17G1256-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.1		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-15-2A Sampled: 7/27/2017 14:02

Sample ID: 17G1256-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 7:54	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 7:54	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 7:54	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 7:54	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 7:54	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 7:54	TG
Aroclor-1260 [1]	0.39	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 7:54	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 7:54	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 7:54	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	67.5	30-150		8/16/17 7:54
Decachlorobiphenyl [2]	78.9	30-150		8/16/17 7:54
Tetrachloro-m-xylene [1]	82.5	30-150		8/16/17 7:54
Tetrachloro-m-xylene [2]	83.1	30-150		8/16/17 7:54

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1256

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-15-2A Sampled: 7/27/2017 14:02

Sample ID: 17G1256-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.4		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1256-03 [WS-AOC7-SO-9-3B]	B183276	15.0	1.00	08/03/17
17G1256-07 [WS-AOC7-SO-10-3B]	B183276	30.0	1.00	08/03/17
17G1256-08 [WS-AOC7-SO-20-1]	B183276	30.0	1.00	08/03/17
17G1256-10 [WS-AOC7-SO-20-3]	B183276	30.0	1.00	08/03/17
17G1256-14 [WS-AOC7-SO-12-3B]	B183276	30.0	1.00	08/03/17
17G1256-18 [WS-AOC7-SO-11-3B]	B183276	30.0	1.00	08/03/17

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1256-09RE1 [WS-AOC7-SO-20-2]	B183484	30.0	1.00	08/07/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G1256-01 [WS-AOC7-SO-9-2]	B183217	08/03/17
17G1256-02 [WS-AOC7-SO-9-3A]	B183217	08/03/17
17G1256-03 [WS-AOC7-SO-9-3B]	B183217	08/03/17
17G1256-04 [WS-AOC7-SO-10-1]	B183217	08/03/17
17G1256-05 [WS-AOC7-SO-10-2]	B183217	08/03/17
17G1256-06 [WS-AOC7-SO-10-3A]	B183217	08/03/17
17G1256-07 [WS-AOC7-SO-10-3B]	B183217	08/03/17
17G1256-08 [WS-AOC7-SO-20-1]	B183217	08/03/17
17G1256-09 [WS-AOC7-SO-20-2]	B183217	08/03/17
17G1256-10 [WS-AOC7-SO-20-3]	B183217	08/03/17
17G1256-11 [WS-AOC7-SO-12-1]	B183217	08/03/17
17G1256-12 [WS-AOC7-SO-12-2]	B183217	08/03/17
17G1256-13 [WS-AOC7-SO-12-3A]	B183217	08/03/17
17G1256-14 [WS-AOC7-SO-12-3B]	B183217	08/03/17
17G1256-15 [WS-AOC7-SO-11-1]	B183217	08/03/17
17G1256-16 [WS-AOC7-SO-11-2]	B183217	08/03/17
17G1256-17 [WS-AOC7-SO-11-3A]	B183217	08/03/17
17G1256-18 [WS-AOC7-SO-11-3B]	B183217	08/03/17
17G1256-19 [WS-AOC7-SO-15-1]	B183217	08/03/17
17G1256-20 [WS-AOC7-SO-15-2A]	B183217	08/03/17

Prep Method: SW-846 3050B-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1256-14 [WS-AOC7-SO-12-3B]	B183203	1.07	50.0	08/03/17

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1256-14 [WS-AOC7-SO-12-3B]	B183214	0.610	50.0	08/03/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1256-01 [WS-AOC7-SO-9-2]	B183286	10.0	10.0	08/03/17
17G1256-02 [WS-AOC7-SO-9-3A]	B183286	10.0	10.0	08/03/17
17G1256-04 [WS-AOC7-SO-10-1]	B183286	10.0	10.0	08/03/17
17G1256-05 [WS-AOC7-SO-10-2]	B183286	10.0	10.0	08/03/17
17G1256-06 [WS-AOC7-SO-10-3A]	B183286	10.0	10.0	08/03/17
17G1256-08 [WS-AOC7-SO-20-1]	B183286	10.0	10.0	08/03/17
17G1256-09 [WS-AOC7-SO-20-2]	B183286	10.0	10.0	08/03/17
17G1256-10 [WS-AOC7-SO-20-3]	B183286	10.0	10.0	08/03/17
17G1256-11 [WS-AOC7-SO-12-1]	B183286	10.0	10.0	08/03/17
17G1256-12 [WS-AOC7-SO-12-2]	B183286	10.0	10.0	08/03/17
17G1256-13 [WS-AOC7-SO-12-3A]	B183286	10.0	10.0	08/03/17
17G1256-15 [WS-AOC7-SO-11-1]	B183286	10.0	10.0	08/03/17
17G1256-16 [WS-AOC7-SO-11-2]	B183286	10.0	10.0	08/03/17
17G1256-17 [WS-AOC7-SO-11-3A]	B183286	10.0	10.0	08/03/17
17G1256-19 [WS-AOC7-SO-15-1]	B183286	10.0	10.0	08/03/17
17G1256-20 [WS-AOC7-SO-15-2A]	B183286	10.0	10.0	08/03/17

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
17G1256-03 [WS-AOC7-SO-9-3B]	B182955	9.81	7.88	0.5	50	07/31/17

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1256-03 [WS-AOC7-SO-9-3B]	B183204	15.0	1.00	08/03/17
17G1256-03RE1 [WS-AOC7-SO-9-3B]	B183204	15.0	1.00	08/03/17
17G1256-03RE2 [WS-AOC7-SO-9-3B]	B183204	15.0	1.00	08/03/17

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182955 - SW-846 5035										
Blank (B182955-BLK1)				Prepared: 07/31/17 Analyzed: 08/04/17						
Acetone	ND	2.5	mg/Kg wet							
Acrylonitrile	ND	0.25	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Bromobenzene	ND	0.050	mg/Kg wet							
Bromodichloromethane	ND	0.050	mg/Kg wet							
Bromoform	ND	0.050	mg/Kg wet							
Bromomethane	ND	0.10	mg/Kg wet							
2-Butanone (MEK)	ND	1.0	mg/Kg wet							
n-Butylbenzene	ND	0.050	mg/Kg wet							
sec-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butylbenzene	ND	0.050	mg/Kg wet							
Carbon Disulfide	ND	0.15	mg/Kg wet							
Carbon Tetrachloride	ND	0.050	mg/Kg wet							
Chlorobenzene	ND	0.050	mg/Kg wet							
Chlorodibromomethane	ND	0.025	mg/Kg wet							
Chloroethane	ND	0.10	mg/Kg wet							
Chloroform	ND	0.10	mg/Kg wet							
Chloromethane	ND	0.10	mg/Kg wet							
2-Chlorotoluene	ND	0.050	mg/Kg wet							
4-Chlorotoluene	ND	0.050	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.25	mg/Kg wet							V-05
1,2-Dibromoethane (EDB)	ND	0.025	mg/Kg wet							
Dibromomethane	ND	0.050	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.050	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.10	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.10	mg/Kg wet							
1,1-Dichloroethane	ND	0.050	mg/Kg wet							
1,2-Dichloroethane	ND	0.050	mg/Kg wet							
1,1-Dichloroethylene	ND	0.050	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
1,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,3-Dichloropropane	ND	0.025	mg/Kg wet							
2,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,1-Dichloropropene	ND	0.10	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
Hexachlorobutadiene	ND	0.050	mg/Kg wet							
2-Hexanone (MBK)	ND	0.50	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							L-03, V-05
Methylene Chloride	ND	0.25	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.50	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
n-Propylbenzene	ND	0.050	mg/Kg wet							
Styrene	ND	0.050	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182955 - SW-846 5035										
Blank (B182955-BLK1)				Prepared: 07/31/17 Analyzed: 08/04/17						
Tetrachloroethylene	ND	0.050	mg/Kg wet							
Tetrahydrofuran	ND	0.50	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.050	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.050	mg/Kg wet							
Trichloroethylene	ND	0.050	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.10	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.050	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg wet							
Vinyl Chloride	ND	0.10	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0228*		mg/Kg wet	0.0250		91.0	70-130			
Surrogate: Toluene-d8	*0.0241*		mg/Kg wet	0.0250		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0238*		mg/Kg wet	0.0250		95.2	70-130			
LCS (B182955-BS1)				Prepared: 07/31/17 Analyzed: 08/04/17						
Acetone	0.0838	0.057	mg/Kg wet	0.113		74.0	70-130			
Acrylonitrile	0.00938	0.0057	mg/Kg wet	0.0113		82.8	70-130			
Benzene	0.0109	0.0011	mg/Kg wet	0.0113		96.2	70-130			
Bromobenzene	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130			
Bromodichloromethane	0.0114	0.0011	mg/Kg wet	0.0113		100	70-130			
Bromoform	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130			
Bromomethane	0.00953	0.0023	mg/Kg wet	0.0113		84.1	70-130			
2-Butanone (MEK)	0.0969	0.023	mg/Kg wet	0.113		85.5	70-130			
n-Butylbenzene	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130			
sec-Butylbenzene	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130			
tert-Butylbenzene	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130			
Carbon Disulfide	0.115	0.0034	mg/Kg wet	0.113		101	70-130			
Carbon Tetrachloride	0.0116	0.0011	mg/Kg wet	0.0113		103	70-130			
Chlorobenzene	0.0126	0.0011	mg/Kg wet	0.0113		111	70-130			
Chlorodibromomethane	0.0121	0.00057	mg/Kg wet	0.0113		107	70-130			
Chloroethane	0.0145	0.0023	mg/Kg wet	0.0113		128	70-130			
Chloroform	0.0111	0.0023	mg/Kg wet	0.0113		98.1	70-130			
Chloromethane	0.0143	0.0023	mg/Kg wet	0.0113		126	70-130			
2-Chlorotoluene	0.00986	0.0011	mg/Kg wet	0.0113		87.0	70-130			
4-Chlorotoluene	0.0114	0.0011	mg/Kg wet	0.0113		101	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.00876	0.0057	mg/Kg wet	0.0113		77.3	70-130			V-05
1,2-Dibromoethane (EDB)	0.0120	0.00057	mg/Kg wet	0.0113		106	70-130			
Dibromomethane	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130			
1,2-Dichlorobenzene	0.0125	0.0011	mg/Kg wet	0.0113		111	70-130			
1,3-Dichlorobenzene	0.0123	0.0011	mg/Kg wet	0.0113		108	70-130			
1,4-Dichlorobenzene	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130			
trans-1,4-Dichloro-2-butene	0.0111	0.0023	mg/Kg wet	0.0113		97.7	70-130			
Dichlorodifluoromethane (Freon 12)	0.0119	0.0023	mg/Kg wet	0.0113		105	70-130			
1,1-Dichloroethane	0.00918	0.0011	mg/Kg wet	0.0113		81.0	70-130			
1,2-Dichloroethane	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
1,1-Dichloroethylene	0.0102	0.0011	mg/Kg wet	0.0113		89.8	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B182955 - SW-846 5035											
LCS (B182955-BS1)				Prepared: 07/31/17 Analyzed: 08/04/17							
cis-1,2-Dichloroethylene	0.0106	0.0011	mg/Kg wet	0.0113		93.7		70-130			
trans-1,2-Dichloroethylene	0.0102	0.0011	mg/Kg wet	0.0113		89.9		70-130			
1,2-Dichloropropane	0.0111	0.0011	mg/Kg wet	0.0113		98.2		70-130			
1,3-Dichloropropane	0.0114	0.00057	mg/Kg wet	0.0113		101		70-130			
2,2-Dichloropropane	0.0113	0.0011	mg/Kg wet	0.0113		99.4		70-130			
1,1-Dichloropropene	0.0116	0.0023	mg/Kg wet	0.0113		102		70-130			
cis-1,3-Dichloropropene	0.0119	0.00057	mg/Kg wet	0.0113		105		70-130			
trans-1,3-Dichloropropene	0.0103	0.00057	mg/Kg wet	0.0113		90.8		70-130			
Ethylbenzene	0.0126	0.0011	mg/Kg wet	0.0113		111		70-130			
Hexachlorobutadiene	0.0129	0.0011	mg/Kg wet	0.0113		114		70-130			
2-Hexanone (MBK)	0.0934	0.011	mg/Kg wet	0.113		82.4		70-130			
Isopropylbenzene (Cumene)	0.0125	0.0011	mg/Kg wet	0.0113		111		70-130			
p-Isopropyltoluene (p-Cymene)	0.0121	0.0011	mg/Kg wet	0.0113		106		70-130			
Methyl tert-Butyl Ether (MTBE)	0.00683	0.0011	mg/Kg wet	0.0113		**60.3**	*	70-130			L-03, V-05
Methylene Chloride	0.00814	0.0057	mg/Kg wet	0.0113		71.8		70-130			
4-Methyl-2-pentanone (MIBK)	0.101	0.011	mg/Kg wet	0.113		89.2		70-130			
Naphthalene	0.0110	0.0023	mg/Kg wet	0.0113		96.8		70-130			
n-Propylbenzene	0.0130	0.0011	mg/Kg wet	0.0113		115		70-130			
Styrene	0.0119	0.0011	mg/Kg wet	0.0113		105		70-130			
1,1,1,2-Tetrachloroethane	0.0129	0.0011	mg/Kg wet	0.0113		114		70-130			
1,1,2,2-Tetrachloroethane	0.0121	0.00057	mg/Kg wet	0.0113		107		70-130			
Tetrachloroethylene	0.0133	0.0011	mg/Kg wet	0.0113		117		70-130			
Tetrahydrofuran	0.00890	0.011	mg/Kg wet	0.0113		78.5		70-130			
Toluene	0.0118	0.0011	mg/Kg wet	0.0113		104		70-130			
1,2,3-Trichlorobenzene	0.0117	0.0057	mg/Kg wet	0.0113		103		70-130			
1,2,4-Trichlorobenzene	0.0121	0.0011	mg/Kg wet	0.0113		107		70-130			
1,1,1-Trichloroethane	0.0111	0.0011	mg/Kg wet	0.0113		98.2		70-130			
1,1,2-Trichloroethane	0.0120	0.0011	mg/Kg wet	0.0113		106		70-130			
Trichloroethylene	0.0123	0.0011	mg/Kg wet	0.0113		109		70-130			
Trichlorofluoromethane (Freon 11)	0.0110	0.0023	mg/Kg wet	0.0113		97.2		70-130			
1,2,3-Trichloropropane	0.0120	0.0023	mg/Kg wet	0.0113		106		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0112	0.0011	mg/Kg wet	0.0113		99.0		70-130			
1,2,4-Trimethylbenzene	0.0119	0.0011	mg/Kg wet	0.0113		105		70-130			
1,3,5-Trimethylbenzene	0.0124	0.0011	mg/Kg wet	0.0113		110		70-130			
Vinyl Chloride	0.0107	0.0023	mg/Kg wet	0.0113		94.4		70-130			
m+p Xylene	0.0251	0.0023	mg/Kg wet	0.0227		111		70-130			
o-Xylene	0.0127	0.0011	mg/Kg wet	0.0113		112		70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0255*		mg/Kg wet	0.0283		90.1		70-130			
Surrogate: Toluene-d8	*0.0276*		mg/Kg wet	0.0283		97.5		70-130			
Surrogate: 4-Bromofluorobenzene	*0.0278*		mg/Kg wet	0.0283		98.1		70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183204 - SW-846 3546										
Blank (B183204-BLK1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.14*		mg/Kg wet	3.33		64.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.15*		mg/Kg wet	3.33		64.4	30-130			
Surrogate: p-Terphenyl-d14	*2.52*		mg/Kg wet	3.33		75.7	30-130			
LCS (B183204-BS1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140			
Acenaphthylene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140			
Anthracene	1.08	0.17	mg/Kg wet	1.67		64.8	40-140			
Benzo(a)anthracene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140			
Benzo(a)pyrene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Benzo(b)fluoranthene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140			
Benzo(g,h,i)perylene	0.934	0.17	mg/Kg wet	1.67		56.0	40-140			
Benzo(k)fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140			
Chrysene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140			
Dibenz(a,h)anthracene	0.917	0.17	mg/Kg wet	1.67		55.0	40-140			
Fluoranthene	1.03	0.17	mg/Kg wet	1.67		62.0	40-140			
Fluorene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140			
Indeno(1,2,3-cd)pyrene	0.941	0.17	mg/Kg wet	1.67		56.5	40-140			
2-Methylnaphthalene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140			
Naphthalene	1.11	0.17	mg/Kg wet	1.67		66.6	40-140			
Phenanthrene	1.09	0.17	mg/Kg wet	1.67		65.4	40-140			
Pyrene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Surrogate: Nitrobenzene-d5	*2.64*		mg/Kg wet	3.33		79.3	30-130			
Surrogate: 2-Fluorobiphenyl	*2.63*		mg/Kg wet	3.33		78.9	30-130			
Surrogate: p-Terphenyl-d14	*2.55*		mg/Kg wet	3.33		76.5	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183204 - SW-846 3546										
LCS Dup (B183204-BSD1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	1.00	0.17	mg/Kg wet	1.67		60.3	40-140	8.39	30	
Acenaphthylene	1.00	0.17	mg/Kg wet	1.67		60.1	40-140	10.1	30	
Anthracene	1.01	0.17	mg/Kg wet	1.67		60.9	40-140	6.27	30	
Benzo(a)anthracene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140	6.55	30	
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	4.07	30	
Benzo(b)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	5.53	30	
Benzo(g,h,i)perylene	0.891	0.17	mg/Kg wet	1.67		53.5	40-140	4.68	30	
Benzo(k)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	2.69	30	
Chrysene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140	5.47	30	
Dibenz(a,h)anthracene	0.882	0.17	mg/Kg wet	1.67		52.9	40-140	3.89	30	
Fluoranthene	0.965	0.17	mg/Kg wet	1.67		57.9	40-140	6.90	30	
Fluorene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	11.1	30	
Indeno(1,2,3-cd)pyrene	0.869	0.17	mg/Kg wet	1.67		52.1	40-140	7.96	30	
2-Methylnaphthalene	1.04	0.17	mg/Kg wet	1.67		62.7	40-140	13.3	30	
Naphthalene	0.964	0.17	mg/Kg wet	1.67		57.8	40-140	14.1	30	
Phenanthrene	1.01	0.17	mg/Kg wet	1.67		60.7	40-140	7.46	30	
Pyrene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140	6.35	30	
Surrogate: Nitrobenzene-d5	*2.27*		mg/Kg wet	3.33		68.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.38*		mg/Kg wet	3.33		71.4	30-130			
Surrogate: p-Terphenyl-d14	*2.40*		mg/Kg wet	3.33		72.1	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183286 - SW-846 3540C										
Blank (B183286-BLK1)				Prepared: 08/03/17 Analyzed: 08/16/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.157*		mg/Kg wet	0.200		78.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.181*		mg/Kg wet	0.200		90.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.167*		mg/Kg wet	0.200		83.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.183*		mg/Kg wet	0.200		91.6	30-150			
LCS (B183286-BS1)				Prepared: 08/03/17 Analyzed: 08/16/17						
Aroclor-1016	0.20	0.020	mg/Kg wet	0.200		98.8	40-140			
Aroclor-1016 [2C]	0.21	0.020	mg/Kg wet	0.200		104	40-140			
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		88.3	40-140			
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		91.5	40-140			
Surrogate: Decachlorobiphenyl	*0.172*		mg/Kg wet	0.200		85.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.199*		mg/Kg wet	0.200		99.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.180*		mg/Kg wet	0.200		90.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.197*		mg/Kg wet	0.200		98.6	30-150			
LCS Dup (B183286-BSD1)				Prepared: 08/03/17 Analyzed: 08/16/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		96.1	40-140	2.83	30	
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		99.5	40-140	3.98	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		86.5	40-140	2.16	30	
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		88.7	40-140	3.06	30	
Surrogate: Decachlorobiphenyl	*0.172*		mg/Kg wet	0.200		86.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.195*		mg/Kg wet	0.200		97.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.179*		mg/Kg wet	0.200		89.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.197*		mg/Kg wet	0.200		98.5	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183286 - SW-846 3540C										
Matrix Spike (B183286-MS1)		**Source: 17G1256-01**		Prepared: 08/03/17 Analyzed: 08/16/17						
Aroclor-1016	0.24	0.11	mg/Kg dry	0.220	ND	107	40-140			
Aroclor-1016 [2C]	0.24	0.11	mg/Kg dry	0.220	ND	108	40-140			
Aroclor-1260	0.27	0.11	mg/Kg dry	0.220	ND	120	40-140			
Aroclor-1260 [2C]	0.27	0.11	mg/Kg dry	0.220	ND	124	40-140			
Surrogate: Decachlorobiphenyl	*0.165*		mg/Kg dry	0.220		75.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.178*		mg/Kg dry	0.220		80.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.184*		mg/Kg dry	0.220		83.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.193*		mg/Kg dry	0.220		87.7	30-150			
Matrix Spike Dup (B183286-MSD1)		**Source: 17G1256-01**		Prepared: 08/03/17 Analyzed: 08/16/17						
Aroclor-1016	0.23	0.11	mg/Kg dry	0.220	ND	103	40-140	3.58	50	
Aroclor-1016 [2C]	0.24	0.11	mg/Kg dry	0.220	ND	108	40-140	0.188	50	
Aroclor-1260	0.25	0.11	mg/Kg dry	0.220	ND	112	40-140	7.40	50	
Aroclor-1260 [2C]	0.24	0.11	mg/Kg dry	0.220	ND	111	40-140	11.3	50	
Surrogate: Decachlorobiphenyl	*0.162*		mg/Kg dry	0.220		73.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.176*		mg/Kg dry	0.220		80.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.177*		mg/Kg dry	0.220		80.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.186*		mg/Kg dry	0.220		84.2	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183276 - SW-846 3546										
Blank (B183276-BLK1)				Prepared: 08/03/17 Analyzed: 08/04/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.29*		mg/Kg wet	3.33		98.8	50-150			
LCS (B183276-BS1)				Prepared: 08/03/17 Analyzed: 08/04/17						
CT ETPH	28.8	10	mg/Kg wet	33.3		86.3	60-120			
Surrogate: o-Terphenyl	*2.70*		mg/Kg wet	3.33		80.9	50-150			
LCS Dup (B183276-BSD1)				Prepared: 08/03/17 Analyzed: 08/04/17						
CT ETPH	30.5	10	mg/Kg wet	33.3		91.6	60-120	5.93	30	
Surrogate: o-Terphenyl	*2.84*		mg/Kg wet	3.33		85.3	50-150			
Batch B183484 - SW-846 3546										
Blank (B183484-BLK1)				Prepared & Analyzed: 08/07/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*2.57*		mg/Kg wet	3.33		77.0	50-150			
LCS (B183484-BS1)				Prepared & Analyzed: 08/07/17						
CT ETPH	24.2	10	mg/Kg wet	33.3		72.7	60-120			
Surrogate: o-Terphenyl	*2.75*		mg/Kg wet	3.33		82.5	50-150			
LCS Dup (B183484-BSD1)				Prepared & Analyzed: 08/07/17						
CT ETPH	23.9	10	mg/Kg wet	33.3		71.6	60-120	1.43	30	
Surrogate: o-Terphenyl	*2.64*		mg/Kg wet	3.33		79.3	50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183203 - SW-846 3050B										
Blank (B183203-BLK1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							
LCS (B183203-BS1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Antimony	72.0	5.0	mg/Kg wet	88.2		81.6	0-210.3			
Arsenic	55.2	5.0	mg/Kg wet	57.0		96.8	77.8-122.1			
Barium	108	5.0	mg/Kg wet	110		98.2	82-117.4			
Beryllium	68.1	0.50	mg/Kg wet	67.5		101	82.3-117.7			
Cadmium	77.4	0.50	mg/Kg wet	77.8		99.5	81.9-118.2			
Chromium	63.7	1.0	mg/Kg wet	65.0		97.9	78.7-120.6			
Copper	58.6	1.0	mg/Kg wet	56.4		104	80.4-119.6			
Lead	84.3	1.5	mg/Kg wet	85.6		98.5	82.4-117.8			
Nickel	59.7	1.0	mg/Kg wet	61.3		97.3	82.2-117.8			
Selenium	75.4	10	mg/Kg wet	78.9		95.6	77.1-122.3			
Silver	54.1	1.0	mg/Kg wet	54.2		99.7	74.3-125.4			
Thallium	192	5.0	mg/Kg wet	178		108	78.2-121.6			
Vanadium	54.6	2.0	mg/Kg wet	56.3		96.9	64.8-135.2			
Zinc	191	2.0	mg/Kg wet	198		96.5	79.7-120.8			
LCS Dup (B183203-BSD1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Antimony	69.8	5.1	mg/Kg wet	88.2		79.1	0-210.3	3.12	30	
Arsenic	56.0	5.1	mg/Kg wet	57.0		98.2	77.8-122.1	1.41	30	
Barium	106	5.1	mg/Kg wet	110		96.6	82-117.4	1.62	30	
Beryllium	67.7	0.51	mg/Kg wet	67.5		100	82.3-117.7	0.566	30	
Cadmium	78.4	0.51	mg/Kg wet	77.8		101	81.9-118.2	1.24	30	
Chromium	62.3	1.0	mg/Kg wet	65.0		95.8	78.7-120.6	2.18	30	
Copper	58.8	1.0	mg/Kg wet	56.4		104	80.4-119.6	0.296	30	
Lead	82.9	1.5	mg/Kg wet	85.6		96.9	82.4-117.8	1.69	30	
Nickel	60.9	1.0	mg/Kg wet	61.3		99.3	82.2-117.8	2.05	30	
Selenium	75.6	10	mg/Kg wet	78.9		95.8	77.1-122.3	0.247	30	
Silver	53.7	1.0	mg/Kg wet	54.2		99.1	74.3-125.4	0.626	30	
Thallium	189	5.1	mg/Kg wet	178		106	78.2-121.6	1.54	30	
Vanadium	52.7	2.0	mg/Kg wet	56.3		93.5	64.8-135.2	3.54	30	
Zinc	190	2.0	mg/Kg wet	198		96.1	79.7-120.8	0.393	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183203 - SW-846 3050B										
MRL Check (B183203-MRL1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Lead	0.863	0.72	mg/Kg wet	0.722		120	80-120			
Batch B183214 - SW-846 7471										
Blank (B183214-BLK1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Mercury	ND	0.025	mg/Kg wet							
LCS (B183214-BS1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Mercury	9.76	1.9	mg/Kg wet	9.36		104	73.7-126.3			
LCS Dup (B183214-BSD1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Mercury	9.10	1.9	mg/Kg wet	9.36		97.2	73.7-126.3	7.05	30	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183217 - % Solids										
Duplicate (B183217-DUP5)		**Source: 17G1256-01**		Prepared: 08/03/17 Analyzed: 08/04/17						
% Solids	89.2		% Wt		90.8			1.78	20	
Duplicate (B183217-DUP6)		**Source: 17G1256-02**		Prepared: 08/03/17 Analyzed: 08/04/17						
% Solids	82.3		% Wt		83.0			0.847	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-9-3A

Lab Sample ID: 17G1256-02 Date(s) Analyzed: 08/16/2017 08/16/2017

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.53	
	2	0.000	-0.030	0.030	0.56	5.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-10-1

Lab Sample ID: 17G1256-04

Date(s) Analyzed: 08/16/2017 08/16/2017

Instrument ID (1): ECD5

Instrument ID (2): ECD5

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.16	6.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-20-3

Lab Sample ID: 17G1256-10 Date(s) Analyzed: 08/16/2017 08/16/2017

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.30	
	2	0.000	-0.030	0.030	0.34	12.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-11-1

Lab Sample ID: 17G1256-15 Date(s) Analyzed: 08/16/2017 08/16/2017

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.29	
	2	0.000	-0.030	0.030	0.32	9.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-15-1

Lab Sample ID: 17G1256-19

Date(s) Analyzed: 08/16/2017 08/16/2017

Instrument ID (1): ECD5

Instrument ID (2): ECD5

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	1.0	
	2	0.000	-0.030	0.030	1.1	9.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-15-2A

Lab Sample ID: 17G1256-20

Date(s) Analyzed: 08/16/2017 08/16/2017

Instrument ID (1): ECD5

Instrument ID (2): ECD5

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.39	
	2	0.000	-0.030	0.030	0.39	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B183286-BS1

Date(s) Analyzed: 08/16/2017 08/16/2017

Instrument ID (1): ECD5

Instrument ID (2): ECD5

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.21	4.9
Aroclor-1260	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.18	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B183286-BSD1 Date(s) Analyzed: 08/16/2017 08/16/2017

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.20	5.1
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.18	5.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B183286-MS1 Date(s) Analyzed: 08/16/2017 08/16/2017

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.24	
	2	0.000	-0.030	0.030	0.24	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.27	
	2	0.000	-0.030	0.030	0.27	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B183286-MSD1 Date(s) Analyzed: 08/16/2017 08/16/2017

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.23	
	2	0.000	-0.030	0.030	0.24	4.3
Aroclor-1260	1	0.000	-0.030	0.030	0.25	
	2	0.000	-0.030	0.030	0.24	4.1

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
E	Reported result is estimated. Value reported over verified calibration range.
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
RL-11	Elevated reporting limit due to high concentration of target compounds.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
SW-846 8270D in Water	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17G1256

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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	SVOCs	RSR 15 Metals	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC7-SO-9-2	7/27/17	13:12		X	S	U	X								
2	WS-AOC7-SO-9-3A		13:14					X								
3	WS-AOC7-SO-9-3B		13:16						X	X			X			
4	WS-AOC7-SO-10-1		13:30					X								
5	WS-AOC7-SO-10-2		13:32					X								
6	WS-AOC7-SO-10-3A		13:34					X								
7	WS-AOC7-SO-10-3B		13:36							X						
8	WS-AOC7-SO-20-1		13:47					X		X						
9	WS-AOC7-SO-20-2		13:48					X		X						
10	WS-AOC7-SO-20-3		13:49					X		X						

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 7/27/17 1525
Received by: (signature)	Date/Time: 7/27/17 1525
Relinquished by: (signature)	Date/Time: 7-27-17 7:45
Received by: (signature)	Date/Time: 7/27/17 1945
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID #
7/27/17 1945
NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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17G 1256

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	SVOCs	RSR 15 Metals	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
10	WS-AOC7-SO-12-1	7/27/17	13:50		X	S	U	X								
11	WS-AOC7-SO-12-2	↓	13:52		↓	↓	↓	X								
12	WS-AOC7-SO-12-3A	↓	13:54		↓	↓	↓	X								
13	WS-AOC7-SO-12-3B	↓	13:56		↓	↓	↓			X		X				
14	WS-AOC7-SO-11-1	↓	13:40		↓	↓	↓	X								
15	WS-AOC7-SO-11-2	↓	13:42		↓	↓	↓	X								
16	WS-AOC7-SO-11-3A	↓	13:44		↓	↓	↓	X								
17	WS-AOC7-SO-11-3B	↓	13:46		↓	↓	↓			X						
18	WS-AOC7-SO-15-1	↓	14:00		↓	↓	↓	X								
19	WS-AOC7-SO-15-2A	↓	14:02		↓	↓	↓	X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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Comments:

Please hold excess volumes for possible SPLP analyses.

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H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
[signature] 7/27/17	1525
Received by: (signature) [signature]	7/27/17 525
Relinquished by: (signature) [signature]	7-27-17 7:45
Received by: (signature) [signature]	7/27/17 1945
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID #
7/27/17 1945
NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By JM Date 7/27/17 Time 1945

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.0, 2.3, 2.1
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? F
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A Who was notified? ____
Are there Rushes? N/A Who was notified? ____
Are there Short Holds? N/A Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? N/A
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A
Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	20
Meoh-	1	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-	2	Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen: 7/27/17 1945	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\A080617.SEC\A0806007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/6/17
Data File Name	A0806007.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	498947	548960	-9
c - 10	1.63	504890	548960	-8
c - 12	2.35	523064	548960	-5
c - 14	3.01	538273	548960	-2
c - 16	3.62	554877	548960	1
c - 18	4.23	552045	548960	1
o-Terphenyl	4.51	617304	548960	
c - 20	4.84	564142	548960	3
c - 22	5.34	578309	548960	5
c - 24	5.78	544489	548960	-1
c - 26	6.17	578509	548960	5
c - 28	6.53	572642	548960	4
c - 30	6.86	570509	548960	4
c - 32	7.17	554065	548960	1
c - 34	7.47	553258	548960	1
c - 36	7.78	546376	548960	0

* One compound allowed %D <= 50%

Samples

17G1310-01
17G1310-02
17G1439-01
17H0092-01
17H0092-02

D:\HPCHEM\1\DATA\A080617.SEC\A0806061.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/6/17
Data File Name	A0806061.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	517970	566638	-9
c - 10	1.63	523932	566638	-8
c - 12	2.35	540830	566638	-5
c - 14	3.02	555805	566638	-2
c - 16	3.62	572903	566638	1
c - 18	4.23	569699	566638	1
o-Terphenyl	4.52	638062	566638	
c - 20	4.84	581877	566638	3
c - 22	5.35	595392	566638	5
c - 24	5.78	559920	566638	-1
c - 26	6.17	594228	566638	5
c - 28	6.53	589070	566638	4
c - 30	6.86	588717	566638	4
c - 32	7.17	573707	566638	1
c - 34	7.47	571397	566638	1
c - 36	7.78	564127	566638	0

* One compound allowed %D <= 50%

Samples

17G1255-07@100X
17G1255-11@100X
17G1256-07@20X
17G1256-08@100X
17G1256-14@5X
17G1256-18@5X
17G1258-01@5X
17G1258-02@5X
17G1258-05@20X

D:\HPCHEM\1\DATA\A080717\A0807048.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/7/17
Data File Name	A0807048.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	413869	438678	-6
c - 10	1.64	427817	438678	-2
c - 12	2.37	442897	438678	1
c - 14	3.04	450884	438678	3
c - 16	3.65	460485	438678	5
c - 18	4.29	452368	438678	3
o-Terphenyl	4.57	493032	438678	
c - 20	4.89	453071	438678	3
c - 22	5.40	453851	438678	3
c - 24	5.84	418112	438678	-5
c - 26	6.23	437582	438678	0
c - 28	6.60	433678	438678	-1
c - 30	6.93	435063	438678	-1
c - 32	7.25	429774	438678	-2
c - 34	7.54	434901	438678	-1
c - 36	7.90	435822	438678	-1

* One compound allowed %D </= 50%

Samples

17H0210-01
17G1252-19RE1@10X
17G1307-14@5X

D:\HPCHEM\1\DATA\A080717.SEC\A0807049.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/7/17
Data File Name	A0807049.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	560741	599900	-7
c - 10	1.63	580393	599900	-3
c - 12	2.34	599002	599900	0
c - 14	3.01	607792	599900	1
c - 16	3.61	620074	599900	3
c - 18	4.23	612161	599900	2
o-Terphenyl	4.51	684844	599900	
c - 20	4.83	621532	599900	4
c - 22	5.34	631356	599900	5
c - 24	5.77	589308	599900	-2
c - 26	6.17	619866	599900	3
c - 28	6.53	608853	599900	1
c - 30	6.86	604230	599900	1
c - 32	7.17	583955	599900	-3
c - 34	7.46	581396	599900	-3
c - 36	7.78	577841	599900	-4

* One compound allowed %D <= 50%

Samples

17G1252-02RE1
17G1252-09RE1
17H0269-01
17G1256-03@50X
17G1256-10@100X
17G1309-03
17G1307-08
17G1252-14RE1

D:\HPCHEM\1\DATA\A080817\A0808006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/8/17
Data File Name	A0808006.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	419806	445868	-6
c - 10	1.64	427257	445868	-4
c - 12	2.37	442937	445868	-1
c - 14	3.05	455223	445868	2
c - 16	3.66	466991	445868	5
c - 18	4.29	461429	445868	3
o-Terphenyl	4.57	506716	445868	
c - 20	4.90	464826	445868	4
c - 22	5.40	467056	445868	5
c - 24	5.84	430244	445868	-4
c - 26	6.24	448725	445868	1
c - 28	6.60	441530	445868	-1
c - 30	6.93	441760	445868	-1
c - 32	7.25	435375	445868	-2
c - 34	7.54	441042	445868	-1
c - 36	7.90	443824	445868	0

* One compound allowed %D </= 50%

Samples

17G1256-09RE1@5X

D:\HPCHEM\1\DATA\A080817.SEC\A0808007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/8/17
Data File Name	A0808007.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	536380	572669	-6
c - 10	1.62	545897	572669	-5
c - 12	2.34	563451	572669	-2
c - 14	3.01	577013	572669	1
c - 16	3.61	591240	572669	3
c - 18	4.23	585452	572669	2
o-Terphenyl	4.51	657089	572669	
c - 20	4.83	594280	572669	4
c - 22	5.34	604598	572669	6
c - 24	5.78	564966	572669	-1
c - 26	6.17	594814	572669	4
c - 28	6.53	584574	572669	2
c - 30	6.86	579425	572669	1
c - 32	7.17	559566	572669	-2
c - 34	7.46	556252	572669	-3
c - 36	7.78	552133	572669	-4

* One compound allowed %D <= 50%

Samples

17H0005-01@250X

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17G1256

Laboratory Sample ID(s):

17G1256-01 thru 17G1256-20

Sample Date(s):

07/27/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 7470A, SW-846 7471B, SW-846 8082A, SW-846 8260C, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☐ Yes ☑ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/16/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 17, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17G1257

Enclosed are results of analyses for samples received by the laboratory on July 27, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 8/17/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G1257

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC7-SO-15-2B	17G1257-01	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8270D	
WS-AOC7-SO-15-3	17G1257-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-14-1	17G1257-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-14-2	17G1257-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-14-3A	17G1257-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-14-4	17G1257-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-13-1	17G1257-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-13-2	17G1257-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-13-3	17G1257-09	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-13-4	17G1257-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-14-3B	17G1257-11	Soil		CTDEP ETPH	
				SM 2540G	
WS-AOC7-SO-24-1	17G1257-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-24-2	17G1257-13	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-24-3	17G1257-14	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-21-1	17G1257-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-21-2	17G1257-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-21-3	17G1257-17	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	

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Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 8/17/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G1257

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC7-SO-21-4	17G1257-18	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-22-1	17G1257-19	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-22-2	17G1257-20	Soil		SM 2540G	
				SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

SW-846 8082A

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl
17G1257-04[WS-AOC7-SO-14-2], 17G1257-07[WS-AOC7-SO-13-1], 17G1257-08[WS-AOC7-SO-13-2], 17G1257-09[WS-AOC7-SO-13-3]

Decachlorobiphenyl [2C]
17G1257-04[WS-AOC7-SO-14-2], 17G1257-07[WS-AOC7-SO-13-1], 17G1257-08[WS-AOC7-SO-13-2], 17G1257-09[WS-AOC7-SO-13-3]

Tetrachloro-m-xylene
17G1257-04[WS-AOC7-SO-14-2], 17G1257-07[WS-AOC7-SO-13-1], 17G1257-08[WS-AOC7-SO-13-2], 17G1257-09[WS-AOC7-SO-13-3]

Tetrachloro-m-xylene [2C]
17G1257-04[WS-AOC7-SO-14-2], 17G1257-07[WS-AOC7-SO-13-1], 17G1257-08[WS-AOC7-SO-13-2], 17G1257-09[WS-AOC7-SO-13-3]

S-02

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl [2C]
17G1257-10[WS-AOC7-SO-13-4]

SW-846 8270D

Qualifications:

RL-12

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

17G1257-01[WS-AOC7-SO-15-2B]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-15-2B Sampled: 7/27/2017 14:06

Sample ID: 17G1257-01

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.39	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 15:33	BGL
Acenaphthylene	ND	0.39	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 15:33	BGL
Anthracene	ND	0.39	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 15:33	BGL
Benzo(a)anthracene	1.0	0.39	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 15:33	BGL
Benzo(a)pyrene	0.92	0.39	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 15:33	BGL
Benzo(b)fluoranthene	1.1	0.39	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 15:33	BGL
Benzo(g,h,i)perylene	0.67	0.39	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 15:33	BGL
Benzo(k)fluoranthene	0.46	0.39	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 15:33	BGL
Chrysene	0.94	0.39	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 15:33	BGL
Dibenz(a,h)anthracene	ND	0.39	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 15:33	BGL
Fluoranthene	2.3	0.39	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 15:33	BGL
Fluorene	ND	0.39	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 15:33	BGL
Indeno(1,2,3-cd)pyrene	0.59	0.39	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 15:33	BGL
2-Methylnaphthalene	ND	0.39	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 15:33	BGL
Naphthalene	ND	0.39	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 15:33	BGL
Phenanthrene	1.6	0.39	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 15:33	BGL
Pyrene	2.2	0.39	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 15:33	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	41.1	30-130		8/5/17 15:33
2-Fluorobiphenyl	48.2	30-130		8/5/17 15:33
p-Terphenyl-d14	55.9	30-130		8/5/17 15:33

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-15-2B Sampled: 7/27/2017 14:06

Sample ID: 17G1257-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	94	58	mg/Kg dry	5		CTDEP ETPH	8/3/17	8/5/17 0:36	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	50.5	50-150		8/5/17 0:36

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-15-2B Sampled: 7/27/2017 14:06

Sample ID: 17G1257-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.3		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-15-3 Sampled: 7/27/2017 14:04

Sample ID: 17G1257-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 17:39	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 17:39	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 17:39	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 17:39	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 17:39	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 17:39	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 17:39	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 17:39	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 17:39	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.6	30-150		8/16/17 17:39
Decachlorobiphenyl [2]	95.2	30-150		8/16/17 17:39
Tetrachloro-m-xylene [1]	77.7	30-150		8/16/17 17:39
Tetrachloro-m-xylene [2]	87.6	30-150		8/16/17 17:39

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-15-3 Sampled: 7/27/2017 14:04

Sample ID: 17G1257-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.9		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-14-1 Sampled: 7/27/2017 14:10

Sample ID: 17G1257-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 17:57	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 17:57	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 17:57	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 17:57	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 17:57	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 17:57	TG
Aroclor-1260 [2]	0.12	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 17:57	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 17:57	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 17:57	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.3	30-150		8/16/17 17:57
Decachlorobiphenyl [2]	63.5	30-150		8/16/17 17:57
Tetrachloro-m-xylene [1]	55.9	30-150		8/16/17 17:57
Tetrachloro-m-xylene [2]	67.9	30-150		8/16/17 17:57

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-14-1 Sampled: 7/27/2017 14:10

Sample ID: 17G1257-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.5		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-14-2 Sampled: 7/27/2017 14:12

Sample ID: 17G1257-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/3/17	8/17/17 5:55	TG
Aroclor-1221 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/3/17	8/17/17 5:55	TG
Aroclor-1232 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/3/17	8/17/17 5:55	TG
Aroclor-1242 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/3/17	8/17/17 5:55	TG
Aroclor-1248 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/3/17	8/17/17 5:55	TG
Aroclor-1254 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/3/17	8/17/17 5:55	TG
Aroclor-1260 [1]	6.0	1.1	mg/Kg dry	50		SW-846 8082A	8/3/17	8/17/17 5:55	TG
Aroclor-1262 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/3/17	8/17/17 5:55	TG
Aroclor-1268 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/3/17	8/17/17 5:55	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/17/17 5:55
Decachlorobiphenyl [2]	*	30-150	S-01	8/17/17 5:55
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/17/17 5:55
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/17/17 5:55

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-14-2 Sampled: 7/27/2017 14:12

Sample ID: 17G1257-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.4		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-14-3A Sampled: 7/27/2017 14:16

Sample ID: 17G1257-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.56	mg/Kg dry	25		SW-846 8082A	8/3/17	8/17/17 6:12	TG
Aroclor-1221 [1]	ND	0.56	mg/Kg dry	25		SW-846 8082A	8/3/17	8/17/17 6:12	TG
Aroclor-1232 [1]	ND	0.56	mg/Kg dry	25		SW-846 8082A	8/3/17	8/17/17 6:12	TG
Aroclor-1242 [1]	ND	0.56	mg/Kg dry	25		SW-846 8082A	8/3/17	8/17/17 6:12	TG
Aroclor-1248 [1]	ND	0.56	mg/Kg dry	25		SW-846 8082A	8/3/17	8/17/17 6:12	TG
Aroclor-1254 [1]	ND	0.56	mg/Kg dry	25		SW-846 8082A	8/3/17	8/17/17 6:12	TG
Aroclor-1260 [1]	2.4	0.56	mg/Kg dry	25		SW-846 8082A	8/3/17	8/17/17 6:12	TG
Aroclor-1262 [1]	ND	0.56	mg/Kg dry	25		SW-846 8082A	8/3/17	8/17/17 6:12	TG
Aroclor-1268 [1]	ND	0.56	mg/Kg dry	25		SW-846 8082A	8/3/17	8/17/17 6:12	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	99.0	30-150		8/17/17 6:12
Decachlorobiphenyl [2]	94.3	30-150		8/17/17 6:12
Tetrachloro-m-xylene [1]	90.2	30-150		8/17/17 6:12
Tetrachloro-m-xylene [2]	102	30-150		8/17/17 6:12

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-14-3A Sampled: 7/27/2017 14:16

Sample ID: 17G1257-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.1		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-14-4 Sampled: 7/27/2017 14:18

Sample ID: 17G1257-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	8/3/17	8/16/17 18:49	TG
Aroclor-1221 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	8/3/17	8/16/17 18:49	TG
Aroclor-1232 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	8/3/17	8/16/17 18:49	TG
Aroclor-1242 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	8/3/17	8/16/17 18:49	TG
Aroclor-1248 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	8/3/17	8/16/17 18:49	TG
Aroclor-1254 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	8/3/17	8/16/17 18:49	TG
Aroclor-1260 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	8/3/17	8/16/17 18:49	TG
Aroclor-1262 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	8/3/17	8/16/17 18:49	TG
Aroclor-1268 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	8/3/17	8/16/17 18:49	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.5	30-150		8/16/17 18:49
Decachlorobiphenyl [2]	91.8	30-150		8/16/17 18:49
Tetrachloro-m-xylene [1]	87.0	30-150		8/16/17 18:49
Tetrachloro-m-xylene [2]	94.7	30-150		8/16/17 18:49

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-14-4 Sampled: 7/27/2017 14:18

Sample ID: 17G1257-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.1		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-13-1 Sampled: 7/27/2017 14:22

Sample ID: 17G1257-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/3/17	8/17/17 6:29	TG
Aroclor-1221 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/3/17	8/17/17 6:29	TG
Aroclor-1232 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/3/17	8/17/17 6:29	TG
Aroclor-1242 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/3/17	8/17/17 6:29	TG
Aroclor-1248 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/3/17	8/17/17 6:29	TG
Aroclor-1254 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/3/17	8/17/17 6:29	TG
Aroclor-1260 [1]	9.0	1.1	mg/Kg dry	50		SW-846 8082A	8/3/17	8/17/17 6:29	TG
Aroclor-1262 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/3/17	8/17/17 6:29	TG
Aroclor-1268 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/3/17	8/17/17 6:29	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/17/17 6:29
Decachlorobiphenyl [2]	*	30-150	S-01	8/17/17 6:29
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/17/17 6:29
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/17/17 6:29

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-13-1 Sampled: 7/27/2017 14:22

Sample ID: 17G1257-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.0		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-13-2 Sampled: 7/27/2017 14:23

Sample ID: 17G1257-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	10	mg/Kg dry	500		SW-846 8082A	8/3/17	8/17/17 6:47	TG
Aroclor-1221 [1]	ND	10	mg/Kg dry	500		SW-846 8082A	8/3/17	8/17/17 6:47	TG
Aroclor-1232 [1]	ND	10	mg/Kg dry	500		SW-846 8082A	8/3/17	8/17/17 6:47	TG
Aroclor-1242 [1]	ND	10	mg/Kg dry	500		SW-846 8082A	8/3/17	8/17/17 6:47	TG
Aroclor-1248 [1]	ND	10	mg/Kg dry	500		SW-846 8082A	8/3/17	8/17/17 6:47	TG
Aroclor-1254 [1]	ND	10	mg/Kg dry	500		SW-846 8082A	8/3/17	8/17/17 6:47	TG
Aroclor-1260 [1]	52	10	mg/Kg dry	500		SW-846 8082A	8/3/17	8/17/17 6:47	TG
Aroclor-1262 [1]	ND	10	mg/Kg dry	500		SW-846 8082A	8/3/17	8/17/17 6:47	TG
Aroclor-1268 [1]	ND	10	mg/Kg dry	500		SW-846 8082A	8/3/17	8/17/17 6:47	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/17/17 6:47
Decachlorobiphenyl [2]	*	30-150	S-01	8/17/17 6:47
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/17/17 6:47
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/17/17 6:47

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-13-2 Sampled: 7/27/2017 14:23

Sample ID: 17G1257-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.6		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-13-3 Sampled: 7/27/2017 14:24

Sample ID: 17G1257-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/3/17	8/17/17 7:04	TG
Aroclor-1221 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/3/17	8/17/17 7:04	TG
Aroclor-1232 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/3/17	8/17/17 7:04	TG
Aroclor-1242 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/3/17	8/17/17 7:04	TG
Aroclor-1248 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/3/17	8/17/17 7:04	TG
Aroclor-1254 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/3/17	8/17/17 7:04	TG
Aroclor-1260 [1]	58	11	mg/Kg dry	500		SW-846 8082A	8/3/17	8/17/17 7:04	TG
Aroclor-1262 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/3/17	8/17/17 7:04	TG
Aroclor-1268 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/3/17	8/17/17 7:04	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/17/17 7:04
Decachlorobiphenyl [2]	*	30-150	S-01	8/17/17 7:04
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/17/17 7:04
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/17/17 7:04

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-13-3 Sampled: 7/27/2017 14:24

Sample ID: 17G1257-09

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	340	110	mg/Kg dry	10		CTDEP ETPH	8/3/17	8/5/17 0:54	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	59.3	50-150		8/5/17 0:54

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-13-3 Sampled: 7/27/2017 14:24

Sample ID: 17G1257-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.8		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-13-4 Sampled: 7/27/2017 14:25

Sample ID: 17G1257-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 20:45	TG
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 20:45	TG
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 20:45	TG
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 20:45	TG
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 20:45	TG
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 20:45	TG
Aroclor-1260 [2]	0.25	0.14	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 20:45	TG
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 20:45	TG
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 20:45	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	106	30-150		8/16/17 20:45
Decachlorobiphenyl [2]	**171** *	30-150	S-02	8/16/17 20:45
Tetrachloro-m-xylene [1]	81.3	30-150		8/16/17 20:45
Tetrachloro-m-xylene [2]	97.2	30-150		8/16/17 20:45

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-13-4 Sampled: 7/27/2017 14:25

Sample ID: 17G1257-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	73.4		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-14-3B Sampled: 7/27/2017 14:14

Sample ID: 17G1257-11

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	300	110	mg/Kg dry	10		CTDEP ETPH	8/3/17	8/5/17 1:12	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	94.7	50-150		8/5/17 1:12

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-14-3B Sampled: 7/27/2017 14:14

Sample ID: 17G1257-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.1		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-24-1 Sampled: 7/27/2017 14:30

Sample ID: 17G1257-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 21:02	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 21:02	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 21:02	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 21:02	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 21:02	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 21:02	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 21:02	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 21:02	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 21:02	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.5	30-150		8/16/17 21:02
Decachlorobiphenyl [2]	88.9	30-150		8/16/17 21:02
Tetrachloro-m-xylene [1]	77.1	30-150		8/16/17 21:02
Tetrachloro-m-xylene [2]	85.4	30-150		8/16/17 21:02

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-24-1 Sampled: 7/27/2017 14:30

Sample ID: 17G1257-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.1		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-24-2 Sampled: 7/27/2017 14:31

Sample ID: 17G1257-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 21:19	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 21:19	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 21:19	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 21:19	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 21:19	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 21:19	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 21:19	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 21:19	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 21:19	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	104	30-150		8/16/17 21:19
Decachlorobiphenyl [2]	97.3	30-150		8/16/17 21:19
Tetrachloro-m-xylene [1]	92.1	30-150		8/16/17 21:19
Tetrachloro-m-xylene [2]	102	30-150		8/16/17 21:19

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-24-2 Sampled: 7/27/2017 14:31

Sample ID: 17G1257-13

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	12	mg/Kg dry	1		CTDEP ETPH	8/3/17	8/4/17 21:56	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	65.6	50-150		8/4/17 21:56

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-24-2 Sampled: 7/27/2017 14:31

Sample ID: 17G1257-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.8		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-24-3 Sampled: 7/27/2017 14:32

Sample ID: 17G1257-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 21:36	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 21:36	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 21:36	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 21:36	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 21:36	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 21:36	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 21:36	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 21:36	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 21:36	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	101	30-150		8/16/17 21:36
Decachlorobiphenyl [2]	133	30-150		8/16/17 21:36
Tetrachloro-m-xylene [1]	81.4	30-150		8/16/17 21:36
Tetrachloro-m-xylene [2]	89.0	30-150		8/16/17 21:36

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-24-3 Sampled: 7/27/2017 14:32

Sample ID: 17G1257-14

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	190	61	mg/Kg dry	5		CTDEP ETPH	8/3/17	8/5/17 1:29	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	50.1	50-150		8/5/17 1:29

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-24-3 Sampled: 7/27/2017 14:32

Sample ID: 17G1257-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.4		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-21-1 Sampled: 7/27/2017 14:33

Sample ID: 17G1257-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 21:54	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 21:54	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 21:54	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 21:54	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 21:54	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 21:54	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 21:54	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 21:54	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 21:54	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	109	30-150		8/16/17 21:54
Decachlorobiphenyl [2]	113	30-150		8/16/17 21:54
Tetrachloro-m-xylene [1]	97.0	30-150		8/16/17 21:54
Tetrachloro-m-xylene [2]	105	30-150		8/16/17 21:54

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-21-1 Sampled: 7/27/2017 14:33

Sample ID: 17G1257-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.2		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-21-2 Sampled: 7/27/2017 14:34

Sample ID: 17G1257-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 22:11	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 22:11	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 22:11	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 22:11	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 22:11	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 22:11	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 22:11	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 22:11	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 22:11	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	99.5	30-150		8/16/17 22:11
Decachlorobiphenyl [2]	104	30-150		8/16/17 22:11
Tetrachloro-m-xylene [1]	88.8	30-150		8/16/17 22:11
Tetrachloro-m-xylene [2]	96.4	30-150		8/16/17 22:11

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-21-2 Sampled: 7/27/2017 14:34

Sample ID: 17G1257-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.2		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-21-3 Sampled: 7/27/2017 14:35

Sample ID: 17G1257-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 22:28	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 22:28	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 22:28	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 22:28	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 22:28	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 22:28	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 22:28	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 22:28	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 22:28	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.2	30-150		8/16/17 22:28
Decachlorobiphenyl [2]	89.3	30-150		8/16/17 22:28
Tetrachloro-m-xylene [1]	84.5	30-150		8/16/17 22:28
Tetrachloro-m-xylene [2]	94.0	30-150		8/16/17 22:28

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-21-3 Sampled: 7/27/2017 14:35

Sample ID: 17G1257-17

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	190	110	mg/Kg dry	10		CTDEP ETPH	8/3/17	8/5/17 1:47	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	88.9	50-150		8/5/17 1:47

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-21-3 Sampled: 7/27/2017 14:35

Sample ID: 17G1257-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.7		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-21-4 Sampled: 7/27/2017 14:36

Sample ID: 17G1257-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 22:45	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 22:45	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 22:45	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 22:45	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 22:45	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 22:45	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 22:45	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 22:45	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 22:45	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.8	30-150		8/16/17 22:45
Decachlorobiphenyl [2]	85.2	30-150		8/16/17 22:45
Tetrachloro-m-xylene [1]	78.4	30-150		8/16/17 22:45
Tetrachloro-m-xylene [2]	88.7	30-150		8/16/17 22:45

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-21-4 Sampled: 7/27/2017 14:36

Sample ID: 17G1257-18

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	12	11	mg/Kg dry	1		CTDEP ETPH	8/3/17	8/4/17 22:14	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	64.4	50-150		8/4/17 22:14

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-21-4 Sampled: 7/27/2017 14:36

Sample ID: 17G1257-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.4		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-22-1 Sampled: 7/27/2017 14:37

Sample ID: 17G1257-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 23:03	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 23:03	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 23:03	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 23:03	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 23:03	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 23:03	TG
Aroclor-1260 [2]	0.14	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 23:03	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 23:03	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 23:03	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	99.8	30-150		8/16/17 23:03
Decachlorobiphenyl [2]	98.7	30-150		8/16/17 23:03
Tetrachloro-m-xylene [1]	89.7	30-150		8/16/17 23:03
Tetrachloro-m-xylene [2]	99.8	30-150		8/16/17 23:03

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-22-1 Sampled: 7/27/2017 14:37

Sample ID: 17G1257-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.9		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-22-2 Sampled: 7/27/2017 14:38

Sample ID: 17G1257-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 23:20	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 23:20	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 23:20	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 23:20	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 23:20	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 23:20	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 23:20	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 23:20	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/16/17 23:20	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	104	30-150		8/16/17 23:20
Decachlorobiphenyl [2]	100	30-150		8/16/17 23:20
Tetrachloro-m-xylene [1]	97.9	30-150		8/16/17 23:20
Tetrachloro-m-xylene [2]	108	30-150		8/16/17 23:20

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1257

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-22-2 Sampled: 7/27/2017 14:38

Sample ID: 17G1257-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.0		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1257-01 [WS-AOC7-SO-15-2B]	B183209	30.0	1.00	08/03/17
17G1257-09 [WS-AOC7-SO-13-3]	B183209	30.0	1.00	08/03/17
17G1257-11 [WS-AOC7-SO-14-3B]	B183209	30.0	1.00	08/03/17
17G1257-13 [WS-AOC7-SO-24-2]	B183209	30.0	1.00	08/03/17
17G1257-14 [WS-AOC7-SO-24-3]	B183209	30.0	1.00	08/03/17
17G1257-17 [WS-AOC7-SO-21-3]	B183209	30.0	1.00	08/03/17
17G1257-18 [WS-AOC7-SO-21-4]	B183209	30.0	1.00	08/03/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G1257-01 [WS-AOC7-SO-15-2B]	B183217	08/03/17
17G1257-02 [WS-AOC7-SO-15-3]	B183217	08/03/17
17G1257-03 [WS-AOC7-SO-14-1]	B183217	08/03/17
17G1257-04 [WS-AOC7-SO-14-2]	B183217	08/03/17
17G1257-05 [WS-AOC7-SO-14-3A]	B183217	08/03/17
17G1257-06 [WS-AOC7-SO-14-4]	B183217	08/03/17
17G1257-07 [WS-AOC7-SO-13-1]	B183217	08/03/17
17G1257-08 [WS-AOC7-SO-13-2]	B183217	08/03/17
17G1257-09 [WS-AOC7-SO-13-3]	B183217	08/03/17
17G1257-10 [WS-AOC7-SO-13-4]	B183217	08/03/17
17G1257-11 [WS-AOC7-SO-14-3B]	B183217	08/03/17
17G1257-12 [WS-AOC7-SO-24-1]	B183217	08/03/17
17G1257-13 [WS-AOC7-SO-24-2]	B183217	08/03/17
17G1257-14 [WS-AOC7-SO-24-3]	B183217	08/03/17
17G1257-15 [WS-AOC7-SO-21-1]	B183217	08/03/17
17G1257-16 [WS-AOC7-SO-21-2]	B183217	08/03/17
17G1257-17 [WS-AOC7-SO-21-3]	B183217	08/03/17
17G1257-18 [WS-AOC7-SO-21-4]	B183217	08/03/17
17G1257-19 [WS-AOC7-SO-22-1]	B183217	08/03/17
17G1257-20 [WS-AOC7-SO-22-2]	B183217	08/03/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1257-02 [WS-AOC7-SO-15-3]	B183285	10.0	10.0	08/03/17
17G1257-03 [WS-AOC7-SO-14-1]	B183285	10.0	10.0	08/03/17
17G1257-04 [WS-AOC7-SO-14-2]	B183285	10.0	10.0	08/03/17
17G1257-05 [WS-AOC7-SO-14-3A]	B183285	10.0	10.0	08/03/17
17G1257-06 [WS-AOC7-SO-14-4]	B183285	10.0	10.0	08/03/17
17G1257-07 [WS-AOC7-SO-13-1]	B183285	10.0	10.0	08/03/17
17G1257-08 [WS-AOC7-SO-13-2]	B183285	10.0	10.0	08/03/17
17G1257-09 [WS-AOC7-SO-13-3]	B183285	10.0	10.0	08/03/17
17G1257-10 [WS-AOC7-SO-13-4]	B183285	10.0	10.0	08/03/17
17G1257-12 [WS-AOC7-SO-24-1]	B183285	10.0	10.0	08/03/17
17G1257-13 [WS-AOC7-SO-24-2]	B183285	10.0	10.0	08/03/17
17G1257-14 [WS-AOC7-SO-24-3]	B183285	10.0	10.0	08/03/17
17G1257-15 [WS-AOC7-SO-21-1]	B183285	10.0	10.0	08/03/17
17G1257-16 [WS-AOC7-SO-21-2]	B183285	10.0	10.0	08/03/17
17G1257-17 [WS-AOC7-SO-21-3]	B183285	10.0	10.0	08/03/17
17G1257-18 [WS-AOC7-SO-21-4]	B183285	10.0	10.0	08/03/17
17G1257-19 [WS-AOC7-SO-22-1]	B183285	10.0	10.0	08/03/17
17G1257-20 [WS-AOC7-SO-22-2]	B183285	10.0	10.0	08/03/17

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Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1257-01 [WS-AOC7-SO-15-2B]	B183204	30.0	1.00	08/03/17

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183204 - SW-846 3546										
Blank (B183204-BLK1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.14*		mg/Kg wet	3.33		64.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.15*		mg/Kg wet	3.33		64.4	30-130			
Surrogate: p-Terphenyl-d14	*2.52*		mg/Kg wet	3.33		75.7	30-130			
LCS (B183204-BS1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140			
Acenaphthylene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140			
Anthracene	1.08	0.17	mg/Kg wet	1.67		64.8	40-140			
Benzo(a)anthracene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140			
Benzo(a)pyrene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Benzo(b)fluoranthene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140			
Benzo(g,h,i)perylene	0.934	0.17	mg/Kg wet	1.67		56.0	40-140			
Benzo(k)fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140			
Chrysene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140			
Dibenz(a,h)anthracene	0.917	0.17	mg/Kg wet	1.67		55.0	40-140			
Fluoranthene	1.03	0.17	mg/Kg wet	1.67		62.0	40-140			
Fluorene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140			
Indeno(1,2,3-cd)pyrene	0.941	0.17	mg/Kg wet	1.67		56.5	40-140			
2-Methylnaphthalene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140			
Naphthalene	1.11	0.17	mg/Kg wet	1.67		66.6	40-140			
Phenanthrene	1.09	0.17	mg/Kg wet	1.67		65.4	40-140			
Pyrene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Surrogate: Nitrobenzene-d5	*2.64*		mg/Kg wet	3.33		79.3	30-130			
Surrogate: 2-Fluorobiphenyl	*2.63*		mg/Kg wet	3.33		78.9	30-130			
Surrogate: p-Terphenyl-d14	*2.55*		mg/Kg wet	3.33		76.5	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183204 - SW-846 3546										
LCS Dup (B183204-BSD1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	1.00	0.17	mg/Kg wet	1.67		60.3	40-140	8.39	30	
Acenaphthylene	1.00	0.17	mg/Kg wet	1.67		60.1	40-140	10.1	30	
Anthracene	1.01	0.17	mg/Kg wet	1.67		60.9	40-140	6.27	30	
Benzo(a)anthracene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140	6.55	30	
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	4.07	30	
Benzo(b)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	5.53	30	
Benzo(g,h,i)perylene	0.891	0.17	mg/Kg wet	1.67		53.5	40-140	4.68	30	
Benzo(k)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	2.69	30	
Chrysene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140	5.47	30	
Dibenz(a,h)anthracene	0.882	0.17	mg/Kg wet	1.67		52.9	40-140	3.89	30	
Fluoranthene	0.965	0.17	mg/Kg wet	1.67		57.9	40-140	6.90	30	
Fluorene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	11.1	30	
Indeno(1,2,3-cd)pyrene	0.869	0.17	mg/Kg wet	1.67		52.1	40-140	7.96	30	
2-Methylnaphthalene	1.04	0.17	mg/Kg wet	1.67		62.7	40-140	13.3	30	
Naphthalene	0.964	0.17	mg/Kg wet	1.67		57.8	40-140	14.1	30	
Phenanthrene	1.01	0.17	mg/Kg wet	1.67		60.7	40-140	7.46	30	
Pyrene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140	6.35	30	
Surrogate: Nitrobenzene-d5	*2.27*		mg/Kg wet	3.33		68.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.38*		mg/Kg wet	3.33		71.4	30-130			
Surrogate: p-Terphenyl-d14	*2.40*		mg/Kg wet	3.33		72.1	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183285 - SW-846 3540C										
Blank (B183285-BLK1)				Prepared: 08/03/17 Analyzed: 08/16/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.200*		mg/Kg wet	0.200		100	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.181*		mg/Kg wet	0.200		90.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.162*		mg/Kg wet	0.200		81.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.181*		mg/Kg wet	0.200		90.3	30-150			
LCS (B183285-BS1)				Prepared: 08/03/17 Analyzed: 08/16/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		91.2	40-140			
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		99.0	40-140			
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		89.6	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		85.5	40-140			
Surrogate: Decachlorobiphenyl	*0.211*		mg/Kg wet	0.200		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.190*		mg/Kg wet	0.200		94.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.174*		mg/Kg wet	0.200		86.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.190*		mg/Kg wet	0.200		95.1	30-150			
LCS Dup (B183285-BSD1)				Prepared: 08/03/17 Analyzed: 08/16/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		96.5	40-140	5.64	30	
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		102	40-140	3.25	30	
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		92.1	40-140	2.69	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		87.4	40-140	2.25	30	
Surrogate: Decachlorobiphenyl	*0.223*		mg/Kg wet	0.200		111	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.198*		mg/Kg wet	0.200		98.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.181*		mg/Kg wet	0.200		90.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.200*		mg/Kg wet	0.200		99.9	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183285 - SW-846 3540C										
Matrix Spike (B183285-MS1)		**Source: 17G1257-02**		Prepared: 08/03/17 Analyzed: 08/16/17						
Aroclor-1016	0.24	0.12	mg/Kg dry	0.247	ND	98.4	40-140			
Aroclor-1016 [2C]	0.29	0.12	mg/Kg dry	0.247	ND	117	40-140			
Aroclor-1260	0.29	0.12	mg/Kg dry	0.247	ND	116	40-140			
Aroclor-1260 [2C]	0.28	0.12	mg/Kg dry	0.247	ND	115	40-140			
Surrogate: Decachlorobiphenyl	*0.252*		mg/Kg dry	0.247		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.280*		mg/Kg dry	0.247		113	30-150			
Surrogate: Tetrachloro-m-xylene	*0.226*		mg/Kg dry	0.247		91.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.255*		mg/Kg dry	0.247		103	30-150			
Matrix Spike Dup (B183285-MSD1)		**Source: 17G1257-02**		Prepared: 08/03/17 Analyzed: 08/16/17						
Aroclor-1016	0.24	0.12	mg/Kg dry	0.247	ND	96.1	40-140	2.37	50	
Aroclor-1016 [2C]	0.25	0.12	mg/Kg dry	0.247	ND	101	40-140	15.0	50	
Aroclor-1260	0.21	0.12	mg/Kg dry	0.247	ND	84.4	40-140	31.6	50	
Aroclor-1260 [2C]	0.22	0.12	mg/Kg dry	0.247	ND	88.0	40-140	26.8	50	
Surrogate: Decachlorobiphenyl	*0.212*		mg/Kg dry	0.247		85.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.221*		mg/Kg dry	0.247		89.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.194*		mg/Kg dry	0.247		78.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.215*		mg/Kg dry	0.247		87.0	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183209 - SW-846 3546										
Blank (B183209-BLK1)				Prepared & Analyzed: 08/03/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*2.17*		mg/Kg wet	3.33		65.2	50-150			
LCS (B183209-BS1)				Prepared & Analyzed: 08/03/17						
CT ETPH	21.7	10	mg/Kg wet	33.3		65.2	60-120			
Surrogate: o-Terphenyl	*2.25*		mg/Kg wet	3.33		67.5	50-150			
LCS Dup (B183209-BSD1)				Prepared & Analyzed: 08/03/17						
CT ETPH	22.9	10	mg/Kg wet	33.3		68.8	60-120	5.37	30	
Surrogate: o-Terphenyl	*2.32*		mg/Kg wet	3.33		69.5	50-150			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183217 - % Solids										
Duplicate (B183217-DUP7)		**Source: 17G1257-01**		Prepared: 08/03/17 Analyzed: 08/04/17						
% Solids	84.1		% Wt		86.3			2.58	20	
Duplicate (B183217-DUP8)		**Source: 17G1257-02**		Prepared: 08/03/17 Analyzed: 08/04/17						
% Solids	82.5		% Wt		80.9			1.96	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-14-1

Lab Sample ID: 17G1257-03

Date(s) Analyzed: 08/16/2017 08/16/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.11	
	2	0.000	-0.030	0.030	0.12	8.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-14-2

Lab Sample ID: 17G1257-04

Date(s) Analyzed: 08/17/2017 08/17/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	6.0	
	2	0.000	-0.030	0.030	6.0	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-14-3A

Lab Sample ID: 17G1257-05

Date(s) Analyzed: 08/17/2017 08/17/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	2.4	
	2	0.000	-0.030	0.030	2.4	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-13-1

Lab Sample ID: 17G1257-07

Date(s) Analyzed: 08/17/2017 08/17/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	9.0	
	2	0.000	-0.030	0.030	8.8	2.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-13-2

Lab Sample ID: 17G1257-08

Date(s) Analyzed: 08/17/2017 08/17/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	52	
	2	0.000	-0.030	0.030	52	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-13-3

Lab Sample ID: 17G1257-09

Date(s) Analyzed: 08/17/2017 08/17/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	58	
	2	0.000	-0.030	0.030	57	1.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-13-4

Lab Sample ID: 17G1257-10

Date(s) Analyzed: 08/16/2017 08/16/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.22	
	2	0.000	-0.030	0.030	0.25	12.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-22-1

Lab Sample ID: 17G1257-19

Date(s) Analyzed: 08/16/2017 08/16/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.14	7.4

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
RL-12	Elevated reporting limit due to matrix interference.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

179 1257

http://www.contestlabs.com

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con-test ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
39 Spruce Street
East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPHs	SVOCs	RSRs Metals	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC7-SO-15-2B	7/27/17	14:06		X	S	U		X	X						
2	WS-AOC7-SO-15-3		14:04					X								
3	WS-AOC7-~~[illegible]~~-SO-14-1		14:10					X								
4	WS-AOC7-SO-14-2		14:12					X								
5	WS-AOC7-SO-14-3A		14:16					X								
6	WS-AOC7-SO-14-4		14:18					X								
7	~~[illegible]~~-AOC7-SO-13-1		14:22					X								
8	WS-AOC7-SO-13-2		14:23					X								
9	WS-AOC7-SO-13-3		14:24					X		X						
10	WS-AOC7-SO-13-4		14:25					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
[signature] 7/27/17	1525
Received by: (signature) [signature]	Date/Time: 7/27/17 1525
Relinquished by: (signature) [signature] 7-27-17	Date/Time: 7:45
Received by: (signature) [signature] 7/27/17	Date/Time: 1945
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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17G1257

con-test ANALYTICAL LABORATORY

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Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time

7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required

1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery

Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	SVOCs	RCRA 15 Metal	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC7-SO-14-3B	7/27/17	14:14		X	S	U			X						
12	WS-AOC7-SO-24-1		14:30					X								
13	WS-AOC7-SO-24-2		14:31					X		X						
14	WS-AOC7-SO-24-3		14:32					X		X						
15	WS-AOC7-SO-21-1		14:33					X								
16	WS-AOC7-SO-21-2		14:34					X								
17	WS-AOC7-SO-21-3		14:35					X		X						
18	WS-AOC7-SO-21-4		14:36					X		X						
19	WS-AOC7-SO-22-1		14:37					X								
20	WS-AOC7-SO-22-2		14:38					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Relinquished by: (signature)	Date/Time:
7/27/17	1525
Received by: (signature)	Date/Time:
	7/27/17 1525
Relinquished by: (signature)	Date/Time:
7-27-17	7:45
Received by: (signature)	Date/Time:
7/27/17	1945
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements

MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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F: 413-525-6405
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con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By JM Date 7/27/17 Time 1945

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.0, 2.3, 2.1
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? F
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A Who was notified? ____
Are there Rushes? N/A Who was notified? ____
Are there Short Holds? N/A Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? N/A
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A
Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	20
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\A080417\A0804042.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/4/17
Data File Name	A0804042.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.07	496930	540759	-8
c - 10	1.43	504684	540759	-7
c - 12	2.16	531774	540759	-2
c - 14	2.84	548652	540759	1
c - 16	3.44	561658	540759	4
c - 18	4.02	556185	540759	3
o-Terphenyl	4.30	591043	540759	
c - 20	4.63	564764	540759	4
c - 22	5.15	571232	540759	6
c - 24	5.60	531546	540759	-2
c - 26	6.00	557639	540759	3
c - 28	6.36	545631	540759	1
c - 30	6.69	541457	540759	0
c - 32	7.00	529841	540759	-2
c - 34	7.30	534051	540759	-1
c - 36	7.58	535342	540759	-1

* One compound allowed %D <= 50%

Samples

17G1258-10
17G1258-11
17G1188-01
17G1188-02
17G1188-03

D:\HPCHEM\1\DATA\A080417\A0804078.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/4/17
Data File Name	A0804078.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.07	451447	495950	-9
c - 10	1.43	453087	495950	-9
c - 12	2.16	479235	495950	-3
c - 14	2.84	491947	495950	-1
c - 16	3.44	506893	495950	2
c - 18	4.02	504487	495950	2
o-Terphenyl	4.31	554881	495950	
c - 20	4.63	517031	495950	4
c - 22	5.15	526767	495950	6
c - 24	5.60	494638	495950	0
c - 26	5.99	520797	495950	5
c - 28	6.35	509017	495950	3
c - 30	6.69	504152	495950	2
c - 32	7.00	490587	495950	-1
c - 34	7.29	493940	495950	0
c - 36	7.58	495218	495950	0

* One compound allowed %D <= 50%

Samples

17G1257-13
17G1257-18
17G1254-18
17G1169-17
17G1075-10@5X
17G1075-13@5X
17G1172-11
17G1074-19
17G1074-06@10X
17G1074-09@10X
17G1077-17RE1@20X

D:\HPCHEM\1\DATA\A080417.SEC\A0804079.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/4/17
Data File Name	A0804079.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	412622	444472	-7
c - 10	1.50	420598	444472	-5
c - 12	2.22	438402	444472	-1
c - 14	2.88	451044	444472	1
c - 16	3.48	459256	444472	3
c - 18	4.05	452050	444472	2
o-Terphenyl	4.35	491812	444472	
c - 20	4.66	458504	444472	3
c - 22	5.17	461579	444472	4
c - 24	5.61	429319	444472	-3
c - 26	6.01	451685	444472	2
c - 28	6.36	450715	444472	1
c - 30	6.70	447938	444472	1
c - 32	7.00	440516	444472	-1
c - 34	7.29	445571	444472	0
c - 36	7.57	447287	444472	1

* One compound allowed %D <= 50%

Samples

17G1254-08@20X
17G1254-13@10X
17G1169-09@5X
17G1172-03@20X
17G1172-07@10X
17G1257-01@5X
17G1257-09@10X
17G1257-11@10X
17G1257-14@5X
17G1257-17@10X
17G1255-03@20X

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17G1257

Laboratory Sample ID(s):

17G1257-01 thru 17G1257-20

Sample Date(s):

07/27/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☐ Yes ☑ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/17/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17G1257

Laboratory Sample ID(s):

17G1257-01 thru 17G1257-20

Sample Date(s):

07/27/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☐ Yes ☑ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/17/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 16, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17G1258

Enclosed are results of analyses for samples received by the laboratory on July 27, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 8/16/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G1258

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC7-SO-22-3	17G1258-01	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-22-4	17G1258-02	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-23-1	17G1258-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-23-2	17G1258-04	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8260C	
WS-AOC7-SO-23-3	17G1258-05	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
Trip Blank	17G1258-06	Trip Blank Soil		SW-846 8260C	
WS-AOC13-SO-DUP-28	17G1258-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-DUP-29	17G1258-08	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
WS-AOC7-SO-DUP-30	17G1258-09	Soil		SM 2540G	
				SW-846 8260C	
EB17	17G1258-10	Equipment Blank Water		CTDEP ETPH	
				SW-846 6020A-B	
				SW-846 7470A	
				SW-846 8082A	
				SW-846 8270D	
EB18	17G1258-11	Equipment Blank Water		CTDEP ETPH	
				SW-846 6020A-B	
				SW-846 7470A	
				SW-846 8082A	
				SW-846 8270D	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT - No percent solids volume submitted on sample WS-AOC70SO-DUP-30. Result for this sample used from sample WS-AOC7SO-9-3-B.

For method 8260, Sample 17G1258-04 was run with the methanol vial due to sample matrix.

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CTDEP ETPH

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

o-Terphenyl

17G1258-05[WS-AOC7-SO-23-3], 17G1258-08[WS-AOC7-SO-DUP-29]

SW-846 8082A

Qualifications:

S-12

Surrogate recovery is outside of control limits on confirmatory column, but within control limits on primary column. Data validation is not affected.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl

17G1258-10[EB17]

SW-846 8260C

Qualifications:

L-01

Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

Analyte & Samples(s) Qualified:

Bromomethane

B183194-BS1

L-03

Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

2,2-Dichloropropane

17G1258-04[WS-AOC7-SO-23-2], B183194-BLK1, B183194-BS1

Methyl tert-Butyl Ether (MTBE)

17G1258-09[WS-AOC7-SO-DUP-30], B182955-BLK1, B182955-BS1

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

17G1258-09[WS-AOC7-SO-DUP-30]

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

1,2-Dibromo-3-chloropropane (DB

17G1258-09[WS-AOC7-SO-DUP-30], B182955-BLK1, B182955-BS1

2,2-Dichloropropane

17G1258-04[WS-AOC7-SO-23-2], B183194-BLK1, B183194-BS1

Methyl tert-Butyl Ether (MTBE)

17G1258-09[WS-AOC7-SO-DUP-30], B182955-BLK1, B182955-BS1

trans-1,4-Dichloro-2-butene

17G1258-04[WS-AOC7-SO-23-2], B183194-BLK1, B183194-BS1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

Tetrahydrofuran

17G1258-06[Trip Blank], B183261-BLK1, B183261-BS1

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V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Bromomethane
B183194-BS1

SW-846 8270D

Qualifications:

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

1,2,4-Trichlorobenzene
17G1258-10[EB17], 17G1258-11[EB18], B183253-BLK1, B183253-BS1, B183253-BSD1

Hexachlorobutadiene
17G1258-10[EB17], 17G1258-11[EB18], B183253-BLK1, B183253-BS1, B183253-BSD1

RL-03

Elevated reporting limit based on lowest point in calibration.
Requested reporting limit not met.

Analyte & Samples(s) Qualified:

Bis(2-Ethylhexyl)phthalate
17G1258-10[EB17], 17G1258-11[EB18]

Hexachlorobenzene
17G1258-10[EB17], 17G1258-11[EB18]

Pentachlorophenol
17G1258-10[EB17], 17G1258-11[EB18]

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

Pentachloronitrobenzene
17G1258-10[EB17], 17G1258-11[EB18], B183253-BLK1, B183253-BS1, B183253-BSD1

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

SW-846 8270D

The LCS sample recoveries for required RCP 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative: Difficult analytes for water – limits between 10 and 150% depending on the compound (see QC summary for limits): Benzoic Acid, Dimethylphthalate, Bis(2-chloroisopropyl)ether, Hexachlorocyclopentadiene, Pyridine, 4-Nitrophenol, and Phenol.

All reporting limits specified on the chain-of-custody were met, except for Pyridine for the most protective criteria since the laboratory cannot achieve the required RCP calibration criteria at these levels unless otherwise listed in this narrative.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1258

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-22-3 Sampled: 7/27/2017 14:39

Sample ID: 17G1258-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 4:01	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 4:01	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 4:01	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 4:01	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 4:01	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 4:01	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 4:01	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 4:01	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 4:01	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.8	30-150		8/15/17 4:01
Decachlorobiphenyl [2]	92.0	30-150		8/15/17 4:01
Tetrachloro-m-xylene [1]	86.1	30-150		8/15/17 4:01
Tetrachloro-m-xylene [2]	92.9	30-150		8/15/17 4:01

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1258

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-22-3 Sampled: 7/27/2017 14:39

Sample ID: 17G1258-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	79	56	mg/Kg dry	5		CTDEP ETPH	8/3/17	8/6/17 23:48	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	86.5	50-150		8/6/17 23:48

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1258

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-22-3 Sampled: 7/27/2017 14:39

Sample ID: 17G1258-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.7		% Wt	1		SM 2540G	8/4/17	8/5/17 7:01	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1258

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-22-4 Sampled: 7/27/2017 14:40

Sample ID: 17G1258-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 4:18	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 4:18	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 4:18	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 4:18	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 4:18	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 4:18	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 4:18	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 4:18	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 4:18	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.2	30-150		8/15/17 4:18
Decachlorobiphenyl [2]	107	30-150		8/15/17 4:18
Tetrachloro-m-xylene [1]	85.2	30-150		8/15/17 4:18
Tetrachloro-m-xylene [2]	90.3	30-150		8/15/17 4:18

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1258

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-22-4 Sampled: 7/27/2017 14:40

Sample ID: 17G1258-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	77	57	mg/Kg dry	5		CTDEP ETPH	8/3/17	8/7/17 0:05	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	70.3	50-150		8/7/17 0:05

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1258

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-22-4 Sampled: 7/27/2017 14:40

Sample ID: 17G1258-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.3		% Wt	1		SM 2540G	8/4/17	8/5/17 7:01	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1258

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-23-1 Sampled: 7/27/2017 14:41

Sample ID: 17G1258-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 4:35	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 4:35	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 4:35	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 4:35	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 4:35	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 4:35	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 4:35	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 4:35	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 4:35	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.0	30-150		8/15/17 4:35
Decachlorobiphenyl [2]	82.8	30-150		8/15/17 4:35
Tetrachloro-m-xylene [1]	91.7	30-150		8/15/17 4:35
Tetrachloro-m-xylene [2]	98.8	30-150		8/15/17 4:35

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1258

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-23-1 Sampled: 7/27/2017 14:41

Sample ID: 17G1258-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.5		% Wt	1		SM 2540G	8/4/17	8/5/17 7:01	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1258

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-23-2 Sampled: 7/27/2017 14:42

Sample ID: 17G1258-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	1.9	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
Acrylonitrile	ND	0.19	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
Benzene	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
Bromobenzene	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
Bromodichloromethane	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
Bromoform	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
Bromomethane	ND	0.19	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
2-Butanone (MEK)	ND	0.78	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
n-Butylbenzene	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
sec-Butylbenzene	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
tert-Butylbenzene	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
Carbon Disulfide	ND	0.12	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
Carbon Tetrachloride	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
Chlorobenzene	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
Chlorodibromomethane	ND	0.019	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
Chloroethane	ND	0.078	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
Chloroform	ND	0.078	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
Chloromethane	ND	0.078	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
2-Chlorotoluene	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
4-Chlorotoluene	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.19	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
1,2-Dibromoethane (EDB)	ND	0.019	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
Dibromomethane	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
1,2-Dichlorobenzene	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
1,3-Dichlorobenzene	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
1,4-Dichlorobenzene	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
trans-1,4-Dichloro-2-butene	ND	0.078	mg/Kg dry	1	V-05	SW-846 8260C	8/3/17	8/7/17 15:52	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.078	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
1,1-Dichloroethane	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
1,2-Dichloroethane	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
1,1-Dichloroethylene	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
cis-1,2-Dichloroethylene	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
trans-1,2-Dichloroethylene	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
1,2-Dichloropropane	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
1,3-Dichloropropane	ND	0.019	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
2,2-Dichloropropane	ND	0.039	mg/Kg dry	1	L-03, V-05	SW-846 8260C	8/3/17	8/7/17 15:52	LBD
1,1-Dichloropropene	ND	0.078	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
cis-1,3-Dichloropropene	ND	0.019	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
trans-1,3-Dichloropropene	ND	0.019	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
Ethylbenzene	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
Hexachlorobutadiene	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
2-Hexanone (MBK)	ND	0.39	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
Isopropylbenzene (Cumene)	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
p-Isopropyltoluene (p-Cymene)	0.057	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1258

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-23-2 Sampled: 7/27/2017 14:42

Sample ID: 17G1258-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
Methylene Chloride	ND	0.19	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
4-Methyl-2-pentanone (MIBK)	ND	0.39	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
Naphthalene	0.095	0.078	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
n-Propylbenzene	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
Styrene	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
1,1,1,2-Tetrachloroethane	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
1,1,2,2-Tetrachloroethane	ND	0.019	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
Tetrachloroethylene	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
Tetrahydrofuran	ND	0.39	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
Toluene	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
1,2,3-Trichlorobenzene	ND	0.19	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
1,2,4-Trichlorobenzene	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
1,1,1-Trichloroethane	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
1,1,2-Trichloroethane	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
Trichloroethylene	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
Trichlorofluoromethane (Freon 11)	ND	0.078	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
1,2,3-Trichloropropane	ND	0.078	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
1,2,4-Trimethylbenzene	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
1,3,5-Trimethylbenzene	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
Vinyl Chloride	ND	0.078	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
m+p Xylene	ND	0.078	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD
o-Xylene	ND	0.039	mg/Kg dry	1		SW-846 8260C	8/3/17	8/7/17 15:52	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.4	70-130		8/7/17 15:52
Toluene-d8	101	70-130		8/7/17 15:52
4-Bromofluorobenzene	102	70-130		8/7/17 15:52

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1258

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-23-2 Sampled: 7/27/2017 14:42

Sample ID: 17G1258-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 4:53	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 4:53	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 4:53	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 4:53	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 4:53	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 4:53	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 4:53	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 4:53	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 4:53	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.3	30-150		8/15/17 4:53
Decachlorobiphenyl [2]	80.7	30-150		8/15/17 4:53
Tetrachloro-m-xylene [1]	80.5	30-150		8/15/17 4:53
Tetrachloro-m-xylene [2]	87.6	30-150		8/15/17 4:53

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1258

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-23-2 Sampled: 7/27/2017 14:42

Sample ID: 17G1258-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	39	11	mg/Kg dry	1		CTDEP ETPH	8/3/17	8/7/17 0:05	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	72.9	50-150		8/7/17 0:05

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1258

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-23-2 Sampled: 7/27/2017 14:42

Sample ID: 17G1258-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.2		% Wt	1		SM 2540G	8/4/17	8/5/17 7:01	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1258

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-23-3 Sampled: 7/27/2017 14:43

Sample ID: 17G1258-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 5:10	TG
Aroclor-1221 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 5:10	TG
Aroclor-1232 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 5:10	TG
Aroclor-1242 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 5:10	TG
Aroclor-1248 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 5:10	TG
Aroclor-1254 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 5:10	TG
Aroclor-1260 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 5:10	TG
Aroclor-1262 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 5:10	TG
Aroclor-1268 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 5:10	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.1	30-150		8/15/17 5:10
Decachlorobiphenyl [2]	88.3	30-150		8/15/17 5:10
Tetrachloro-m-xylene [1]	70.7	30-150		8/15/17 5:10
Tetrachloro-m-xylene [2]	80.1	30-150		8/15/17 5:10

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1258

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-23-3 Sampled: 7/27/2017 14:43

Sample ID: 17G1258-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1000	350	mg/Kg dry	20		CTDEP ETPH	8/3/17	8/7/17 0:23	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	8/7/17 0:23

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1258

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-23-3 Sampled: 7/27/2017 14:43

Sample ID: 17G1258-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	57.1		% Wt	1		SM 2540G	8/4/17	8/5/17 7:01	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1258

Date Received: 7/27/2017

Field Sample #: Trip Blank Sampled: 7/27/2017 15:20

Sample ID: 17G1258-06

Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
Acrylonitrile	ND	0.0060	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
Benzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
Bromobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
Bromodichloromethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
Bromoform	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
Bromomethane	ND	0.010	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
2-Butanone (MEK)	ND	0.040	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
n-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
Carbon Disulfide	ND	0.0060	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
Chlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
Chloroethane	ND	0.020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
Chloroform	ND	0.0040	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
Chloromethane	ND	0.010	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
Dibromomethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
Ethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
Hexachlorobutadiene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1258

Date Received: 7/27/2017

Field Sample #: Trip Blank Sampled: 7/27/2017 15:20

Sample ID: 17G1258-06

Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
Methylene Chloride	ND	0.020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
Naphthalene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
n-Propylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
Styrene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
Tetrahydrofuran	ND	0.010	mg/Kg wet	1	V-16	SW-846 8260C	8/3/17	8/3/17 7:15	MFF
Toluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
Trichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
Vinyl Chloride	ND	0.010	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
m+p Xylene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF
o-Xylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/3/17	8/3/17 7:15	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		8/3/17 7:15
Toluene-d8	105	70-130		8/3/17 7:15
4-Bromofluorobenzene	102	70-130		8/3/17 7:15

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1258

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-DUP-28 Sampled: 7/27/2017 00:00

Sample ID: 17G1258-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.53	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 9:52	TG
Aroclor-1221 [1]	ND	0.53	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 9:52	TG
Aroclor-1232 [1]	ND	0.53	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 9:52	TG
Aroclor-1242 [1]	ND	0.53	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 9:52	TG
Aroclor-1248 [1]	ND	0.53	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 9:52	TG
Aroclor-1254 [1]	ND	0.53	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 9:52	TG
Aroclor-1260 [1]	3.5	0.53	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 9:52	TG
Aroclor-1262 [1]	ND	0.53	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 9:52	TG
Aroclor-1268 [1]	ND	0.53	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 9:52	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.4	30-150		8/15/17 9:52
Decachlorobiphenyl [2]	75.5	30-150		8/15/17 9:52
Tetrachloro-m-xylene [1]	80.6	30-150		8/15/17 9:52
Tetrachloro-m-xylene [2]	88.1	30-150		8/15/17 9:52

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1258

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-DUP-28 Sampled: 7/27/2017 00:00

Sample ID: 17G1258-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.3		% Wt	1		SM 2540G	8/4/17	8/5/17 7:01	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1258

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-DUP-29 Sampled: 7/27/2017 00:00

Sample ID: 17G1258-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	3500	1100	mg/Kg dry	100		CTDEP ETPH	8/3/17	8/6/17 23:13	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	8/6/17 23:13

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1258

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-DUP-29 Sampled: 7/27/2017 00:00

Sample ID: 17G1258-08

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.6	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:03	QNW
Arsenic	3.3	2.6	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:03	QNW
Barium	31	2.6	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:03	QNW
Beryllium	ND	0.26	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:03	QNW
Cadmium	0.37	0.26	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:03	QNW
Chromium	16	0.52	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:03	QNW
Copper	70	0.52	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:03	QNW
Lead	31	0.78	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:03	QNW
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	8/3/17	8/5/17 13:20	TJK
Nickel	46	0.52	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:03	QNW
Selenium	ND	5.2	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:03	QNW
Silver	ND	0.52	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:03	QNW
Thallium	ND	2.6	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:03	QNW
Vanadium	590	1.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:03	QNW
Zinc	67	1.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:03	QNW

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1258

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-DUP-29 Sampled: 7/27/2017 00:00

Sample ID: 17G1258-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.1		% Wt	1		SM 2540G	8/4/17	8/5/17 7:01	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1258

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-DUP-30 Sampled: 7/27/2017 00:00

Sample ID: 17G1258-09

Sample Matrix: Soil

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	3.6	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
Acrylonitrile	ND	0.36	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
Benzene	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
Bromobenzene	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
Bromodichloromethane	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
Bromoform	ND	0.15	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
Bromomethane	ND	0.36	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
2-Butanone (MEK)	ND	1.5	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
n-Butylbenzene	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
sec-Butylbenzene	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
tert-Butylbenzene	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
Carbon Disulfide	ND	0.22	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
Carbon Tetrachloride	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
Chlorobenzene	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
Chlorodibromomethane	ND	0.15	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
Chloroethane	ND	0.36	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
Chloroform	ND	0.15	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
Chloromethane	ND	0.36	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
2-Chlorotoluene	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
4-Chlorotoluene	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.36	mg/Kg dry	2	V-05	SW-846 8260C	7/31/17	8/4/17 23:59	EEH
1,2-Dibromoethane (EDB)	ND	0.036	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
Dibromomethane	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
1,2-Dichlorobenzene	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
1,3-Dichlorobenzene	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
1,4-Dichlorobenzene	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
trans-1,4-Dichloro-2-butene	ND	0.15	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.15	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
1,1-Dichloroethane	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
1,2-Dichloroethane	ND	0.15	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
1,1-Dichloroethylene	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
cis-1,2-Dichloroethylene	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
trans-1,2-Dichloroethylene	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
1,2-Dichloropropane	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
1,3-Dichloropropane	ND	0.036	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
2,2-Dichloropropane	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
1,1-Dichloropropene	ND	0.15	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
cis-1,3-Dichloropropene	ND	0.036	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
trans-1,3-Dichloropropene	ND	0.036	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
Ethylbenzene	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
Hexachlorobutadiene	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
2-Hexanone (MBK)	ND	0.73	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
Isopropylbenzene (Cumene)	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1258

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-DUP-30 Sampled: 7/27/2017 00:00

Sample ID: 17G1258-09

Sample Matrix: Soil

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.073	mg/Kg dry	2	L-03, V-05	SW-846 8260C	7/31/17	8/4/17 23:59	EEH
Methylene Chloride	ND	0.36	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
4-Methyl-2-pentanone (MIBK)	ND	0.73	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
Naphthalene	3.9	0.15	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
n-Propylbenzene	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
Styrene	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
1,1,1,2-Tetrachloroethane	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
1,1,2,2-Tetrachloroethane	ND	0.036	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
Tetrachloroethylene	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
Tetrahydrofuran	ND	0.73	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
Toluene	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
1,2,3-Trichlorobenzene	ND	0.36	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
1,2,4-Trichlorobenzene	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
1,1,1-Trichloroethane	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
1,1,2-Trichloroethane	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
Trichloroethylene	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
Trichlorofluoromethane (Freon 11)	ND	0.15	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
1,2,3-Trichloropropane	ND	0.15	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
1,2,4-Trimethylbenzene	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
1,3,5-Trimethylbenzene	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
Vinyl Chloride	ND	0.15	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
m+p Xylene	ND	0.15	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH
o-Xylene	ND	0.073	mg/Kg dry	2		SW-846 8260C	7/31/17	8/4/17 23:59	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	88.0	70-130		8/4/17 23:59
Toluene-d8	97.1	70-130		8/4/17 23:59
4-Bromofluorobenzene	97.2	70-130		8/4/17 23:59

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1258

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-DUP-30 Sampled: 7/27/2017 00:00

Sample ID: 17G1258-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	70.6		% Wt	1		SM 2540G	8/4/17	8/16/17 14:53	JMG

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1258

Date Received: 7/27/2017

Field Sample #: EB17 Sampled: 7/27/2017 08:00

Sample ID: 17G1258-10

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	8/3/17	8/7/17 12:26	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	8/3/17	8/7/17 12:26	CJM
Aniline	ND	5.0	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/3/17	8/7/17 12:26	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	8/3/17	8/7/17 12:26	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/3/17	8/7/17 12:26	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	8/3/17	8/7/17 12:26	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	8/3/17	8/7/17 12:26	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/3/17	8/7/17 12:26	CJM
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
Bis(2-Ethylhexyl)phthalate	ND	5.0	µg/L	1	RL-03	SW-846 8270D	8/3/17	8/5/17 13:37	BGL
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
Carbazole	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
4-Chloroaniline	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/3/17	8/7/17 12:26	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/3/17	8/7/17 12:26	CJM
Dibenzofuran	ND	5.0	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
3,3-Dichlorobenzidine	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
2,4-Dimethylphenol	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
2,4-Dinitrophenol	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
2,4-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	8/3/17	8/7/17 12:26	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/3/17	8/7/17 12:26	CJM
Hexachlorobenzene	ND	5.0	µg/L	1	RL-03	SW-846 8270D	8/3/17	8/5/17 13:37	BGL
Hexachlorobutadiene	ND	10	µg/L	1	R-05	SW-846 8270D	8/3/17	8/5/17 13:37	BGL
Hexachlorocyclopentadiene	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
Hexachloroethane	ND	2.0	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/3/17	8/7/17 12:26	CJM
Isophorone	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/3/17	8/7/17 12:26	CJM

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1258

Date Received: 7/27/2017

Field Sample #: EB17 Sampled: 7/27/2017 08:00

Sample ID: 17G1258-10

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
3/4-Methylphenol	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/3/17	8/7/17 12:26	CJM
2-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
3-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
4-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
Nitrobenzene	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
2-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
N-Nitrosodiphenylamine	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
Pentachloronitrobenzene	ND	10	µg/L	1	V-16	SW-846 8270D	8/3/17	8/5/17 13:37	BGL
Pentachlorophenol	ND	5.0	µg/L	1	RL-03	SW-846 8270D	8/3/17	8/5/17 13:37	BGL
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	8/3/17	8/7/17 12:26	CJM
Phenol	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/3/17	8/7/17 12:26	CJM
Pyridine	ND	5.0	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1	R-05	SW-846 8270D	8/3/17	8/5/17 13:37	BGL
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 13:37	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	44.2	15-110		8/5/17 13:37
Phenol-d6	29.3	15-110		8/5/17 13:37
Nitrobenzene-d5	78.9	30-130		8/7/17 12:26
Nitrobenzene-d5	81.0	30-130		8/5/17 13:37
2-Fluorobiphenyl	88.4	30-130		8/5/17 13:37
2-Fluorobiphenyl	76.0	30-130		8/7/17 12:26
2,4,6-Tribromophenol	103	15-110		8/5/17 13:37
p-Terphenyl-d14	100	30-130		8/5/17 13:37
p-Terphenyl-d14	69.3	30-130		8/7/17 12:26

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1258

Date Received: 7/27/2017

Field Sample #: EB17 Sampled: 7/27/2017 08:00

Sample ID: 17G1258-10

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.20	µg/L	1		SW-846 8082A	8/3/17	8/7/17 13:14	KAL
Aroclor-1221 [2]	ND	0.20	µg/L	1		SW-846 8082A	8/3/17	8/7/17 13:14	KAL
Aroclor-1232 [2]	ND	0.20	µg/L	1		SW-846 8082A	8/3/17	8/7/17 13:14	KAL
Aroclor-1242 [2]	ND	0.20	µg/L	1		SW-846 8082A	8/3/17	8/7/17 13:14	KAL
Aroclor-1248 [2]	ND	0.20	µg/L	1		SW-846 8082A	8/3/17	8/7/17 13:14	KAL
Aroclor-1254 [2]	ND	0.20	µg/L	1		SW-846 8082A	8/3/17	8/7/17 13:14	KAL
Aroclor-1260 [2]	ND	0.20	µg/L	1		SW-846 8082A	8/3/17	8/7/17 13:14	KAL
Aroclor-1262 [2]	ND	0.20	µg/L	1		SW-846 8082A	8/3/17	8/7/17 13:14	KAL
Aroclor-1268 [2]	ND	0.20	µg/L	1		SW-846 8082A	8/3/17	8/7/17 13:14	KAL

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	**29.6**	*	30-150	S-12	8/7/17 13:14
Decachlorobiphenyl [2]	32.5		30-150		8/7/17 13:14
Tetrachloro-m-xylene [1]	75.5		30-150		8/7/17 13:14
Tetrachloro-m-xylene [2]	74.5		30-150		8/7/17 13:14

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT
Sample Description:
Work Order: 17G1258

Date Received: 7/27/2017

Field Sample #: EB17
Sampled: 7/27/2017 08:00

Sample ID: 17G1258-10

Sample Matrix: Equipment Blank Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.075	mg/L	1		CTDEP ETPH	8/2/17	8/4/17 17:43	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	88.8	50-150		8/4/17 17:43

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1258

Date Received: 7/27/2017

Field Sample #: EB17 Sampled: 7/27/2017 08:00

Sample ID: 17G1258-10

Sample Matrix: Equipment Blank Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.0	µg/L	5		SW-846 6020A-B	8/1/17	8/2/17 14:37	WSD
Arsenic	ND	2.0	µg/L	5		SW-846 6020A-B	8/1/17	8/2/17 14:37	WSD
Barium	ND	50	µg/L	5		SW-846 6020A-B	8/1/17	8/2/17 14:37	WSD
Beryllium	ND	2.0	µg/L	5		SW-846 6020A-B	8/1/17	8/2/17 14:37	WSD
Cadmium	ND	2.5	µg/L	5		SW-846 6020A-B	8/1/17	8/2/17 14:37	WSD
Chromium	ND	5.0	µg/L	5		SW-846 6020A-B	8/1/17	8/2/17 14:37	WSD
Copper	ND	25	µg/L	5		SW-846 6020A-B	8/1/17	8/2/17 14:37	WSD
Lead	ND	5.0	µg/L	5		SW-846 6020A-B	8/1/17	8/2/17 14:37	WSD
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	8/4/17	8/5/17 11:46	TJK
Nickel	ND	25	µg/L	5		SW-846 6020A-B	8/1/17	8/2/17 14:37	WSD
Selenium	ND	25	µg/L	5		SW-846 6020A-B	8/1/17	8/2/17 14:37	WSD
Silver	ND	2.5	µg/L	5		SW-846 6020A-B	8/1/17	8/2/17 14:37	WSD
Thallium	ND	1.0	µg/L	5		SW-846 6020A-B	8/1/17	8/2/17 14:37	WSD
Vanadium	ND	25	µg/L	5		SW-846 6020A-B	8/1/17	8/2/17 14:37	WSD
Zinc	ND	50	µg/L	5		SW-846 6020A-B	8/1/17	8/2/17 14:37	WSD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1258

Date Received: 7/27/2017

Field Sample #: EB18 Sampled: 7/27/2017 08:00

Sample ID: 17G1258-11

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	8/3/17	8/7/17 12:54	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	8/3/17	8/7/17 12:54	CJM
Aniline	ND	5.0	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/3/17	8/7/17 12:54	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	8/3/17	8/7/17 12:54	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/3/17	8/7/17 12:54	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	8/3/17	8/7/17 12:54	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	8/3/17	8/7/17 12:54	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/3/17	8/7/17 12:54	CJM
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
Bis(2-Ethylhexyl)phthalate	ND	5.0	µg/L	1	RL-03	SW-846 8270D	8/3/17	8/5/17 14:00	BGL
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
Carbazole	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
4-Chloroaniline	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/3/17	8/7/17 12:54	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/3/17	8/7/17 12:54	CJM
Dibenzofuran	ND	5.0	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
3,3-Dichlorobenzidine	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
2,4-Dimethylphenol	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
2,4-Dinitrophenol	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
2,4-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	8/3/17	8/7/17 12:54	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/3/17	8/7/17 12:54	CJM
Hexachlorobenzene	ND	5.0	µg/L	1	RL-03	SW-846 8270D	8/3/17	8/5/17 14:00	BGL
Hexachlorobutadiene	ND	10	µg/L	1	R-05	SW-846 8270D	8/3/17	8/5/17 14:00	BGL
Hexachlorocyclopentadiene	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
Hexachloroethane	ND	2.0	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/3/17	8/7/17 12:54	CJM
Isophorone	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/3/17	8/7/17 12:54	CJM

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1258

Date Received: 7/27/2017

Field Sample #: EB18 Sampled: 7/27/2017 08:00

Sample ID: 17G1258-11

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
3/4-Methylphenol	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/3/17	8/7/17 12:54	CJM
2-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
3-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
4-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
Nitrobenzene	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
2-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
N-Nitrosodiphenylamine	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
Pentachloronitrobenzene	ND	10	µg/L	1	V-16	SW-846 8270D	8/3/17	8/5/17 14:00	BGL
Pentachlorophenol	ND	5.0	µg/L	1	RL-03	SW-846 8270D	8/3/17	8/5/17 14:00	BGL
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	8/3/17	8/7/17 12:54	CJM
Phenol	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/3/17	8/7/17 12:54	CJM
Pyridine	ND	5.0	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1	R-05	SW-846 8270D	8/3/17	8/5/17 14:00	BGL
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/3/17	8/5/17 14:00	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	41.9	15-110		8/5/17 14:00
Phenol-d6	28.8	15-110		8/5/17 14:00
Nitrobenzene-d5	79.4	30-130		8/5/17 14:00
Nitrobenzene-d5	80.2	30-130		8/7/17 12:54
2-Fluorobiphenyl	79.6	30-130		8/7/17 12:54
2-Fluorobiphenyl	84.4	30-130		8/5/17 14:00
2,4,6-Tribromophenol	92.9	15-110		8/5/17 14:00
p-Terphenyl-d14	93.4	30-130		8/5/17 14:00
p-Terphenyl-d14	69.9	30-130		8/7/17 12:54

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1258

Date Received: 7/27/2017

Field Sample #: EB18 Sampled: 7/27/2017 08:00

Sample ID: 17G1258-11

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.19	µg/L	1		SW-846 8082A	8/3/17	8/7/17 13:27	KAL
Aroclor-1221 [1]	ND	0.19	µg/L	1		SW-846 8082A	8/3/17	8/7/17 13:27	KAL
Aroclor-1232 [1]	ND	0.19	µg/L	1		SW-846 8082A	8/3/17	8/7/17 13:27	KAL
Aroclor-1242 [1]	ND	0.19	µg/L	1		SW-846 8082A	8/3/17	8/7/17 13:27	KAL
Aroclor-1248 [1]	ND	0.19	µg/L	1		SW-846 8082A	8/3/17	8/7/17 13:27	KAL
Aroclor-1254 [1]	ND	0.19	µg/L	1		SW-846 8082A	8/3/17	8/7/17 13:27	KAL
Aroclor-1260 [1]	ND	0.19	µg/L	1		SW-846 8082A	8/3/17	8/7/17 13:27	KAL
Aroclor-1262 [1]	ND	0.19	µg/L	1		SW-846 8082A	8/3/17	8/7/17 13:27	KAL
Aroclor-1268 [1]	ND	0.19	µg/L	1		SW-846 8082A	8/3/17	8/7/17 13:27	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	40.0	30-150		8/7/17 13:27
Decachlorobiphenyl [2]	46.3	30-150		8/7/17 13:27
Tetrachloro-m-xylene [1]	83.1	30-150		8/7/17 13:27
Tetrachloro-m-xylene [2]	78.5	30-150		8/7/17 13:27

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1258

Date Received: 7/27/2017

Field Sample #: EB18 Sampled: 7/27/2017 08:00

Sample ID: 17G1258-11

Sample Matrix: Equipment Blank Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.075	mg/L	1		CTDEP ETPH	8/2/17	8/4/17 18:01	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	95.9	50-150		8/4/17 18:01

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1258

Date Received: 7/27/2017

Field Sample #: EB18 Sampled: 7/27/2017 08:00

Sample ID: 17G1258-11

Sample Matrix: Equipment Blank Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.0	µg/L	5		SW-846 6020A-B	8/1/17	8/2/17 14:40	WSD
Arsenic	ND	2.0	µg/L	5		SW-846 6020A-B	8/1/17	8/2/17 14:40	WSD
Barium	ND	50	µg/L	5		SW-846 6020A-B	8/1/17	8/2/17 14:40	WSD
Beryllium	ND	2.0	µg/L	5		SW-846 6020A-B	8/1/17	8/2/17 14:40	WSD
Cadmium	ND	2.5	µg/L	5		SW-846 6020A-B	8/1/17	8/2/17 14:40	WSD
Chromium	ND	5.0	µg/L	5		SW-846 6020A-B	8/1/17	8/2/17 14:40	WSD
Copper	ND	25	µg/L	5		SW-846 6020A-B	8/1/17	8/2/17 14:40	WSD
Lead	ND	5.0	µg/L	5		SW-846 6020A-B	8/1/17	8/2/17 14:40	WSD
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	8/4/17	8/5/17 11:48	TJK
Nickel	ND	25	µg/L	5		SW-846 6020A-B	8/1/17	8/2/17 14:40	WSD
Selenium	ND	25	µg/L	5		SW-846 6020A-B	8/1/17	8/2/17 14:40	WSD
Silver	ND	2.5	µg/L	5		SW-846 6020A-B	8/1/17	8/2/17 14:40	WSD
Thallium	ND	1.0	µg/L	5		SW-846 6020A-B	8/1/17	8/2/17 14:40	WSD
Vanadium	ND	25	µg/L	5		SW-846 6020A-B	8/1/17	8/2/17 14:40	WSD
Zinc	ND	50	µg/L	5		SW-846 6020A-B	8/1/17	8/2/17 14:40	WSD

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1258-01 [WS-AOC7-SO-22-3]	B183276	30.0	1.00	08/03/17
17G1258-02 [WS-AOC7-SO-22-4]	B183276	30.0	1.00	08/03/17
17G1258-04 [WS-AOC7-SO-23-2]	B183276	30.0	1.00	08/03/17
17G1258-05 [WS-AOC7-SO-23-3]	B183276	30.0	1.00	08/03/17
17G1258-08 [WS-AOC7-SO-DUP-29]	B183276	30.0	1.00	08/03/17

Prep Method: SW-846 3510C-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17G1258-10 [EB17]	B183110	1000	1.00	08/02/17
17G1258-11 [EB18]	B183110	1000	1.00	08/02/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G1258-01 [WS-AOC7-SO-22-3]	B183313	08/04/17
17G1258-02 [WS-AOC7-SO-22-4]	B183313	08/04/17
17G1258-03 [WS-AOC7-SO-23-1]	B183313	08/04/17
17G1258-04 [WS-AOC7-SO-23-2]	B183313	08/04/17
17G1258-05 [WS-AOC7-SO-23-3]	B183313	08/04/17
17G1258-07 [WS-AOC13-SO-DUP-28]	B183313	08/04/17
17G1258-08 [WS-AOC7-SO-DUP-29]	B183313	08/04/17
17G1258-09 [WS-AOC7-SO-DUP-30]	B183313	08/04/17

Prep Method: SW-846 3050B-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1258-08 [WS-AOC7-SO-DUP-29]	B183203	1.04	50.0	08/03/17

Prep Method: SW-846 3005A-SW-846 6020A-B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17G1258-10 [EB17]	B183056	50.0	50.0	08/01/17
17G1258-11 [EB18]	B183056	50.0	50.0	08/01/17

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17G1258-10 [EB17]	B183199	6.00	6.00	08/04/17
17G1258-11 [EB18]	B183199	6.00	6.00	08/04/17

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1258-08 [WS-AOC7-SO-DUP-29]	B183214	0.606	50.0	08/03/17

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1258-01 [WS-AOC7-SO-22-3]	B183351	10.0	10.0	08/04/17
17G1258-02 [WS-AOC7-SO-22-4]	B183351	10.0	10.0	08/04/17
17G1258-03 [WS-AOC7-SO-23-1]	B183351	10.0	10.0	08/04/17
17G1258-04 [WS-AOC7-SO-23-2]	B183351	10.0	10.0	08/04/17
17G1258-05 [WS-AOC7-SO-23-3]	B183351	10.0	10.0	08/04/17
17G1258-07 [WS-AOC13-SO-DUP-28]	B183351	10.0	10.0	08/04/17

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17G1258-10 [EB17]	B183192	1020	10.0	08/03/17
17G1258-11 [EB18]	B183192	990	9.50	08/03/17

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
17G1258-09 [WS-AOC7-SO-DUP-30]	B182955	9.73	5.00	0.5	50	07/31/17

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
17G1258-04 [WS-AOC7-SO-23-2]	B183194	8.57	5.93	1	50	08/03/17

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1258-06 [Trip Blank]	B183261	5.00	10.0	08/03/17

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17G1258-10 [EB17]	B183253	1000	1.00	08/03/17
17G1258-11 [EB18]	B183253	1000	1.00	08/03/17

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17G1258-10 [EB17]	B183493	1000	1.00	08/03/17
17G1258-11 [EB18]	B183493	1000	1.00	08/03/17

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182955 - SW-846 5035										
Blank (B182955-BLK1)				Prepared: 07/31/17 Analyzed: 08/04/17						
Acetone	ND	2.5	mg/Kg wet							
Acrylonitrile	ND	0.25	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Bromobenzene	ND	0.050	mg/Kg wet							
Bromodichloromethane	ND	0.050	mg/Kg wet							
Bromoform	ND	0.050	mg/Kg wet							
Bromomethane	ND	0.10	mg/Kg wet							
2-Butanone (MEK)	ND	1.0	mg/Kg wet							
n-Butylbenzene	ND	0.050	mg/Kg wet							
sec-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butylbenzene	ND	0.050	mg/Kg wet							
Carbon Disulfide	ND	0.15	mg/Kg wet							
Carbon Tetrachloride	ND	0.050	mg/Kg wet							
Chlorobenzene	ND	0.050	mg/Kg wet							
Chlorodibromomethane	ND	0.025	mg/Kg wet							
Chloroethane	ND	0.10	mg/Kg wet							
Chloroform	ND	0.10	mg/Kg wet							
Chloromethane	ND	0.10	mg/Kg wet							
2-Chlorotoluene	ND	0.050	mg/Kg wet							
4-Chlorotoluene	ND	0.050	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.25	mg/Kg wet							V-05
1,2-Dibromoethane (EDB)	ND	0.025	mg/Kg wet							
Dibromomethane	ND	0.050	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.050	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.10	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.10	mg/Kg wet							
1,1-Dichloroethane	ND	0.050	mg/Kg wet							
1,2-Dichloroethane	ND	0.050	mg/Kg wet							
1,1-Dichloroethylene	ND	0.050	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
1,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,3-Dichloropropane	ND	0.025	mg/Kg wet							
2,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,1-Dichloropropene	ND	0.10	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
Hexachlorobutadiene	ND	0.050	mg/Kg wet							
2-Hexanone (MBK)	ND	0.50	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							L-03, V-05
Methylene Chloride	ND	0.25	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.50	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
n-Propylbenzene	ND	0.050	mg/Kg wet							
Styrene	ND	0.050	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182955 - SW-846 5035										
Blank (B182955-BLK1)				Prepared: 07/31/17 Analyzed: 08/04/17						
Tetrachloroethylene	ND	0.050	mg/Kg wet							
Tetrahydrofuran	ND	0.50	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.050	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.050	mg/Kg wet							
Trichloroethylene	ND	0.050	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.10	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.050	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg wet							
Vinyl Chloride	ND	0.10	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0228*		mg/Kg wet	0.0250		91.0	70-130			
Surrogate: Toluene-d8	*0.0241*		mg/Kg wet	0.0250		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0238*		mg/Kg wet	0.0250		95.2	70-130			
LCS (B182955-BS1)				Prepared: 07/31/17 Analyzed: 08/04/17						
Acetone	0.0838	0.057	mg/Kg wet	0.113		74.0	70-130			
Acrylonitrile	0.00938	0.0057	mg/Kg wet	0.0113		82.8	70-130			
Benzene	0.0109	0.0011	mg/Kg wet	0.0113		96.2	70-130			
Bromobenzene	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130			
Bromodichloromethane	0.0114	0.0011	mg/Kg wet	0.0113		100	70-130			
Bromoform	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130			
Bromomethane	0.00953	0.0023	mg/Kg wet	0.0113		84.1	70-130			
2-Butanone (MEK)	0.0969	0.023	mg/Kg wet	0.113		85.5	70-130			
n-Butylbenzene	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130			
sec-Butylbenzene	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130			
tert-Butylbenzene	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130			
Carbon Disulfide	0.115	0.0034	mg/Kg wet	0.113		101	70-130			
Carbon Tetrachloride	0.0116	0.0011	mg/Kg wet	0.0113		103	70-130			
Chlorobenzene	0.0126	0.0011	mg/Kg wet	0.0113		111	70-130			
Chlorodibromomethane	0.0121	0.00057	mg/Kg wet	0.0113		107	70-130			
Chloroethane	0.0145	0.0023	mg/Kg wet	0.0113		128	70-130			
Chloroform	0.0111	0.0023	mg/Kg wet	0.0113		98.1	70-130			
Chloromethane	0.0143	0.0023	mg/Kg wet	0.0113		126	70-130			
2-Chlorotoluene	0.00986	0.0011	mg/Kg wet	0.0113		87.0	70-130			
4-Chlorotoluene	0.0114	0.0011	mg/Kg wet	0.0113		101	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.00876	0.0057	mg/Kg wet	0.0113		77.3	70-130			V-05
1,2-Dibromoethane (EDB)	0.0120	0.00057	mg/Kg wet	0.0113		106	70-130			
Dibromomethane	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130			
1,2-Dichlorobenzene	0.0125	0.0011	mg/Kg wet	0.0113		111	70-130			
1,3-Dichlorobenzene	0.0123	0.0011	mg/Kg wet	0.0113		108	70-130			
1,4-Dichlorobenzene	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130			
trans-1,4-Dichloro-2-butene	0.0111	0.0023	mg/Kg wet	0.0113		97.7	70-130			
Dichlorodifluoromethane (Freon 12)	0.0119	0.0023	mg/Kg wet	0.0113		105	70-130			
1,1-Dichloroethane	0.00918	0.0011	mg/Kg wet	0.0113		81.0	70-130			
1,2-Dichloroethane	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
1,1-Dichloroethylene	0.0102	0.0011	mg/Kg wet	0.0113		89.8	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B182955 - SW-846 5035											
LCS (B182955-BS1)				Prepared: 07/31/17 Analyzed: 08/04/17							
cis-1,2-Dichloroethylene	0.0106	0.0011	mg/Kg wet	0.0113		93.7		70-130			
trans-1,2-Dichloroethylene	0.0102	0.0011	mg/Kg wet	0.0113		89.9		70-130			
1,2-Dichloropropane	0.0111	0.0011	mg/Kg wet	0.0113		98.2		70-130			
1,3-Dichloropropane	0.0114	0.00057	mg/Kg wet	0.0113		101		70-130			
2,2-Dichloropropane	0.0113	0.0011	mg/Kg wet	0.0113		99.4		70-130			
1,1-Dichloropropene	0.0116	0.0023	mg/Kg wet	0.0113		102		70-130			
cis-1,3-Dichloropropene	0.0119	0.00057	mg/Kg wet	0.0113		105		70-130			
trans-1,3-Dichloropropene	0.0103	0.00057	mg/Kg wet	0.0113		90.8		70-130			
Ethylbenzene	0.0126	0.0011	mg/Kg wet	0.0113		111		70-130			
Hexachlorobutadiene	0.0129	0.0011	mg/Kg wet	0.0113		114		70-130			
2-Hexanone (MBK)	0.0934	0.011	mg/Kg wet	0.113		82.4		70-130			
Isopropylbenzene (Cumene)	0.0125	0.0011	mg/Kg wet	0.0113		111		70-130			
p-Isopropyltoluene (p-Cymene)	0.0121	0.0011	mg/Kg wet	0.0113		106		70-130			
Methyl tert-Butyl Ether (MTBE)	0.00683	0.0011	mg/Kg wet	0.0113		**60.3**	*	70-130			L-03, V-05
Methylene Chloride	0.00814	0.0057	mg/Kg wet	0.0113		71.8		70-130			
4-Methyl-2-pentanone (MIBK)	0.101	0.011	mg/Kg wet	0.113		89.2		70-130			
Naphthalene	0.0110	0.0023	mg/Kg wet	0.0113		96.8		70-130			
n-Propylbenzene	0.0130	0.0011	mg/Kg wet	0.0113		115		70-130			
Styrene	0.0119	0.0011	mg/Kg wet	0.0113		105		70-130			
1,1,1,2-Tetrachloroethane	0.0129	0.0011	mg/Kg wet	0.0113		114		70-130			
1,1,2,2-Tetrachloroethane	0.0121	0.00057	mg/Kg wet	0.0113		107		70-130			
Tetrachloroethylene	0.0133	0.0011	mg/Kg wet	0.0113		117		70-130			
Tetrahydrofuran	0.00890	0.011	mg/Kg wet	0.0113		78.5		70-130			
Toluene	0.0118	0.0011	mg/Kg wet	0.0113		104		70-130			
1,2,3-Trichlorobenzene	0.0117	0.0057	mg/Kg wet	0.0113		103		70-130			
1,2,4-Trichlorobenzene	0.0121	0.0011	mg/Kg wet	0.0113		107		70-130			
1,1,1-Trichloroethane	0.0111	0.0011	mg/Kg wet	0.0113		98.2		70-130			
1,1,2-Trichloroethane	0.0120	0.0011	mg/Kg wet	0.0113		106		70-130			
Trichloroethylene	0.0123	0.0011	mg/Kg wet	0.0113		109		70-130			
Trichlorofluoromethane (Freon 11)	0.0110	0.0023	mg/Kg wet	0.0113		97.2		70-130			
1,2,3-Trichloropropane	0.0120	0.0023	mg/Kg wet	0.0113		106		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0112	0.0011	mg/Kg wet	0.0113		99.0		70-130			
1,2,4-Trimethylbenzene	0.0119	0.0011	mg/Kg wet	0.0113		105		70-130			
1,3,5-Trimethylbenzene	0.0124	0.0011	mg/Kg wet	0.0113		110		70-130			
Vinyl Chloride	0.0107	0.0023	mg/Kg wet	0.0113		94.4		70-130			
m+p Xylene	0.0251	0.0023	mg/Kg wet	0.0227		111		70-130			
o-Xylene	0.0127	0.0011	mg/Kg wet	0.0113		112		70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0255*		mg/Kg wet	0.0283		90.1		70-130			
Surrogate: Toluene-d8	*0.0276*		mg/Kg wet	0.0283		97.5		70-130			
Surrogate: 4-Bromofluorobenzene	*0.0278*		mg/Kg wet	0.0283		98.1		70-130			
Batch B183194 - SW-846 5035											
Blank (B183194-BLK1)				Prepared: 08/03/17 Analyzed: 08/07/17							
Acetone	ND	2.5	mg/Kg wet								
Acrylonitrile	ND	0.25	mg/Kg wet								
Benzene	ND	0.050	mg/Kg wet								
Bromobenzene	ND	0.050	mg/Kg wet								
Bromodichloromethane	ND	0.050	mg/Kg wet								
Bromoform	ND	0.050	mg/Kg wet								
Bromomethane	ND	0.10	mg/Kg wet								
2-Butanone (MEK)	ND	1.0	mg/Kg wet								

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183194 - SW-846 5035										
Blank (B183194-BLK1)				Prepared: 08/03/17 Analyzed: 08/07/17						
n-Butylbenzene	ND	0.050	mg/Kg wet							
sec-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butylbenzene	ND	0.050	mg/Kg wet							
Carbon Disulfide	ND	0.15	mg/Kg wet							
Carbon Tetrachloride	ND	0.050	mg/Kg wet							
Chlorobenzene	ND	0.050	mg/Kg wet							
Chlorodibromomethane	ND	0.025	mg/Kg wet							
Chloroethane	ND	0.10	mg/Kg wet							
Chloroform	ND	0.10	mg/Kg wet							
Chloromethane	ND	0.10	mg/Kg wet							
2-Chlorotoluene	ND	0.050	mg/Kg wet							
4-Chlorotoluene	ND	0.050	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.25	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.025	mg/Kg wet							
Dibromomethane	ND	0.050	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.050	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.10	mg/Kg wet							V-05
Dichlorodifluoromethane (Freon 12)	ND	0.10	mg/Kg wet							
1,1-Dichloroethane	ND	0.050	mg/Kg wet							
1,2-Dichloroethane	ND	0.050	mg/Kg wet							
1,1-Dichloroethylene	ND	0.050	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
1,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,3-Dichloropropane	ND	0.025	mg/Kg wet							
2,2-Dichloropropane	ND	0.050	mg/Kg wet							L-03, V-05
1,1-Dichloropropene	ND	0.10	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
Hexachlorobutadiene	ND	0.050	mg/Kg wet							
2-Hexanone (MBK)	ND	0.50	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
Methylene Chloride	ND	0.25	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.50	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
n-Propylbenzene	ND	0.050	mg/Kg wet							
Styrene	ND	0.050	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg wet							
Tetrachloroethylene	ND	0.050	mg/Kg wet							
Tetrahydrofuran	ND	0.50	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.050	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.050	mg/Kg wet							
Trichloroethylene	ND	0.050	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B183194 - SW-846 5035											
Blank (B183194-BLK1)				Prepared: 08/03/17 Analyzed: 08/07/17							
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg wet								
1,2,3-Trichloropropane	ND	0.10	mg/Kg wet								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.050	mg/Kg wet								
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet								
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg wet								
Vinyl Chloride	ND	0.10	mg/Kg wet								
m+p Xylene	ND	0.10	mg/Kg wet								
o-Xylene	ND	0.050	mg/Kg wet								
Surrogate: 1,2-Dichloroethane-d4	*0.0245*		mg/Kg wet	0.0250		98.0		70-130			
Surrogate: Toluene-d8	*0.0252*		mg/Kg wet	0.0250		101		70-130			
Surrogate: 4-Bromofluorobenzene	*0.0255*		mg/Kg wet	0.0250		102		70-130			
LCS (B183194-BS1)				Prepared: 08/03/17 Analyzed: 08/07/17							
Acetone	0.112	0.057	mg/Kg wet	0.113		98.5		70-130			
Acrylonitrile	0.0101	0.0057	mg/Kg wet	0.0113		89.5		70-130			
Benzene	0.0107	0.0011	mg/Kg wet	0.0113		94.8		70-130			
Bromobenzene	0.0105	0.0011	mg/Kg wet	0.0113		92.9		70-130			
Bromodichloromethane	0.0102	0.0011	mg/Kg wet	0.0113		89.7		70-130			
Bromoform	0.0108	0.0011	mg/Kg wet	0.0113		95.2		70-130			
Bromomethane	0.0187	0.0023	mg/Kg wet	0.0113		**165**	*	70-130			L-01, V-20
2-Butanone (MEK)	0.115	0.023	mg/Kg wet	0.113		101		70-130			
n-Butylbenzene	0.00884	0.0011	mg/Kg wet	0.0113		78.0		70-130			
sec-Butylbenzene	0.00953	0.0011	mg/Kg wet	0.0113		84.1		70-130			
tert-Butylbenzene	0.00981	0.0011	mg/Kg wet	0.0113		86.6		70-130			
Carbon Disulfide	0.112	0.0034	mg/Kg wet	0.113		98.6		70-130			
Carbon Tetrachloride	0.0112	0.0011	mg/Kg wet	0.0113		98.8		70-130			
Chlorobenzene	0.0110	0.0011	mg/Kg wet	0.0113		97.1		70-130			
Chlorodibromomethane	0.0109	0.00057	mg/Kg wet	0.0113		96.4		70-130			
Chloroethane	0.0109	0.0023	mg/Kg wet	0.0113		96.3		70-130			
Chloroform	0.0106	0.0023	mg/Kg wet	0.0113		93.9		70-130			
Chloromethane	0.0104	0.0023	mg/Kg wet	0.0113		91.8		70-130			
2-Chlorotoluene	0.0103	0.0011	mg/Kg wet	0.0113		91.3		70-130			
4-Chlorotoluene	0.0103	0.0011	mg/Kg wet	0.0113		90.9		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.00985	0.0057	mg/Kg wet	0.0113		86.9		70-130			
1,2-Dibromoethane (EDB)	0.0114	0.00057	mg/Kg wet	0.0113		100		70-130			
Dibromomethane	0.0112	0.0011	mg/Kg wet	0.0113		99.2		70-130			
1,2-Dichlorobenzene	0.0102	0.0011	mg/Kg wet	0.0113		90.3		70-130			
1,3-Dichlorobenzene	0.0101	0.0011	mg/Kg wet	0.0113		89.4		70-130			
1,4-Dichlorobenzene	0.0101	0.0011	mg/Kg wet	0.0113		89.2		70-130			
trans-1,4-Dichloro-2-butene	0.00831	0.0023	mg/Kg wet	0.0113		73.3		70-130			V-05
Dichlorodifluoromethane (Freon 12)	0.00950	0.0023	mg/Kg wet	0.0113		83.8		70-130			
1,1-Dichloroethane	0.0107	0.0011	mg/Kg wet	0.0113		94.8		70-130			
1,2-Dichloroethane	0.0112	0.0011	mg/Kg wet	0.0113		98.7		70-130			
1,1-Dichloroethylene	0.0108	0.0011	mg/Kg wet	0.0113		95.3		70-130			
cis-1,2-Dichloroethylene	0.00997	0.0011	mg/Kg wet	0.0113		88.0		70-130			
trans-1,2-Dichloroethylene	0.0108	0.0011	mg/Kg wet	0.0113		95.2		70-130			
1,2-Dichloropropane	0.0107	0.0011	mg/Kg wet	0.0113		94.5		70-130			
1,3-Dichloropropane	0.0113	0.00057	mg/Kg wet	0.0113		100		70-130			
2,2-Dichloropropane	0.00575	0.0011	mg/Kg wet	0.0113		**50.7**	*	70-130			L-03, V-05
1,1-Dichloropropene	0.0111	0.0023	mg/Kg wet	0.0113		98.2		70-130			
cis-1,3-Dichloropropene	0.00951	0.00057	mg/Kg wet	0.0113		83.9		70-130			
trans-1,3-Dichloropropene	0.00960	0.00057	mg/Kg wet	0.0113		84.7		70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183194 - SW-846 5035										
LCS (B183194-BS1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Ethylbenzene	0.0106	0.0011	mg/Kg wet	0.0113		93.7	70-130			
Hexachlorobutadiene	0.0112	0.0011	mg/Kg wet	0.0113		98.7	70-130			
2-Hexanone (MBK)	0.116	0.011	mg/Kg wet	0.113		102	70-130			
Isopropylbenzene (Cumene)	0.0107	0.0011	mg/Kg wet	0.0113		94.3	70-130			
p-Isopropyltoluene (p-Cymene)	0.00972	0.0011	mg/Kg wet	0.0113		85.8	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0111	0.0011	mg/Kg wet	0.0113		97.7	70-130			
Methylene Chloride	0.0105	0.0057	mg/Kg wet	0.0113		92.3	70-130			
4-Methyl-2-pentanone (MIBK)	0.116	0.011	mg/Kg wet	0.113		102	70-130			
Naphthalene	0.00970	0.0023	mg/Kg wet	0.0113		85.6	70-130			
n-Propylbenzene	0.0103	0.0011	mg/Kg wet	0.0113		91.2	70-130			
Styrene	0.0107	0.0011	mg/Kg wet	0.0113		94.8	70-130			
1,1,1,2-Tetrachloroethane	0.0107	0.0011	mg/Kg wet	0.0113		94.2	70-130			
1,1,2,2-Tetrachloroethane	0.0104	0.00057	mg/Kg wet	0.0113		92.0	70-130			
Tetrachloroethylene	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130			
Tetrahydrofuran	0.0107	0.011	mg/Kg wet	0.0113		94.6	70-130			
Toluene	0.0108	0.0011	mg/Kg wet	0.0113		95.6	70-130			
1,2,3-Trichlorobenzene	0.0109	0.0057	mg/Kg wet	0.0113		96.5	70-130			
1,2,4-Trichlorobenzene	0.0109	0.0011	mg/Kg wet	0.0113		96.3	70-130			
1,1,1-Trichloroethane	0.0107	0.0011	mg/Kg wet	0.0113		94.6	70-130			
1,1,2-Trichloroethane	0.0112	0.0011	mg/Kg wet	0.0113		98.9	70-130			
Trichloroethylene	0.0109	0.0011	mg/Kg wet	0.0113		95.8	70-130			
Trichlorofluoromethane (Freon 11)	0.0113	0.0023	mg/Kg wet	0.0113		100	70-130			
1,2,3-Trichloropropane	0.0115	0.0023	mg/Kg wet	0.0113		102	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0110	0.0011	mg/Kg wet	0.0113		96.8	70-130			
1,2,4-Trimethylbenzene	0.00928	0.0011	mg/Kg wet	0.0113		81.9	70-130			
1,3,5-Trimethylbenzene	0.0102	0.0011	mg/Kg wet	0.0113		90.3	70-130			
Vinyl Chloride	0.0102	0.0023	mg/Kg wet	0.0113		89.8	70-130			
m+p Xylene	0.0212	0.0023	mg/Kg wet	0.0227		93.3	70-130			
o-Xylene	0.0106	0.0011	mg/Kg wet	0.0113		93.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0269*		mg/Kg wet	0.0250		108	70-130			
Surrogate: Toluene-d8	*0.0282*		mg/Kg wet	0.0250		113	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0291*		mg/Kg wet	0.0250		117	70-130			
Batch B183261 - SW-846 5035										
Blank (B183261-BLK1)				Prepared & Analyzed: 08/03/17						
Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183261 - SW-846 5035										
Blank (B183261-BLK1)				Prepared & Analyzed: 08/03/17						
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							V-16
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183261 - SW-846 5035										
Blank (B183261-BLK1)				Prepared & Analyzed: 08/03/17						
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0504*		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	*0.0527*		mg/Kg wet	0.0500		105	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0516*		mg/Kg wet	0.0500		103	70-130			
LCS (B183261-BS1)				Prepared & Analyzed: 08/03/17						
Acetone	0.185	0.10	mg/Kg wet	0.200		92.6	70-130			
Acrylonitrile	0.0258	0.0060	mg/Kg wet	0.0200		129	70-130			
Benzene	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130			
Bromobenzene	0.0168	0.0020	mg/Kg wet	0.0200		83.9	70-130			
Bromodichloromethane	0.0175	0.0020	mg/Kg wet	0.0200		87.4	70-130			
Bromoform	0.0161	0.0020	mg/Kg wet	0.0200		80.5	70-130			
Bromomethane	0.0193	0.010	mg/Kg wet	0.0200		96.5	70-130			
2-Butanone (MEK)	0.239	0.040	mg/Kg wet	0.200		120	70-130			
n-Butylbenzene	0.0186	0.0020	mg/Kg wet	0.0200		93.1	70-130			
sec-Butylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
tert-Butylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
Carbon Disulfide	0.202	0.0060	mg/Kg wet	0.200		101	70-130			
Carbon Tetrachloride	0.0190	0.0020	mg/Kg wet	0.0200		95.2	70-130			
Chlorobenzene	0.0180	0.0020	mg/Kg wet	0.0200		90.0	70-130			
Chlorodibromomethane	0.0188	0.0010	mg/Kg wet	0.0200		93.9	70-130			
Chloroethane	0.0169	0.020	mg/Kg wet	0.0200		84.7	70-130			
Chloroform	0.0187	0.0040	mg/Kg wet	0.0200		93.4	70-130			
Chloromethane	0.0214	0.010	mg/Kg wet	0.0200		107	70-130			
2-Chlorotoluene	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130			
4-Chlorotoluene	0.0177	0.0020	mg/Kg wet	0.0200		88.4	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0188	0.0020	mg/Kg wet	0.0200		93.8	70-130			
1,2-Dibromoethane (EDB)	0.0190	0.0010	mg/Kg wet	0.0200		94.9	70-130			
Dibromomethane	0.0184	0.0020	mg/Kg wet	0.0200		92.2	70-130			
1,2-Dichlorobenzene	0.0184	0.0020	mg/Kg wet	0.0200		92.2	70-130			
1,3-Dichlorobenzene	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130			
1,4-Dichlorobenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.4	70-130			
trans-1,4-Dichloro-2-butene	0.0196	0.0040	mg/Kg wet	0.0200		97.9	70-130			
Dichlorodifluoromethane (Freon 12)	0.0222	0.020	mg/Kg wet	0.0200		111	70-130			
1,1-Dichloroethane	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
1,2-Dichloroethane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
1,1-Dichloroethylene	0.0204	0.0040	mg/Kg wet	0.0200		102	70-130			
cis-1,2-Dichloroethylene	0.0200	0.0020	mg/Kg wet	0.0200		99.9	70-130			
trans-1,2-Dichloroethylene	0.0253	0.0020	mg/Kg wet	0.0200		126	70-130			
1,2-Dichloropropane	0.0223	0.0020	mg/Kg wet	0.0200		111	70-130			
1,3-Dichloropropane	0.0201	0.0010	mg/Kg wet	0.0200		101	70-130			
2,2-Dichloropropane	0.0184	0.0020	mg/Kg wet	0.0200		92.2	70-130			
1,1-Dichloropropene	0.0185	0.0020	mg/Kg wet	0.0200		92.4	70-130			
cis-1,3-Dichloropropene	0.0190	0.0010	mg/Kg wet	0.0200		94.9	70-130			
trans-1,3-Dichloropropene	0.0179	0.0010	mg/Kg wet	0.0200		89.4	70-130			
Ethylbenzene	0.0186	0.0020	mg/Kg wet	0.0200		92.9	70-130			
Hexachlorobutadiene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130			
2-Hexanone (MBK)	0.229	0.020	mg/Kg wet	0.200		114	70-130			
Isopropylbenzene (Cumene)	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130			
p-Isopropyltoluene (p-Cymene)	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0186	0.0040	mg/Kg wet	0.0200		93.1	70-130			
Methylene Chloride	0.0233	0.020	mg/Kg wet	0.0200		117	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183261 - SW-846 5035										
LCS (B183261-BS1)				Prepared & Analyzed: 08/03/17						
4-Methyl-2-pentanone (MIBK)	0.233	0.020	mg/Kg wet	0.200		116	70-130			
Naphthalene	0.0162	0.0040	mg/Kg wet	0.0200		80.9	70-130			
n-Propylbenzene	0.0184	0.0020	mg/Kg wet	0.0200		92.1	70-130			
Styrene	0.0178	0.0020	mg/Kg wet	0.0200		89.0	70-130			
1,1,1,2-Tetrachloroethane	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130			
1,1,2,2-Tetrachloroethane	0.0169	0.0010	mg/Kg wet	0.0200		84.5	70-130			
Tetrachloroethylene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130			
Tetrahydrofuran	0.0183	0.010	mg/Kg wet	0.0200		91.6	70-130			V-16
Toluene	0.0199	0.0020	mg/Kg wet	0.0200		99.5	70-130			
1,2,3-Trichlorobenzene	0.0168	0.0020	mg/Kg wet	0.0200		83.8	70-130			
1,2,4-Trichlorobenzene	0.0182	0.0020	mg/Kg wet	0.0200		90.8	70-130			
1,1,1-Trichloroethane	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
1,1,2-Trichloroethane	0.0187	0.0020	mg/Kg wet	0.0200		93.4	70-130			
Trichloroethylene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130			
Trichlorofluoromethane (Freon 11)	0.0231	0.010	mg/Kg wet	0.0200		116	70-130			
1,2,3-Trichloropropane	0.0196	0.0020	mg/Kg wet	0.0200		98.0	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0224	0.010	mg/Kg wet	0.0200		112	70-130			
1,2,4-Trimethylbenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130			
1,3,5-Trimethylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
Vinyl Chloride	0.0188	0.010	mg/Kg wet	0.0200		93.8	70-130			
m+p Xylene	0.0376	0.0040	mg/Kg wet	0.0400		94.0	70-130			
o-Xylene	0.0183	0.0020	mg/Kg wet	0.0200		91.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0506*		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	*0.0531*		mg/Kg wet	0.0500		106	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0520*		mg/Kg wet	0.0500		104	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183253 - SW-846 3510C										
Blank (B183253-BLK1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Aniline	ND	5.0	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	5.0	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							
Hexachlorobenzene	ND	5.0	µg/L							
Hexachlorobutadiene	ND	10	µg/L							R-05
Hexachlorocyclopentadiene	ND	10	µg/L							
Hexachloroethane	ND	2.0	µg/L							
Isophorone	ND	10	µg/L							
2-Methylphenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
2-Nitroaniline	ND	10	µg/L							
3-Nitroaniline	ND	10	µg/L							
4-Nitroaniline	ND	10	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
4-Nitrophenol	ND	10	µg/L							
N-Nitrosodiphenylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							
Pentachloronitrobenzene	ND	10	µg/L							V-16
Pentachlorophenol	ND	5.0	µg/L							
Phenol	ND	10	µg/L							
Pyridine	ND	5.0	µg/L							
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L							
1,2,4-Trichlorobenzene	ND	5.0	µg/L							R-05
2,4,5-Trichlorophenol	ND	10	µg/L							
2,4,6-Trichlorophenol	ND	10	µg/L							
Surrogate: 2-Fluorophenol	*93.6*		µg/L	200		46.8	15-110			
Surrogate: Phenol-d6	*62.2*		µg/L	200		31.1	15-110			
Surrogate: Nitrobenzene-d5	*84.3*		µg/L	100		84.3	30-130			
Surrogate: 2-Fluorobiphenyl	*82.5*		µg/L	100		82.5	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B183253 - SW-846 3510C											
Blank (B183253-BLK1)				Prepared: 08/03/17 Analyzed: 08/04/17							
Surrogate: 2,4,6-Tribromophenol	*197*		µg/L	200		98.4	15-110				
Surrogate: p-Terphenyl-d14	*96.1*		µg/L	100		96.1	30-130				
LCS (B183253-BS1)				Prepared: 08/03/17 Analyzed: 08/04/17							
Aniline	32.1	5.0	µg/L	50.0		64.2	40-140				†
Bis(2-chloroethoxy)methane	36.1	10	µg/L	50.0		72.1	40-140				
Bis(2-chloroethyl)ether	32.2	10	µg/L	50.0		64.4	40-140				
Bis(2-chloroisopropyl)ether	36.3	10	µg/L	50.0		72.6	40-140				
Bis(2-Ethylhexyl)phthalate	38.5	0.0	µg/L	50.0		76.9	40-140				
4-Bromophenylphenylether	37.0	10	µg/L	50.0		73.9	40-140				
Butylbenzylphthalate	38.2	10	µg/L	50.0		76.4	40-140				
Carbazole	32.8	10	µg/L	50.0		65.6	40-140				
4-Chloroaniline	32.6	10	µg/L	50.0		65.2	40-140				†
4-Chloro-3-methylphenol	37.7	10	µg/L	50.0		75.3	30-130				
2-Chloronaphthalene	29.0	10	µg/L	50.0		57.9	40-140				
2-Chlorophenol	31.0	10	µg/L	50.0		62.1	30-130				
4-Chlorophenylphenylether	36.1	10	µg/L	50.0		72.1	40-140				
Dibenzofuran	35.6	5.0	µg/L	50.0		71.3	40-140				
Di-n-butylphthalate	33.6	10	µg/L	50.0		67.2	40-140				
3,3-Dichlorobenzidine	38.8	10	µg/L	50.0		77.6	40-140				†
2,4-Dichlorophenol	34.9	10	µg/L	50.0		69.8	30-130				
Diethylphthalate	36.9	10	µg/L	50.0		73.8	40-140				
2,4-Dimethylphenol	32.8	10	µg/L	50.0		65.6	30-130				
Dimethylphthalate	35.4	10	µg/L	50.0		70.9	40-140				
4,6-Dinitro-2-methylphenol	33.6	10	µg/L	50.0		67.2	30-130				
2,4-Dinitrophenol	32.8	10	µg/L	50.0		65.5	30-130				
2,4-Dinitrotoluene	32.7	10	µg/L	50.0		65.4	40-140				
2,6-Dinitrotoluene	34.4	10	µg/L	50.0		68.9	40-140				
Di-n-octylphthalate	38.1	10	µg/L	50.0		76.2	40-140				
Hexachlorobenzene	35.7	10	µg/L	50.0		71.3	40-140				
Hexachlorobutadiene	36.2	10	µg/L	50.0		72.5	40-140			R-05	
Hexachlorocyclopentadiene	26.1	10	µg/L	50.0		52.3	30-140				
Hexachloroethane	32.4	10	µg/L	50.0		64.9	40-140				
Isophorone	37.3	10	µg/L	50.0		74.6	40-140				
2-Methylphenol	28.0	10	µg/L	50.0		56.0	30-130				
3/4-Methylphenol	27.7	10	µg/L	50.0		55.4	30-130				
2-Nitroaniline	36.8	10	µg/L	50.0		73.7	40-140				
3-Nitroaniline	32.3	10	µg/L	50.0		64.6	40-140				†
4-Nitroaniline	33.5	10	µg/L	50.0		67.0	40-140				
Nitrobenzene	35.1	10	µg/L	50.0		70.2	40-140				
2-Nitrophenol	33.6	10	µg/L	50.0		67.3	30-130				
4-Nitrophenol	17.2	10	µg/L	50.0		34.3	10-130				
N-Nitrosodiphenylamine	45.5	10	µg/L	50.0		91.0	40-140				
N-Nitrosodi-n-propylamine	36.3	10	µg/L	50.0		72.7	40-140				
Pentachloronitrobenzene	38.0	10	µg/L	50.0		76.0	40-140			V-16	
Pentachlorophenol	29.1	10	µg/L	50.0		58.2	30-130				
Phenol	15.6	10	µg/L	50.0		31.2	20-130				
Pyridine	10.2	5.0	µg/L	50.0		20.4	10-140				†
1,2,4,5-Tetrachlorobenzene	36.5	10	µg/L	50.0		73.0	40-140				
1,2,4-Trichlorobenzene	31.3	5.0	µg/L	50.0		62.5	40-140			R-05	
2,4,5-Trichlorophenol	34.4	10	µg/L	50.0		68.9	30-130				
2,4,6-Trichlorophenol	35.7	10	µg/L	50.0		71.4	30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes	
Batch B183253 - SW-846 3510C												
LCS (B183253-BS1)				Prepared: 08/03/17 Analyzed: 08/04/17								
Surrogate: 2-Fluorophenol	*86.5*		µg/L	200		43.2	15-110					
Surrogate: Phenol-d6	*62.1*		µg/L	200		31.0	15-110					
Surrogate: Nitrobenzene-d5	*80.5*		µg/L	100		80.5	30-130					
Surrogate: 2-Fluorobiphenyl	*80.5*		µg/L	100		80.5	30-130					
Surrogate: 2,4,6-Tribromophenol	*182*		µg/L	200		90.9	15-110					
Surrogate: p-Terphenyl-d14	*80.7*		µg/L	100		80.7	30-130					
LCS Dup (B183253-BSD1)				Prepared: 08/03/17 Analyzed: 08/04/17								
Aniline	32.2	5.0	µg/L	50.0		64.5	40-140	0.435		50		† ‡
Bis(2-chloroethoxy)methane	34.1	10	µg/L	50.0		68.2	40-140	5.56		20		
Bis(2-chloroethyl)ether	31.3	10	µg/L	50.0		62.6	40-140	2.87		20		
Bis(2-chloroisopropyl)ether	35.2	10	µg/L	50.0		70.4	40-140	3.08		20		
Bis(2-Ethylhexyl)phthalate	34.6	10	µg/L	50.0		69.1	40-140	10.7		20		
4-Bromophenylphenylether	33.1	10	µg/L	50.0		66.3	40-140	10.9		20		
Butylbenzylphthalate	35.6	10	µg/L	50.0		71.2	40-140	7.02		20		
Carbazole	29.6	10	µg/L	50.0		59.3	40-140	10.1		20		
4-Chloroaniline	30.2	10	µg/L	50.0		60.5	40-140	7.54		20		†
4-Chloro-3-methylphenol	36.3	10	µg/L	50.0		72.5	30-130	3.81		20		
2-Chloronaphthalene	25.2	10	µg/L	50.0		50.3	40-140	14.0		20		
2-Chlorophenol	30.8	10	µg/L	50.0		61.6	30-130	0.809		20		
4-Chlorophenylphenylether	32.9	10	µg/L	50.0		65.8	40-140	9.16		20		
Dibenzofuran	32.2	5.0	µg/L	50.0		64.5	40-140	10.1		20		
Di-n-butylphthalate	30.3	10	µg/L	50.0		60.6	40-140	10.3		20		
3,3-Dichlorobenzidine	35.6	10	µg/L	50.0		71.1	40-140	8.69		20		† ‡
2,4-Dichlorophenol	33.1	10	µg/L	50.0		66.2	30-130	5.26		20		
Diethylphthalate	34.4	10	µg/L	50.0		68.8	40-140	7.04		20		
2,4-Dimethylphenol	32.5	10	µg/L	50.0		65.1	30-130	0.857		20		
Dimethylphthalate	32.1	10	µg/L	50.0		64.2	40-140	9.89		50		
4,6-Dinitro-2-methylphenol	29.7	10	µg/L	50.0		59.4	30-130	12.2		50		
2,4-Dinitrophenol	31.3	10	µg/L	50.0		62.6	30-130	4.50		50		
2,4-Dinitrotoluene	30.3	10	µg/L	50.0		60.6	40-140	7.68		20		
2,6-Dinitrotoluene	32.1	10	µg/L	50.0		64.3	40-140	6.88		20		
Di-n-octylphthalate	33.8	10	µg/L	50.0		67.6	40-140	12.0		20		
Hexachlorobenzene	31.6	10	µg/L	50.0		63.2	40-140	12.0		20		
Hexachlorobutadiene	26.8	10	µg/L	50.0		53.5	40-140	**30.1**	*	20	R-05	
Hexachlorocyclopentadiene	22.3	10	µg/L	50.0		44.7	30-140	15.7		50		
Hexachloroethane	24.1	10	µg/L	50.0		48.2	40-140	29.5		50		
Isophorone	35.3	10	µg/L	50.0		70.5	40-140	5.62		20		
2-Methylphenol	26.9	10	µg/L	50.0		53.8	30-130	4.08		20		
3/4-Methylphenol	27.5	10	µg/L	50.0		55.0	30-130	0.580		20		
2-Nitroaniline	34.2	10	µg/L	50.0		68.5	40-140	7.26		20		
3-Nitroaniline	30.3	10	µg/L	50.0		60.6	40-140	6.45		20		†
4-Nitroaniline	31.2	10	µg/L	50.0		62.3	40-140	7.27		20		
Nitrobenzene	33.4	10	µg/L	50.0		66.8	40-140	5.05		20		
2-Nitrophenol	31.7	10	µg/L	50.0		63.5	30-130	5.78		20		
4-Nitrophenol	16.0	10	µg/L	50.0		32.0	10-130	7.00		50		‡
N-Nitrosodiphenylamine	40.4	10	µg/L	50.0		80.9	40-140	11.8		20		
N-Nitrosodi-n-propylamine	35.2	10	µg/L	50.0		70.5	40-140	3.02		20		
Pentachloronitrobenzene	33.4	10	µg/L	50.0		66.8	40-140	13.0		20	V-16	
Pentachlorophenol	23.9	10	µg/L	50.0		47.8	30-130	19.7		50		
Phenol	15.9	10	µg/L	50.0		31.7	20-130	1.59		20		
Pyridine	12.8	5.0	µg/L	50.0		25.6	10-140	22.6		50		†

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B183253 - SW-846 3510C											
LCS Dup (B183253-BSD1)				Prepared: 08/03/17 Analyzed: 08/04/17							
1,2,4,5-Tetrachlorobenzene	31.0	10	µg/L	50.0		62.1	40-140	16.2		20	
1,2,4-Trichlorobenzene	25.1	5.0	µg/L	50.0		50.3	40-140	**21.7**	*	20	R-05
2,4,5-Trichlorophenol	31.9	10	µg/L	50.0		63.9	30-130	7.53		20	
2,4,6-Trichlorophenol	31.6	10	µg/L	50.0		63.1	30-130	12.4		50	
Surrogate: 2-Fluorophenol	*88.0*		µg/L	200		44.0	15-110				
Surrogate: Phenol-d6	*60.4*		µg/L	200		30.2	15-110				
Surrogate: Nitrobenzene-d5	*75.2*		µg/L	100		75.2	30-130				
Surrogate: 2-Fluorobiphenyl	*67.5*		µg/L	100		67.5	30-130				
Surrogate: 2,4,6-Tribromophenol	*160*		µg/L	200		79.9	15-110				
Surrogate: p-Terphenyl-d14	*73.3*		µg/L	100		73.3	30-130				
Batch B183493 - SW-846 3510C											
Blank (B183493-BLK1)				Prepared: 08/03/17 Analyzed: 08/04/17							
Acenaphthene (SIM)	ND	0.30	µg/L								
Acenaphthylene (SIM)	ND	0.30	µg/L								
Anthracene (SIM)	ND	0.20	µg/L								
Benzo(a)anthracene (SIM)	ND	0.050	µg/L								
Benzo(a)pyrene (SIM)	ND	0.10	µg/L								
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L								
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L								
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L								
Chrysene (SIM)	ND	0.20	µg/L								
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L								
Fluoranthene (SIM)	ND	0.50	µg/L								
Fluorene (SIM)	ND	1.0	µg/L								
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L								
2-Methylnaphthalene (SIM)	ND	1.0	µg/L								
Naphthalene (SIM)	ND	1.0	µg/L								
Phenanthrene (SIM)	ND	0.050	µg/L								
Pyrene (SIM)	ND	1.0	µg/L								
Surrogate: Nitrobenzene-d5	*79.4*		µg/L	100		79.4	30-130				
Surrogate: 2-Fluorobiphenyl	*76.8*		µg/L	100		76.8	30-130				
Surrogate: p-Terphenyl-d14	*69.3*		µg/L	100		69.3	30-130				
LCS (B183493-BS1)				Prepared: 08/03/17 Analyzed: 08/04/17							
Acenaphthene (SIM)	42.6	7.5	µg/L	50.0		85.1	40-140				
Acenaphthylene (SIM)	41.8	7.5	µg/L	50.0		83.5	40-140				
Anthracene (SIM)	44.5	5.0	µg/L	50.0		89.0	40-140				
Benzo(a)anthracene (SIM)	43.2	1.2	µg/L	50.0		86.4	40-140				
Benzo(a)pyrene (SIM)	45.6	2.5	µg/L	50.0		91.3	40-140				
Benzo(b)fluoranthene (SIM)	46.4	1.2	µg/L	50.0		92.7	40-140				
Benzo(g,h,i)perylene (SIM)	43.6	12	µg/L	50.0		87.2	40-140				
Benzo(k)fluoranthene (SIM)	45.9	5.0	µg/L	50.0		91.8	40-140				
Chrysene (SIM)	43.3	5.0	µg/L	50.0		86.6	40-140				
Dibenz(a,h)anthracene (SIM)	44.4	5.0	µg/L	50.0		88.7	40-140				
Fluoranthene (SIM)	43.6	12	µg/L	50.0		87.2	40-140				
Fluorene (SIM)	43.4	25	µg/L	50.0		86.9	40-140				
Indeno(1,2,3-cd)pyrene (SIM)	43.6	5.0	µg/L	50.0		87.2	40-140				
2-Methylnaphthalene (SIM)	40.9	25	µg/L	50.0		81.8	40-140				
Naphthalene (SIM)	39.9	25	µg/L	50.0		79.8	40-140				
Phenanthrene (SIM)	43.8	1.2	µg/L	50.0		87.6	40-140				
Pyrene (SIM)	43.8	25	µg/L	50.0		87.6	40-140				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183493 - SW-846 3510C										
LCS (B183493-BS1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Surrogate: Nitrobenzene-d5	*86.3*		µg/L	100		86.3	30-130			
Surrogate: 2-Fluorobiphenyl	*95.8*		µg/L	100		95.8	30-130			
Surrogate: p-Terphenyl-d14	*76.0*		µg/L	100		76.0	30-130			
LCS Dup (B183493-BSD1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene (SIM)	40.6	7.5	µg/L	50.0		81.2	40-140	4.69	20	
Acenaphthylene (SIM)	39.7	7.5	µg/L	50.0		79.4	40-140	4.97	20	
Anthracene (SIM)	43.0	5.0	µg/L	50.0		86.0	40-140	3.43	20	
Benzo(a)anthracene (SIM)	41.6	1.2	µg/L	50.0		83.2	40-140	3.72	20	
Benzo(a)pyrene (SIM)	44.0	2.5	µg/L	50.0		88.1	40-140	3.57	20	
Benzo(b)fluoranthene (SIM)	44.6	1.2	µg/L	50.0		89.3	40-140	3.74	20	
Benzo(g,h,i)perylene (SIM)	42.0	12	µg/L	50.0		84.0	40-140	3.74	20	
Benzo(k)fluoranthene (SIM)	44.2	5.0	µg/L	50.0		88.4	40-140	3.83	20	
Chrysene (SIM)	41.8	5.0	µg/L	50.0		83.6	40-140	3.47	20	
Dibenz(a,h)anthracene (SIM)	42.4	5.0	µg/L	50.0		84.7	40-140	4.61	20	
Fluoranthene (SIM)	42.2	12	µg/L	50.0		84.4	40-140	3.32	20	
Fluorene (SIM)	42.0	25	µg/L	50.0		84.0	40-140	3.45	20	
Indeno(1,2,3-cd)pyrene (SIM)	41.6	5.0	µg/L	50.0		83.3	40-140	4.52	20	‡
2-Methylnaphthalene (SIM)	37.6	25	µg/L	50.0		75.2	40-140	8.47	20	
Naphthalene (SIM)	35.6	25	µg/L	50.0		71.2	40-140	11.5	20	
Phenanthrene (SIM)	42.2	1.2	µg/L	50.0		84.4	40-140	3.72	20	
Pyrene (SIM)	41.8	25	µg/L	50.0		83.7	40-140	4.55	20	
Surrogate: Nitrobenzene-d5	*85.6*		µg/L	100		85.6	30-130			
Surrogate: 2-Fluorobiphenyl	*86.5*		µg/L	100		86.5	30-130			
Surrogate: p-Terphenyl-d14	*70.3*		µg/L	100		70.3	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183192 - SW-846 3510C										
Blank (B183192-BLK1)				Prepared & Analyzed: 08/03/17						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*2.15*		µg/L	2.00		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.31*		µg/L	2.00		116	30-150			
Surrogate: Tetrachloro-m-xylene	*1.89*		µg/L	2.00		94.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.98*		µg/L	2.00		99.2	30-150			
LCS (B183192-BS1)				Prepared & Analyzed: 08/03/17						
Aroclor-1016	0.55	0.20	µg/L	0.500		110	40-140			
Aroclor-1016 [2C]	0.64	0.20	µg/L	0.500		128	40-140			
Aroclor-1260	0.52	0.20	µg/L	0.500		103	40-140			
Aroclor-1260 [2C]	0.61	0.20	µg/L	0.500		121	40-140			
Surrogate: Decachlorobiphenyl	*2.16*		µg/L	2.00		108	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.33*		µg/L	2.00		116	30-150			
Surrogate: Tetrachloro-m-xylene	*1.85*		µg/L	2.00		92.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.00*		µg/L	2.00		100	30-150			
LCS Dup (B183192-BSD1)				Prepared & Analyzed: 08/03/17						
Aroclor-1016	0.58	0.20	µg/L	0.500		115	40-140	4.87	20	
Aroclor-1016 [2C]	0.68	0.20	µg/L	0.500		137	40-140	6.39	20	
Aroclor-1260	0.53	0.20	µg/L	0.500		105	40-140	1.89	20	
Aroclor-1260 [2C]	0.64	0.20	µg/L	0.500		129	40-140	6.02	20	
Surrogate: Decachlorobiphenyl	*2.14*		µg/L	2.00		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.32*		µg/L	2.00		116	30-150			
Surrogate: Tetrachloro-m-xylene	*1.87*		µg/L	2.00		93.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.99*		µg/L	2.00		99.6	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183351 - SW-846 3540C										
Blank (B183351-BLK1)				Prepared: 08/04/17 Analyzed: 08/14/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.182*		mg/Kg wet	0.200		90.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.169*		mg/Kg wet	0.200		84.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.159*		mg/Kg wet	0.200		79.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.167*		mg/Kg wet	0.200		83.6	30-150			
LCS (B183351-BS1)				Prepared: 08/04/17 Analyzed: 08/14/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		96.1	40-140			
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		98.3	40-140			
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		93.1	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		87.4	40-140			
Surrogate: Decachlorobiphenyl	*0.218*		mg/Kg wet	0.200		109	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.201*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.186*		mg/Kg wet	0.200		92.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.197*		mg/Kg wet	0.200		98.4	30-150			
LCS Dup (B183351-BSD1)				Prepared: 08/04/17 Analyzed: 08/14/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		94.5	40-140	1.61	30	
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		98.6	40-140	0.260	30	
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		93.4	40-140	0.315	30	
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		87.9	40-140	0.476	30	
Surrogate: Decachlorobiphenyl	*0.212*		mg/Kg wet	0.200		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.196*		mg/Kg wet	0.200		98.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.184*		mg/Kg wet	0.200		92.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.192*		mg/Kg wet	0.200		95.9	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183110 - SW-846 3510C										
Blank (B183110-BLK1)				Prepared: 08/02/17 Analyzed: 08/03/17						
CT ETPH	ND	0.075	mg/L							
Surrogate: o-Terphenyl	*0.0867*		mg/L	0.100		86.7	50-150			
LCS (B183110-BS1)				Prepared: 08/02/17 Analyzed: 08/03/17						
CT ETPH	0.652	0.075	mg/L	1.00		65.2	60-120			
Surrogate: o-Terphenyl	*0.0693*		mg/L	0.100		69.3	50-150			
LCS Dup (B183110-BSD1)				Prepared: 08/02/17 Analyzed: 08/03/17						
CT ETPH	0.684	0.075	mg/L	1.00		68.4	60-120	4.88	30	
Surrogate: o-Terphenyl	*0.0681*		mg/L	0.100		68.1	50-150			
Batch B183276 - SW-846 3546										
Blank (B183276-BLK1)				Prepared: 08/03/17 Analyzed: 08/04/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.29*		mg/Kg wet	3.33		98.8	50-150			
LCS (B183276-BS1)				Prepared: 08/03/17 Analyzed: 08/04/17						
CT ETPH	28.8	10	mg/Kg wet	33.3		86.3	60-120			
Surrogate: o-Terphenyl	*2.70*		mg/Kg wet	3.33		80.9	50-150			
LCS Dup (B183276-BSD1)				Prepared: 08/03/17 Analyzed: 08/04/17						
CT ETPH	30.5	10	mg/Kg wet	33.3		91.6	60-120	5.93	30	
Surrogate: o-Terphenyl	*2.84*		mg/Kg wet	3.33		85.3	50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183056 - SW-846 3005A										
Blank (B183056-BLK1)				Prepared: 08/01/17 Analyzed: 08/02/17						
Antimony	ND	5.0	µg/L							
Arsenic	ND	2.0	µg/L							
Barium	ND	50	µg/L							
Beryllium	ND	2.0	µg/L							
Cadmium	ND	2.5	µg/L							
Chromium	ND	5.0	µg/L							
Copper	ND	25	µg/L							
Lead	ND	5.0	µg/L							
Nickel	ND	25	µg/L							
Selenium	ND	25	µg/L							
Silver	ND	2.5	µg/L							
Thallium	ND	1.0	µg/L							
Vanadium	ND	25	µg/L							
Zinc	ND	50	µg/L							
LCS (B183056-BS1)				Prepared: 08/01/17 Analyzed: 08/02/17						
Antimony	259	5.0	µg/L	250		104	80-120			
Arsenic	252	2.0	µg/L	250		101	80-120			
Barium	253	50	µg/L	250		101	80-120			
Beryllium	254	2.0	µg/L	250		102	80-120			
Cadmium	250	2.5	µg/L	250		100	80-120			
Chromium	253	5.0	µg/L	250		101	80-120			
Copper	251	25	µg/L	250		100	80-120			
Lead	255	5.0	µg/L	250		102	80-120			
Nickel	251	25	µg/L	250		101	80-120			
Selenium	241	25	µg/L	250		96.6	80-120			
Silver	258	2.5	µg/L	250		103	80-120			
Thallium	245	1.0	µg/L	250		97.9	80-120			
Vanadium	253	25	µg/L	250		101	80-120			
Zinc	244	50	µg/L	250		97.6	80-120			
LCS Dup (B183056-BSD1)				Prepared: 08/01/17 Analyzed: 08/02/17						
Antimony	262	5.0	µg/L	250		105	80-120	0.945	20	
Arsenic	257	2.0	µg/L	250		103	80-120	1.78	20	
Barium	258	50	µg/L	250		103	80-120	1.86	20	
Beryllium	258	2.0	µg/L	250		103	80-120	1.82	20	
Cadmium	255	2.5	µg/L	250		102	80-120	1.66	20	
Chromium	260	5.0	µg/L	250		104	80-120	2.63	20	
Copper	259	25	µg/L	250		104	80-120	3.10	20	
Lead	261	5.0	µg/L	250		104	80-120	2.15	20	
Nickel	260	25	µg/L	250		104	80-120	3.19	20	
Selenium	243	25	µg/L	250		97.4	80-120	0.813	20	
Silver	265	2.5	µg/L	250		106	80-120	2.69	20	
Thallium	248	1.0	µg/L	250		99.1	80-120	1.28	20	
Vanadium	259	25	µg/L	250		104	80-120	2.26	20	
Zinc	249	50	µg/L	250		99.8	80-120	2.19	20	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183199 - SW-846 7470A Prep										
Blank (B183199-BLK1)				Prepared: 08/04/17 Analyzed: 08/05/17						
Mercury	ND	0.00010	mg/L							
LCS (B183199-BS1)				Prepared: 08/04/17 Analyzed: 08/05/17						
Mercury	0.00192	0.00010	mg/L	0.00200		95.8	80-120			
LCS Dup (B183199-BSD1)				Prepared: 08/04/17 Analyzed: 08/05/17						
Mercury	0.00184	0.00010	mg/L	0.00200		92.2	80-120	3.86	20	
Batch B183203 - SW-846 3050B										
Blank (B183203-BLK1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							
LCS (B183203-BS1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Antimony	72.0	5.0	mg/Kg wet	88.2		81.6	0-210.3			
Arsenic	55.2	5.0	mg/Kg wet	57.0		96.8	77.8-122.1			
Barium	108	5.0	mg/Kg wet	110		98.2	82-117.4			
Beryllium	68.1	0.50	mg/Kg wet	67.5		101	82.3-117.7			
Cadmium	77.4	0.50	mg/Kg wet	77.8		99.5	81.9-118.2			
Chromium	63.7	1.0	mg/Kg wet	65.0		97.9	78.7-120.6			
Copper	58.6	1.0	mg/Kg wet	56.4		104	80.4-119.6			
Lead	84.3	1.5	mg/Kg wet	85.6		98.5	82.4-117.8			
Nickel	59.7	1.0	mg/Kg wet	61.3		97.3	82.2-117.8			
Selenium	75.4	10	mg/Kg wet	78.9		95.6	77.1-122.3			
Silver	54.1	1.0	mg/Kg wet	54.2		99.7	74.3-125.4			
Thallium	192	5.0	mg/Kg wet	178		108	78.2-121.6			
Vanadium	54.6	2.0	mg/Kg wet	56.3		96.9	64.8-135.2			
Zinc	191	2.0	mg/Kg wet	198		96.5	79.7-120.8			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183203 - SW-846 3050B										
LCS Dup (B183203-BSD1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Antimony	69.8	5.1	mg/Kg wet	88.2		79.1	0-210.3	3.12	30	
Arsenic	56.0	5.1	mg/Kg wet	57.0		98.2	77.8-122.1	1.41	30	
Barium	106	5.1	mg/Kg wet	110		96.6	82-117.4	1.62	30	
Beryllium	67.7	0.51	mg/Kg wet	67.5		100	82.3-117.7	0.566	30	
Cadmium	78.4	0.51	mg/Kg wet	77.8		101	81.9-118.2	1.24	30	
Chromium	62.3	1.0	mg/Kg wet	65.0		95.8	78.7-120.6	2.18	30	
Copper	58.8	1.0	mg/Kg wet	56.4		104	80.4-119.6	0.296	30	
Lead	82.9	1.5	mg/Kg wet	85.6		96.9	82.4-117.8	1.69	30	
Nickel	60.9	1.0	mg/Kg wet	61.3		99.3	82.2-117.8	2.05	30	
Selenium	75.6	10	mg/Kg wet	78.9		95.8	77.1-122.3	0.247	30	
Silver	53.7	1.0	mg/Kg wet	54.2		99.1	74.3-125.4	0.626	30	
Thallium	189	5.1	mg/Kg wet	178		106	78.2-121.6	1.54	30	
Vanadium	52.7	2.0	mg/Kg wet	56.3		93.5	64.8-135.2	3.54	30	
Zinc	190	2.0	mg/Kg wet	198		96.1	79.7-120.8	0.393	30	
MRL Check (B183203-MRL1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Lead	0.863	0.72	mg/Kg wet	0.722		120	80-120			
Batch B183214 - SW-846 7471										
Blank (B183214-BLK1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Mercury	ND	0.025	mg/Kg wet							
LCS (B183214-BS1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Mercury	9.76	1.9	mg/Kg wet	9.36		104	73.7-126.3			
LCS Dup (B183214-BSD1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Mercury	9.10	1.9	mg/Kg wet	9.36		97.2	73.7-126.3	7.05	30	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183313 - % Solids										
Duplicate (B183313-DUP2)		**Source: 17G1258-01**		Prepared: 08/04/17 Analyzed: 08/05/17						
% Solids	89.6		% Wt		89.7			0.112	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-DUP-28

Lab Sample ID: 17G1258-07 Date(s) Analyzed 08/15/2017 08/15/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	3.5	
	2	0.000	-0.030	0.030	3.3	5.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B183192-BS1

Date(s) Analyzed 08/03/2017 08/03/2017

Instrument ID (1): ECD1

Instrument ID (2): ECD1

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.55	
	2	0.000	0.000	0.000	0.64	15.1
Aroclor-1260	1	0.000	0.000	0.000	0.52	
	2	0.000	0.000	0.000	0.61	15.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B183192-BSD1 Date(s) Analyzed 08/03/2017 08/03/2017

Instrument ID (1): ECD1 Instrument ID (2): ECD1

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.58	
	2	0.000	0.000	0.000	0.68	15.9
Aroclor-1260	1	0.000	0.000	0.000	0.53	
	2	0.000	0.000	0.000	0.64	18.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B183351-BS1

Date(s) Analyzed 08/14/2017 08/14/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.20	5.1
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.17	11.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B183351-BSD1 Date(s) Analyzed 08/14/2017 08/14/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.20	5.1
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.18	5.4

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
L-01	Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
RL-03	Elevated reporting limit based on lowest point in calibration. Requested reporting limit not met.
RL-11	Elevated reporting limit due to high concentration of target compounds.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
S-12	Surrogate recovery is outside of control limits on confirmatory column, but within control limits on primary column. Data validation is not affected.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
CTDEP ETPH in Water	
CT ETPH	CT
SW-846 6010C-D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 6020A-B in Water	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,RI,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
Dibromomethane	NH,NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
trans-1,4-Dichloro-2-butene	NY
Dichlorodifluoromethane (Freon 12)	NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NY
Methyl tert-Butyl Ether (MTBE)	NH,NY
Methylene Chloride	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
Trichloroethylene	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
SW-846 8270D in Water	
Aniline	CT,NY
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY
1,3-Dichlorobenzene	NY
1,4-Dichlorobenzene	NY
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodiphenylamine	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenol	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17G1258

con-test ANALYTICAL LABORATORY

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http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	SVOCs	RSR's 15 Metal	VOCs						# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC7-SO-22-3	7/27/17	14:39					X		X											
2	WS-AOC7-SO-22-4	↓	14:40					X		X											
3	WS-AOC7-SO-23-1		14:41					X													
4	WS-AOC7-SO-23-2		14:42					X		X			X								
5	WS-AOC7-SO-23-3	↓	14:43					X		X											
6	TRIP BLANK	7/27/17	15:20										X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 7/27/17 1525
Received by: (signature)	Date/Time: 7/27/17 1525
Relinquished by: (signature)	Date/Time: 7-27-17 7:45
Received by: (signature)	Date/Time: 7/27/17 1995
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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CHAIN OF CUSTODY RECORD

39 Spruce Street
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Phone:	860 513-1473
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Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	SVOCs	RSR 15 Metals	VOCs						# of Containers
7	WS-AOC13-SO-DUP-28		7/27/15		X	S	U	X											[2] Preservation Code
8	WS-AOC7-SO-DUP-29									X		X							[3] Container Code
9	WS-AOC7-SO-DUP-30												X						

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) [illegible] 7/27/17	Date/Time: 1525
Received by: (signature) [illegible]	Date/Time: 7/27/17 1525
Relinquished by: (signature) [illegible] 7-27-17	Date/Time: 7:45
Received by: (signature) [illegible] 4.0 7/27/17	Date/Time: 1945
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

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7-Day ☑ 10-Day ☐
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Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

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Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	VOCs	PCBs	ETPH	SVOCs	RSR 15 Metals	# of Containers	[2] Preservation Code	[3] Container Code
10	EB17	7/27/17	0800			O	U		X	X	X	X			
11	EB18	7/27/17	0800			O	U		X	X	X	X			
	~~Trip Blank (7/27/17)~~	~~7/27/17~~	—			~~T~~	~~U~~	~~X~~							

Dissolved Metals Samples:
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples:
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) eg. blank
T = trip blank

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
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Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
7/27/17	1525
Received by: (signature)	Date/Time:
	7/27/17 1525
Relinquished by: (signature)	Date/Time:
7-27-17	7:45
Received by: (signature)	Date/Time:
7/27/17	1915
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

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www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston + Sampson

Received By JM Date 7/27/17 Time 1945

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.0, 2.3, 2.1
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? F
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A Who was notified? ____
Are there Rushes? N/A Who was notified? ____
Are there Short Holds? N/A Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? N/A
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A
Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	12	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	2Q7
Meoh-	3	250 mL Amb.		250 mL Plastic	2	4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-	6	Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen: 7/27/17 1945	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\A080417\A0804042.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/4/17
Data File Name	A0804042.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.07	496930	540759	-8
c - 10	1.43	504684	540759	-7
c - 12	2.16	531774	540759	-2
c - 14	2.84	548652	540759	1
c - 16	3.44	561658	540759	4
c - 18	4.02	556185	540759	3
o-Terphenyl	4.30	591043	540759	
c - 20	4.63	564764	540759	4
c - 22	5.15	571232	540759	6
c - 24	5.60	531546	540759	-2
c - 26	6.00	557639	540759	3
c - 28	6.36	545631	540759	1
c - 30	6.69	541457	540759	0
c - 32	7.00	529841	540759	-2
c - 34	7.30	534051	540759	-1
c - 36	7.58	535342	540759	-1

* One compound allowed %D <= 50%

Samples

17G1258-10
17G1258-11
17G1188-01
17G1188-02
17G1188-03

D:\HPCHEM\1\DATA\A080417\A0804078.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/4/17
Data File Name	A0804078.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.07	451447	495950	-9
c - 10	1.43	453087	495950	-9
c - 12	2.16	479235	495950	-3
c - 14	2.84	491947	495950	-1
c - 16	3.44	506893	495950	2
c - 18	4.02	504487	495950	2
o-Terphenyl	4.31	554881	495950	
c - 20	4.63	517031	495950	4
c - 22	5.15	526767	495950	6
c - 24	5.60	494638	495950	0
c - 26	5.99	520797	495950	5
c - 28	6.35	509017	495950	3
c - 30	6.69	504152	495950	2
c - 32	7.00	490587	495950	-1
c - 34	7.29	493940	495950	0
c - 36	7.58	495218	495950	0

* One compound allowed %D <= 50%

Samples

17G1257-13
17G1257-18
17G1254-18
17G1169-17
17G1075-10@5X
17G1075-13@5X
17G1172-11
17G1074-19
17G1074-06@10X
17G1074-09@10X
17G1077-17RE1@20X