Ecosystems Strategies, Inc.
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August 12, 2015

Kenneth Kearney
Parkview Development & Construction, LLC
1777 US Route 6
Carmel, New York 10512 via EMAIL: kenkgroup@aol.com

Re: Supplemental Subsurface Investigation for the property located at
922 Main Street and 921 Diven Street,
City of Peekskill, Westchester County, New York
ESI File. KP14175.20

Dear Mr. Kearney:

Ecosystems Strategies, Inc. (ESI) is submitting the attachments corresponding to supplemental subsurface investigative activities performed at the above-referenced property on August 5, 2015. These data, and analytical information previously reported in the Phase II Environmental Site Assessment, will be included in an application for acceptance into the New York State Brownfields Cleanup Program.

Please review this document and contact our office at (845) 452-1658 with any questions.

Sincerely,

ECOSYSTEMS STRATEGIES, INC.

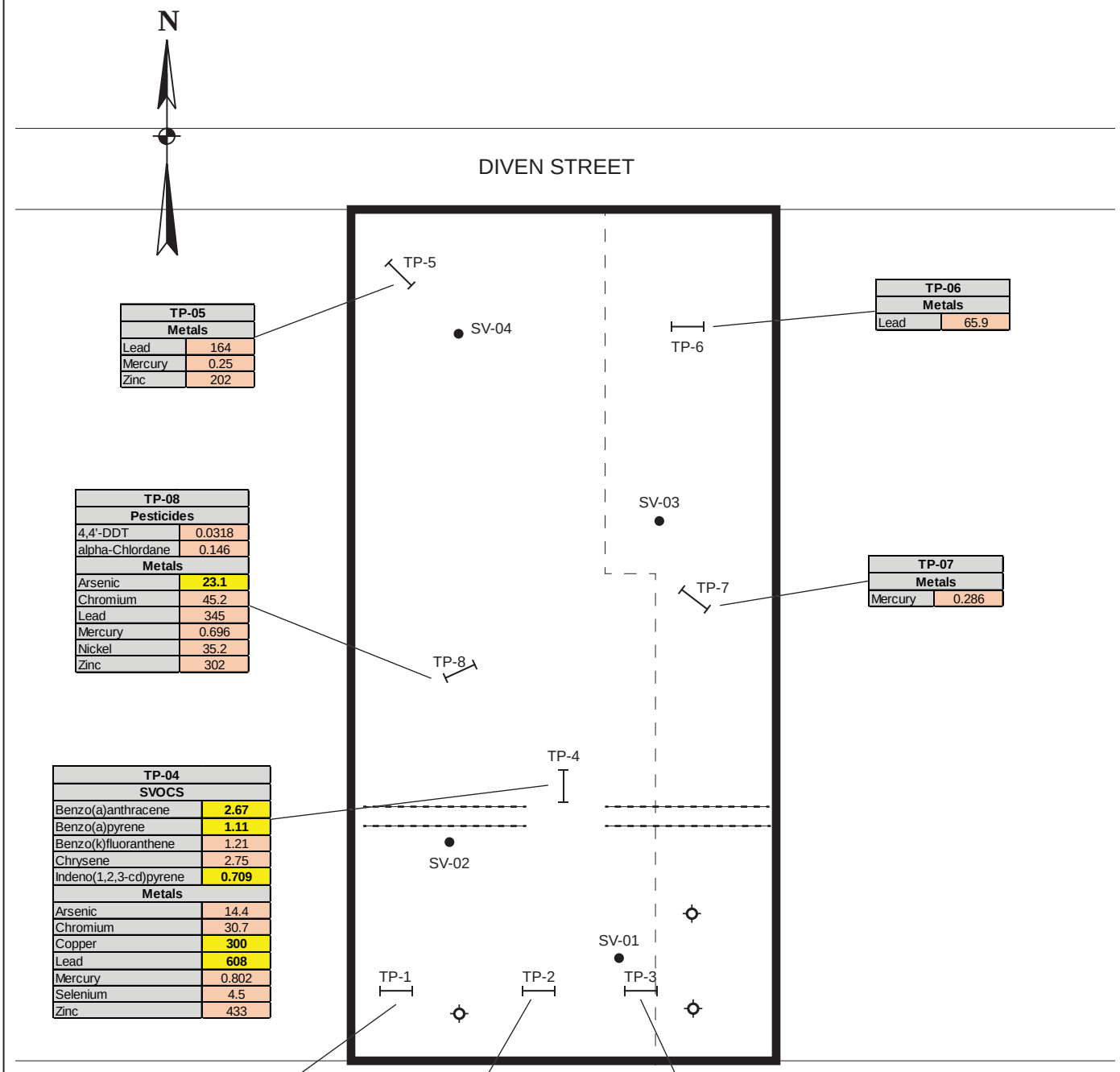
Paul H. Ciminello
President

PHC:ALA

Attachments: Sampling Map
Data Tables
Laboratory Report

cc: Michelle Valenzo thekearneygroup@aol.com

Ecosystems Strategies, Inc.



All feature locations are approximate. This map is intended as a schematic to be used in conjunction with the associated report, and it should not be relied upon as a survey for planning or other activities.

Sampling Map

922 Main Street and 921 Diven Street
City of Peekskill
Westchester County, New York

Legend:

- subject property border
- lot line
- approximate location of concrete & rebar
- approximate location of Geothermal wells
- test pit location
- soil vapor location

ESI File: KP14175.20

August 2015

Scale as shown

Attachment

Table 1: VOCs in Soils

Ecosystems Strategies, Inc.

ESI File: KP14175.20

All data in mg/Kg (parts per million, ppm)		**Sample ID**	**TP-03**		**TP-04**		**TP-07**	
U= Not Detected at or above indicated value		Sample Date	(2015-06-22)		(2015-06-22)		(2015-06-22)	
Data above SCOs shown in **Bold**		Dilution Factor	1		1		1	
VOCs, 8260	**UUSCO**	**RRUSCO**	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*
1,1,1,2-Tetrachloroethane	NA	NA	0.0029	*U*	0.0029	*U*	0.0025	*U*
1,1,1-Trichloroethane	0.68	100	0.0029	*U*	0.0029	*U*	0.0025	*U*
1,1,2,2-Tetrachloroethane	NA	NA	0.0029	*U*	0.0029	*U*	0.0025	*U*
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	0.0029	*U*	0.0029	*U*	0.0025	*U*
1,1,2-Trichloroethane	NA	NA	0.0029	*U*	0.0029	*U*	0.0025	*U*
1,1-Dichloroethane	0.27	26	0.0029	*U*	0.0029	*U*	0.0025	*U*
1,1-Dichloroethylene (1,1-DCE)	0.33	100	0.0029	*U*	0.0029	*U*	0.0025	*U*
1,2,3-Trichlorobenzene	NA	NA	0.0029	*U*	0.0029	*U*	0.0025	*U*
1,2,3-Trichloropropane	NA	NA	0.0029	*U*	0.0029	*U*	0.0025	*U*
1,2,4-Trichlorobenzene	NA	NA	0.0029	*U*	0.0029	*U*	0.0025	*U*
1,2,4-Trimethylbenzene	3.6	52	0.0029	*U*	0.0029	*U*	0.0025	*U*
1,2-Dibromo-3-chloropropane	NA	NA	0.0029	*U*	0.0029	*U*	0.0025	*U*
1,2-Dibromoethane	NA	NA	0.0029	*U*	0.0029	*U*	0.0025	*U*
1,2-Dichlorobenzene	1.1	100	0.0029	*U*	0.0029	*U*	0.0025	*U*
1,2-Dichloroethane	0.2	31	0.0029	*U*	0.0029	*U*	0.0025	*U*
1,2-Dichloropropane	NA	NA	0.0029	*U*	0.0029	*U*	0.0025	*U*
1,3,5-Trimethylbenzene	8.4	52	0.0029	*U*	0.0029	*U*	0.0025	*U*
1,3-Dichlorobenzene	2.4	49	0.0029	*U*	0.0029	*U*	0.0025	*U*
1,4-Dichlorobenzene	1.8	13	0.0029	*U*	0.0029	*U*	0.0025	*U*
1,4-Dioxane	0.1	13	0.059	*U*	0.057	*U*	0.05	*U*
2-Butanone (MEK)	0.12	100	0.0029	*U*	0.0029	*U*	0.0025	*U*
2-Hexanone	NA	NA	0.0029	*U*	0.0029	*U*	0.0025	*U*
4-Methyl-2-pentanone	NA	NA	0.0029	*U*	0.0029	*U*	0.0025	*U*
Acetone	0.05	100	0.0059	*U*	0.0057	*U*	0.005	*U*
Acrolein	NA	NA	0.0059	*U*	0.0057	*U*	0.005	*U*
Acrylonitrile	NA	NA	0.0029	*U*	0.0029	*U*	0.0025	*U*
Benzene	0.06	48	0.0029	*U*	0.0029	*U*	0.0025	*U*
Bromochloromethane	NA	NA	0.0029	*U*	0.0029	*U*	0.0025	*U*
Bromodichloromethane	NA	NA	0.0029	*U*	0.0029	*U*	0.0025	*U*
Bromoform	NA	NA	0.0029	*U*	0.0029	*U*	0.0025	*U*
Bromomethane	NA	NA	0.0029	*U*	0.0029	*U*	0.0025	*U*
Carbon disulfide	NA	100	0.0029	*U*	0.0029	*U*	0.0025	*U*
Carbon tetrachloride	0.76	24	0.0029	*U*	0.0029	*U*	0.0025	*U*
Chlorobenzene	1.1	100	0.0029	*U*	0.0029	*U*	0.0025	*U*
Chloroethane	NA	NA	0.0029	*U*	0.0029	*U*	0.0025	*U*
Chloroform	0.37	49	0.0029	*U*	0.0029	*U*	0.0025	*U*
Chloromethane	NA	NA	0.0029	*U*	0.0029	*U*	0.0025	*U*
cis-1,2-Dichloroethylene (cis-DCE)	0.25	100	0.0029	*U*	0.0029	*U*	0.0025	*U*
cis-1,3-Dichloropropylene	NA	NA	0.0029	*U*	0.0029	*U*	0.0025	*U*
Cyclohexane	NA	NA	0.0029	*U*	0.0029	*U*	0.0025	*U*
Dibromochloromethane	NA	NA	0.0029	*U*	0.0029	*U*	0.0025	*U*
Dibromomethane	NA	NA	0.0029	*U*	0.0029	*U*	0.0025	*U*
Dichlorodifluoromethane	NA	NA	0.0029	*U*	0.0029	*U*	0.0025	*U*
Ethyl Benzene	1	41	0.0029	*U*	0.0029	*U*	0.0025	*U*
Hexachlorobutadiene	NA	NA	0.0029	*U*	0.0029	*U*	0.0025	*U*
Isopropylbenzene	2.3	100	0.0029	*U*	0.0029	*U*	0.0025	*U*
Methyl acetate	NA	NA	0.0029	*U*	0.0029	*U*	0.0025	*U*
Methyl tert-butyl ether (MTBE)	0.93	100	0.0029	*U*	0.0029	*U*	0.0025	*U*
Methylcyclohexane	NA	NA	0.0029	*U*	0.0029	*U*	0.0025	*U*
Methylene chloride	0.05	500	0.0059	*U*	0.0057	*U*	0.005	*U*
n-Butylbenzene	12	100	0.0029	*U*	0.0029	*U*	0.0025	*U*
n-Propylbenzene	3.9	100	0.0029	*U*	0.0029	*U*	0.0025	*U*
o-Xylene	0.26	100	0.0029	*U*	0.0029	*U*	0.0025	*U*
p- & m- Xylenes	0.26	100	0.0059	*U*	0.0057	*U*	0.005	*U*
p-Isopropyltoluene	10	NA	0.0029	*U*	0.0029	*U*	0.0025	*U*
sec-Butylbenzene	11	100	0.0029	*U*	0.0029	*U*	0.0025	*U*
Styrene	NA	NA	0.0029	*U*	0.0029	*U*	0.0025	*U*
tert-Butyl alcohol (TBA)	NA	NA	0.0029	*U*	0.0029	*U*	0.0025	*U*
tert-Butylbenzene	5.9	100	0.0029	*U*	0.0029	*U*	0.0025	*U*
Tetrachloroethylene (PCE)	1.3	19	0.0029	*U*	0.0029	*U*	0.0025	*U*
Toluene	0.7	100	0.0029	*U*	0.0029	*U*	0.0025	*U*
trans-1,2-Dichloroethylene (trans-DCE)	0.19	100	0.0029	*U*	0.0029	*U*	0.0025	*U*
trans-1,3-Dichloropropylene	NA	NA	0.0029	*U*	0.0029	*U*	0.0025	*U*
Trichloroethylene (TCE)	0.47	21	0.0029	*U*	0.0029	*U*	0.0025	*U*
Trichlorofluoromethane	NA	NA	0.0029	*U*	0.0029	*U*	0.0025	*U*
Vinyl chloride (VC)	NA	0.9	0.0029	*U*	0.0029	*U*	0.0025	*U*
Xylenes, Total	0.26	100	0.0088	*U*	0.0086	*U*	0.0076	*U*

Detected Concentrations
Concentrations > UUSCOs
Concentrations > RRUSCOs

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available
Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

Table 2: SVOCs (PAHs) in Soils

Ecosystems Strategies, Inc.

ESI File: KP14175.20

All data in mg/Kg (parts per million, ppm)			**Sample ID**	**TP-01**		**TP-02**		**TP-04**	
U= Not Detected at or above indicated value			Sample Date	(2015-06-22)		(2015-06-22)		(2015-06-22)	
Data above SCOs shown in Bold			Dilution Factor	5		5		10	
SVOCs, 8270	**UUSCO**	**RRUSCO**	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*
2-Chloronaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	0.179	*U*	0.185	*U*	0.365	*U*
Acenaphthene	20	100	0.179	*U*	0.185	*U*	0.365	*U*
Acenaphthylene	100	100	0.179	*U*	0.248	*JD*	0.365	*U*
Anthracene	100	100	0.179	*U*	0.185	*U*	0.93	*D*
Benzo(a)anthracene	1	1	0.632	*D*	0.772	*D*	**2.67**	*D*
Benzo(a)pyrene	1	1	0.412	*D*	0.486	*D*	**1.11**	*D*
Benzo(b)fluoranthene	1	1	0.461	*D*	0.731	*D*	0.948	*D*
Benzo(g,h,i)perylene	100	100	0.226	*JD*	0.253	*JD*	0.605	*JD*
Benzo(k)fluoranthene	0.8	3.9	0.475	*D*	0.51	*D*	1.21	*D*
Chrysene	1	3.9	0.704	*D*	1.01	*D*	2.75	*D*
Dibenzo(a,h)anthracene	0.33	0.33	0.179	*U*	0.185	*U*	0.365	*U*
Fluoranthene	100	100	1.37	*D*	2.37	*D*	6.48	*D*
Fluorene	30	100	0.179	*U*	0.185	*U*	0.365	*U*
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.237	*JD*	0.265	*JD*	**0.709**	*JD*
Naphthalene	12	100	0.179	*U*	0.185	*U*	0.365	*U*
Phenanthrene	100	100	0.924	*D*	1.64	*D*	4.49	*D*
Pyrene	100	100	1.11	*D*	1.8	*D*	4.63	*D*

Detected Concentrations
Concentrations > UUSCOs
Concentrations > RRUSCOs

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available
Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

Table 2: SVOCs (PAHs) in Soils

Ecosystems Strategies, Inc.

ESI File: KP14175.20

All data in mg/Kg (parts per million, ppm)			**Sample ID**	**TP-05**		**TP-15**		**TP-16**	
U= Not Detected at or above indicated value			Sample Date	(2015-06-22)		(2015-08-05)		(2015-08-05)	
Data above SCOs shown in Bold			Dilution Factor	2		5		1	
SVOCs, 8270	**UUSCO**	**RRUSCO**		*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*
2-Chloronaphthalene	NA	NA		NA	NA	*0.037*	*U*	0.0074	*U*
2-Methylnaphthalene	NA	NA		0.0683	*U*	0.062		0.0074	
Acenaphthene	20	100		0.0683	*U*	0.034	*J*	0.011	
Acenaphthylene	100	100		0.0683	*U*	0.11		0.049	
Anthracene	100	100		0.0683	*U*	0.15		0.069	
Benzo(a)anthracene	1	1		0.34	*D*	0.38		0.22	
Benzo(a)pyrene	1	1		0.142	*D*	0.33		0.22	
Benzo(b)fluoranthene	1	1		0.199	*D*	0.42		0.28	
Benzo(g,h,i)perylene	100	100		0.0683	*U*	0.22		0.14	
Benzo(k)fluoranthene	0.8	3.9		0.161	*D*	0.17		0.1	
Chrysene	1	3.9		0.326	*D*	0.41		0.21	
Dibenzo(a,h)anthracene	0.33	0.33		0.0683	*U*	0.065		0.043	
Fluoranthene	100	100		0.667	*D*	0.89		0.34	
Fluorene	30	100		0.0683	*U*	0.076		0.015	
Indeno(1,2,3-cd)pyrene	0.5	0.5		0.0683	*U*	0.18		0.16	
Naphthalene	12	100		0.0683	*U*	0.16		0.013	
Phenanthrene	100	100		0.339	*D*	0.79		0.17	
Pyrene	100	100		0.568	*D*	0.73		0.3	

Detected Concentrations
Concentrations > UUSCOs
Concentrations > RRUSCOs

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available
Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

Table 3: Pesticides and PCBs in Soils

Ecosystems Strategies, Inc.

ESI File: KP14175.20

All data in mg/Kg (parts per million, ppm)		**Sample ID**	**TP-03**		**TP-06**		**TP-08**		**TP-10**		**TP-12**	
U= Not Detected at or above indicated value		Sample Date	(2015-06-22)		(2015-06-22)		(2015-06-22)		(2015-08-05)		(2015-08-05)	
Data above SCOs shown in **Bold**		Dilution Factor	5		5		5		1		1	
Pesticides, 8081	**UUSCO**	**RRUSCO**	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*
4,4'-DDD	0.0033	13	0.00524	*D*	0.00268	*U*	0.00287	*U*	0.00175	*U*	0.00188	*U*
4,4'-DDE	0.0033	8.9	0.00286	*U*	0.00268	*U*	0.00287	*U*	0.00342		0.00914	
4,4'-DDT	0.0033	7.9	0.021	*D*	0.00268	*U*	0.0318	*D*	0.0254		0.0202	*P*
Aldrin	0.005	0.097	0.00286	*U*	0.00268	*U*	0.00287	*U*	0.00175	*U*	0.00188	*U*
alpha-BHC	0.02	0.48	0.00286	*U*	0.00268	*U*	0.00287	*U*	0.00072	*U*	0.00078	*U*
alpha-Chlordane	0.094	4.2	0.0141	*D*	0.00268	*U*	0.146	*D*	0.00219	*U*	0.00235	*U*
beta-BHC	0.036	0.36	0.00286	*U*	0.00268	*U*	0.00287	*U*	0.00175	*U*	0.00188	*U*
Chlordane (total)	NA	NA	0.131	*D*	0.107	*U*	1.31	*D*	0.0142	*U*	0.0153	*U*
delta-BHC	0.04	100	0.00286	*U*	0.00268	*U*	0.00287	*U*	0.00175	*U*	0.00188	*U*
Dieldrin	0.005	0.2	0.00286	*U*	0.00268	*U*	0.00287	*U*	0.00109	*U*	0.00118	*U*
Endosulfan I	2.4	24	0.00286	*U*	0.00268	*U*	0.00287	*U*	0.00175	*U*	0.00188	*U*
Endosulfan II	2.4	24	0.00286	*U*	0.00268	*U*	0.00287	*U*	0.00175	*U*	0.00188	*U*
Endosulfan sulfate	2.4	24	0.00286	*U*	0.00268	*U*	0.00287	*U*	0.00072	*U*	0.00078	*U*
Endrin	0.014	11	0.00286	*U*	0.00268	*U*	0.00287	*U*	0.00154		0.00358	*PI*
Endrin aldehyde	NA	NA	0.00286	*U*	0.00268	*U*	0.00287	*U*	0.00219	*U*	0.00235	*U*
Endrin ketone	NA	NA	0.00286	*U*	0.00268	*U*	0.00287	*U*	0.00175	*U*	0.00188	*U*
gamma-BHC (Lindane)	0.1	1.3	0.00286	*U*	0.00268	*U*	0.00287	*U*	0.00072	*U*	0.00078	*U*
gamma-Chlordane	NA	0.54	0.0175	*D*	0.00268	*U*	0.159	*D*	0.00219	*U*	0.00235	*U*
Heptachlor	0.042	2.1	0.00286	*U*	0.00268	*U*	0.00287	*U*	0.00087	*U*	0.00094	*U*
Heptachlor Epoxide	NA	0.077	0.00286	*U*	0.00268	*U*	0.00287	*U*	0.00328	*U*	0.00353	*U*
Methoxychlor	NA	100	0.0143	*U*	0.0134	*U*	0.0143	*U*	0.00328	*U*	0.00353	*U*
Toxaphene	NA	NA	0.145	*U*	0.136	*U*	0.145	*U*	0.0328	*U*	0.0353	*U*

		Sample ID	**TP-03**		**TP-06**		**TP-08**	
		Sample Date	(2015-06-22)		(2015-06-22)		(2015-06-22)	
		Dilution Factor	1		1		1	
PCBs, 8082	**UUSCO**	**RRUSCO**	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*
Aroclor 1016	0.1	1.00	0.0289	*U*	0.027	*U*	0.029	*U*
Aroclor 1221	0.1	1.00	0.0289	*U*	0.027	*U*	0.029	*U*
Aroclor 1232	0.1	1.00	0.0289	*U*	0.027	*U*	0.029	*U*
Aroclor 1242	0.1	1.00	0.0289	*U*	0.027	*U*	0.029	*U*
Aroclor 1248	0.1	1.00	0.0289	*U*	0.027	*U*	0.029	*U*
Aroclor 1254	0.1	1.00	0.0289	*U*	0.027	*U*	0.029	*U*
Aroclor 1260	0.1	1.00	0.0289	*U*	0.027	*U*	0.029	*U*
Aroclor, Total	0.1	1.00	0.0289	*U*	0.027	*U*	0.029	*U*

Detected Concentrations
Concentrations > UUSCOs
Concentrations > RRUSCOs

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available
Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

Table 3: Pesticides and PCBs in Soils

Ecosystems Strategies, Inc.

ESI File: KP14175.20

All data in mg/Kg (parts per million, ppm)		**Sample ID**	**TP-14**		**TP-15**		**TP-16**	
U= Not Detected at or above indicated value		Sample Date	(2015-08-05)		(2015-08-05)		(2015-08-05)	
Data above SCOs shown in **Bold**		Dilution Factor	1		1		1	
Pesticides, 8081	**UUSCO**	**RRUSCO**	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*
4,4'-DDD	0.0033	13	0.00173	*U*	0.00173	*U*	0.00176	*U*
4,4'-DDE	0.0033	8.9	0.00303	*P*	0.00173	*U*	0.00176	*U*
4,4'-DDT	0.0033	7.9	0.0256		0.00481		0.00837	*P*
Aldrin	0.005	0.097	0.00173	*U*	0.00173	*U*	0.00176	*U*
alpha-BHC	0.02	0.48	0.00072	*U*	0.00072	*U*	0.00073	*U*
alpha-Chlordane	0.094	4.2	0.0163		0.0471	*PI*	0.0861	*PI*
beta-BHC	0.036	0.36	0.00173	*U*	0.00173	*U*	0.00118	*J*
Chlordane (total)	NA	NA	0.0461		0.33		0.561	
delta-BHC	0.04	100	0.00173	*U*	0.00173	*U*	0.00176	*U*
Dieldrin	0.005	0.2	0.00108	*U*	0.00108	*U*	0.0011	*U*
Endosulfan I	2.4	24	0.00173	*U*	0.00173	*U*	0.00176	*U*
Endosulfan II	2.4	24	0.00173	*U*	0.00173	*U*	0.00176	*U*
Endosulfan sulfate	2.4	24	0.00072	*U*	0.00072	*U*	0.00073	*U*
Endrin	0.014	11	0.00634	*P*	0.00072	*U*	0.00073	*U*
Endrin aldehyde	NA	NA	0.00216	*U*	0.00216	*U*	0.00221	*U*
Endrin ketone	NA	NA	0.00173	*U*	0.00173	*U*	0.00176	*U*
gamma-BHC (Lindane)	0.1	1.3	0.00072	*U*	0.00072	*U*	0.00073	*U*
gamma-Chlordane	NA	0.54	0.00664		0.0549		0.103	
Heptachlor	0.042	2.1	0.00066	*J*	0.00365		0.0108	
Heptachlor Epoxide	NA	0.077	0.00187	*J*	0.00368	*PI*	0.00342	*PI*
Methoxychlor	NA	100	0.00324	*U*	0.00324	*U*	0.00331	*U*
Toxaphene	NA	NA	0.0324	*U*	0.0324	*U*	0.0331	*U*

		Sample ID
		Sample Date
		Dilution Factor
PCBs, 8082	**UUSCO**	**RRUSCO**
Aroclor 1016	0.1	1.00
Aroclor 1221	0.1	1.00
Aroclor 1232	0.1	1.00
Aroclor 1242	0.1	1.00
Aroclor 1248	0.1	1.00
Aroclor 1254	0.1	1.00
Aroclor 1260	0.1	1.00
Aroclor, Total	0.1	1.00

Detected Concentrations
Concentrations > UUSCOs
Concentrations > RRUSCOs

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available
Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

Table 4: TAL Metals in Soils

Ecosystems Strategies, Inc.

ESI File: KP14175.20

All data in mg/Kg (parts per million, ppm)		**Sample ID**	**TP-01**		**TP-02**		**TP-03**		**TP-04**	
U= Not Detected at or above indicated value		Sample Date	(2015-06-22)		(2015-06-22)		(2015-06-22)		(2015-06-22)	
Data above SCOs shown in **Bold**		Dilution Factor	1		1		1		1	
Metals, 6010 and 7473	**UUSCO**	**RRUSCO**	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*
Aluminum	NA	NA	15,900		20,300		14,700		13,800	
Antimony	NA	NA	0.572	*U*	0.589	*U*	0.577	*U*	0.581	*U*
Arsenic	13	16	**22**		7.93		9.05		14.4	
Barium	350	400	233		274		316		346	
Beryllium	7.2	72	0.114	*U*	0.118	*U*	0.115	*U*	0.116	*U*
Cadmium	2.5	4.3	0.861		0.789		0.833		1.22	
Calcium	NA	NA	11,100		5,260		8,510		15,300	
Chromium	30	180	26.3		29.9		26.8		30.7	
Cobalt	NA	NA	13.8		12.6		11.5		12.3	
Copper	50	270	54.2		37.5		42.3		**300**	
Iron	NA	NA	29900		26400		24800		28400	
Lead	63	400	259		**538**		**600**		**608**	
Magnesium	NA	NA	10,600		7,090		7,940		8,920	
Manganese	1,600	2,000	419		821		444		448	
Mercury	0.18	0.81	0.402		0.479		**1.04**		0.802	
Nickel	30	310	16.6		18.5		17.1		18.4	
Potassium	NA	NA	3,540		2,200		2,140		2,130	
Selenium	3.90	180	3	*B*	2.8	*B*	3.94	*B*	4.5	*B*
Silver	2	180	0.572	*U*	0.589	*U*	0.577	*U*	0.581	*U*
Sodium	NA	NA	185		128		121		162	
Thallium	NA	NA	1.14	*U*	1.18	*U*	1.15	*U*	1.16	*U*
Vanadium	NA	NA	48.8		40.4		36.6		38.7	
Zinc	109	2,200	258		254		310		433	

Detected Concentrations
Concentrations > UUSCOs
Concentrations > RRUSCOs

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available
Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

Table 4: TAL Metals in Soils

Ecosystems Strategies, Inc.

ESI File: KP14175.20

All data in mg/Kg (parts per million, ppm)		**Sample ID**	**TP-05**		**TP-06**		**TP-07**		**TP-08**	
U= Not Detected at or above indicated value		Sample Date	(2015-06-22)		(2015-06-22)		(2015-06-22)		(2015-06-22)	
Data above SCOs shown in **Bold**		Dilution Factor	1		1		1		1	
Metals, 6010 and 7473	**UUSCO**	**RRUSCO**	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*
Aluminum	NA	NA	10,700		9,110		8,470		14,300	
Antimony	NA	NA	0.545	*U*	0.541	*U*	0.54	*U*	0.58	*U*
Arsenic	13	16	11.6		3.19		2.89		**23.1**	
Barium	350	400	156		69.5		50.2		226	
Beryllium	7.2	72	0.109	*U*	0.108	*U*	0.108	*U*	0.116	*U*
Cadmium	2.5	4.3	0.704		0.325	*U*	0.324	*U*	0.837	
Calcium	NA	NA	3,900		1,480		1,760		11,500	
Chromium	30	180	25.4		10.9		11.6		45.2	
Cobalt	NA	NA	10.1		9.61		8.05		12.6	
Copper	50	270	40.7		28		20.7		49.6	
Iron	NA	NA	19500		18000		15200		25800	
Lead	63	400	164		65.9		60.2		345	
Magnesium	NA	NA	5,560		3,240		3,550		7,100	
Manganese	1,600	2,000	345		579		314		451	
Mercury	0.18	0.81	0.25		0.0325	*U*	0.286		0.696	
Nickel	30	310	21		12.2		12.7		35.2	
Potassium	NA	NA	1,450		980		941		1,950	
Selenium	3.90	180	2.16	*B*	2.12	*B*	1.14	*B*	3.48	*B*
Silver	2	180	0.545	*U*	0.541	*U*	0.54	*U*	0.58	*U*
Sodium	NA	NA	98.5		83.8		80		134	
Thallium	NA	NA	1.09	*U*	1.08	*U*	1.08	*U*	1.16	*U*
Vanadium	NA	NA	27.2		21.2		17.5		35.2	
Zinc	109	2,200	202		58.1		53.9		302	

Detected Concentrations
Concentrations > UUSCOs
Concentrations > RRUSCOs

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available
Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

Table 4: TAL Metals in Soils

Ecosystems Strategies, Inc.

ESI File: KP14175.20

All data in mg/Kg (parts per million, ppm)		**Sample ID**	**TP-10**		**TP-12**		**TP-14**		**TP-15**	
U= Not Detected at or above indicated value		Sample Date	(2015-08-05)		(2015-08-05)		(2015-08-05)		(2015-08-05)	
Data above SCOs shown in **Bold**		Dilution Factor	2		2		2		2	
Metals, 6010 and 7473	**UUSCO**	**RRUSCO**	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*
Aluminum	NA	NA	10,000		9,700		21,000		18,000	
Antimony	NA	NA	3.3	*J*	1.4	*J*	-		-	
Arsenic	13	16	9.2		**17**		**35**		**19**	
Barium	350	400	180		**460**		300		240	
Beryllium	7.2	72	0.32	*J*	0.43	*J*	0.18	*J*	0.17	*J*
Cadmium	2.5	4.3	0.86	*U*	0.14	*J*	0.86	*U*	0.89	*U*
Calcium	NA	NA	2,300		12,000		9,000		4,900	
Chromium	30	180	18		21		31		25	
Cobalt	NA	NA	6.7		7		13		12	
Copper	50	270	77		48		51		62	
Iron	NA	NA	18000		16000		30000		29000	
Lead	63	400	380		**1,100**		260		60	
Magnesium	NA	NA	3,400		3,200		12,000		12,000	
Manganese	1,600	2,000	380		320		470		370	
Mercury	0.18	0.81	0.26		**1.4**		**2.5**		0.14	
Nickel	30	310	13		12		12		12	
Potassium	NA	NA	1,300		1,000		6,900		4,200	
Selenium	3.90	180	1.7	*U*	0.46	*J*	1.7	*U*	1.8	*U*
Silver	2	180	0.22	*J*	0.51	*J*	0.33	*J*	0.89	*U*
Sodium	NA	NA	62	*J*	130	*J*	110	*J*	150	*J*
Thallium	NA	NA	1.7	*U*	1.9	*U*	1.7	*U*	1.8	*U*
Vanadium	NA	NA	23		28		63		58	
Zinc	109	2,200	290		380		200		150	

Detected Concentrations
Concentrations > UUSCOs
Concentrations > RRUSCOs

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available
Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

Table 4: TAL Metals in Soils

Ecosystems Strategies, Inc.

ESI File: KP14175.20

All data in mg/Kg (parts per million, ppm)		**Sample ID**	**TP-16**	
U= Not Detected at or above indicated value		Sample Date	(2015-08-05)	
Data above SCOs shown in **Bold**		Dilution Factor	2	
Metals, 6010 and 7473	**UUSCO**	**RRUSCO**	*Result*	*Qualifier*
Aluminum	NA	NA	18,000	
Antimony	NA	NA	4.4	*U*
Arsenic	13	16	**19**	
Barium	350	400	160	
Beryllium	7.2	72	0.26	*J*
Cadmium	2.5	4.3	0.87	*U*
Calcium	NA	NA	4,800	
Chromium	30	180	21	
Cobalt	NA	NA	11	
Copper	50	270	45	
Iron	NA	NA	24000	
Lead	63	400	66	
Magnesium	NA	NA	8,200	
Manganese	1,600	2,000	430	
Mercury	0.18	0.81	0.24	
Nickel	30	310	12	
Potassium	NA	NA	3,500	
Selenium	3.90	180	1.7	*U*
Silver	2	180	0.87	*U*
Sodium	NA	NA	97	*J*
Thallium	NA	NA	1.7	*U*
Vanadium	NA	NA	44	
Zinc	109	2,200	120	

Detected Concentrations
Concentrations > UUSCOs
Concentrations > RRUSCOs

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available
Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

Table 5: VOCs in Soil Vapor

Ecosystems Strategies, Inc.

ESI File: KP14175.20

All data in µg/m³	**Sample ID**	**SV-01**		**SV-02**		**SV-03**	
U= Not Detected at or above indicated value	Sample Date	(2015-03-03)		(2015-03-03)		(2015-03-03)	
Data above AGVs shown in **Bold**	Dilution Factor	1		1		1	
VOCs, TO-15	**Guidance Value**	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*
1,1,1-Trichloroethane	NA	1.09	*U*	1.09	*U*	1.09	*U*
1,1,2,2-Tetrachloroethane	NA	1.37	*U*	1.37	*U*	1.37	*U*
1,1,2-Trichloroethane	NA	1.09	*U*	1.09	*U*	1.09	*U*
1,1-Dichloroethane	NA	0.809	*U*	0.809	*U*	0.809	*U*
1,1-Dichloroethene	NA	0.793	*U*	0.793	*U*	0.793	*U*
1,2,4-Trichlorobenzene	NA	1.48	*U*	1.48	*U*	1.48	*U*
1,2,4-Trimethylbenzene	NA	1.8		1.76		1.81	
1,2-Dibromoethane	NA	1.54	*U*	1.54	*U*	1.54	*U*
1,2-Dichlorobenzene	NA	1.2	*U*	1.2	*U*	1.2	*U*
1,2-Dichloroethane	NA	0.809	*U*	0.809	*U*	0.809	*U*
1,2-Dichloropropane	NA	0.924	*U*	0.924	*U*	0.924	*U*
1,3,5-Trimethylbenzene	NA	0.983	*U*	0.983	*U*	0.983	*U*
1,3-Butadiene	NA	9.2		0.442	*U*	19.3	
1,3-Dichlorobenzene	NA	1.2	*U*	1.2	*U*	1.2	*U*
1,4-Dichlorobenzene	NA	3.66		1.2	*U*	1.2	*U*
1,4-Dioxane	NA	0.721	*U*	0.721	*U*	0.721	*U*
2,2,4-Trimethylpentane	NA	0.934	*U*	0.934	*U*	0.934	*U*
2-Butanone	NA	4.28		1.47	*U*	9.2	
2-Hexanone	NA	0.82	*U*	0.82	*U*	0.82	*U*
3-Chloropropene	NA	0.626	*U*	0.626	*U*	0.626	*U*
4-Ethyltoluene	NA	0.983	*U*	0.983	*U*	0.983	*U*
4-Methyl-2-pentanone	NA	2.05	*U*	2.05	*U*	2.05	*U*
Acetone	NA	58.4		53.7		136	
Benzene	NA	4.79		0.639	*U*	6.2	
Benzyl chloride	NA	1.04	*U*	1.04	*U*	1.04	*U*
Bromodichloromethane	NA	1.34	*U*	1.34	*U*	1.34	*U*
Bromoform	NA	2.07	*U*	2.07	*U*	2.07	*U*
Bromomethane	NA	0.777	*U*	0.777	*U*	0.777	*U*
Carbon disulfide	NA	10.7		0.623	*U*	1.87	
Carbon tetrachloride	NA	1.26	*U*	1.26	*U*	1.26	*U*
Chlorobenzene	NA	0.921	*U*	0.921	*U*	0.921	*U*
Chloroethane	NA	0.528	*U*	0.528	*U*	0.528	*U*
Chloroform	NA	0.977	*U*	0.977	*U*	1.73	
Chloromethane	NA	0.413	*U*	0.413	*U*	0.413	*U*
cis-1,2-Dichloroethene	NA	0.793	*U*	0.793	*U*	0.793	*U*
cis-1,3-Dichloropropene	NA	0.908	*U*	0.908	*U*	0.908	*U*
Cyclohexane	NA	3.27		0.688	*U*	0.688	*U*
Dibromochloromethane	NA	1.7	*U*	1.7	*U*	1.7	*U*
Dichlorodifluoromethane	NA	1.06		1.49		1.45	
Ethanol	NA	5.65		4.71	*U*	4.71	*U*
Ethyl Acetate	NA	1.8	*U*	1.8	*U*	1.8	*U*
Ethylbenzene	NA	1.28		0.869	*U*	2.59	
Freon-113	NA	1.53	*U*	1.53	*U*	1.53	*U*
Freon-114	NA	1.4	*U*	1.4	*U*	1.4	*U*
Heptane	NA	47.1		1.06		2.65	
Hexachlorobutadiene	NA	2.13	*U*	2.13	*U*	2.13	*U*
Isopropanol	NA	1.23	*U*	1.23	*U*	1.23	*U*
Methyl tert butyl ether	NA	0.721	*U*	0.721	*U*	0.721	*U*
Methylene chloride	NA	1.74	*U*	1.74	*U*	1.74	*U*
n-Hexane	NA	106		1.11		5.53	
o-Xylene	NA	1.11		0.869	*U*	1.67	
p/m-Xylene	NA	2.61		1.74	*U*	4.86	
Styrene	NA	0.852	*U*	0.852	*U*	0.852	*U*
Tertiary butyl Alcohol	NA	1.52	*U*	1.52	*U*	1.52	*U*
Tetrachloroethene	NA	7.05		1.73		1.36	*U*
Tetrahydrofuran	NA	1.47	*U*	1.47	*U*	1.47	*U*
Toluene	NA	5.43		0.874		12.5	
trans-1,2-Dichloroethene	NA	0.793	*U*	0.793	*U*	0.793	*U*
trans-1,3-Dichloropropene	NA	0.908	*U*	0.908	*U*	0.908	*U*
Trichloroethene	NA	1.07	*U*	1.54		1.07	*U*
Trichlorofluoromethane	NA	1.8		1.37		1.13	
Vinyl bromide	NA	0.874	*U*	0.874	*U*	0.874	*U*
Vinyl chloride	NA	0.511	*U*	0.511	*U*	0.511	*U*

Detected concentrations

Relatively Elevated concentrations

Notes: There are no established guidance values for VOCs in subsurface vapors NA = not available

Result Qualifiers: J = approximate E = estimated B = detected in blank

Table 5: VOCs in Soil Vapor

Ecosystems Strategies, Inc.

ESI File: KP14175.20

All data in µg/m³	**Sample ID**	**SV-04**	
U= Not Detected at or above indicated value	Sample Date	(2015-03-03)	
Data above AGVs shown in **Bold**	Dilution Factor	1	
VOCs, TO-15	**Guidance Value**	*Result*	*Qualifier*
1,1,1-Trichloroethane	NA	1.09	*U*
1,1,2,2-Tetrachloroethane	NA	1.37	*U*
1,1,2-Trichloroethane	NA	1.09	*U*
1,1-Dichloroethane	NA	0.809	*U*
1,1-Dichloroethene	NA	0.793	*U*
1,2,4-Trichlorobenzene	NA	1.48	*U*
1,2,4-Trimethylbenzene	NA	1.91	
1,2-Dibromoethane	NA	1.54	*U*
1,2-Dichlorobenzene	NA	1.2	*U*
1,2-Dichloroethane	NA	0.809	*U*
1,2-Dichloropropane	NA	0.924	*U*
1,3,5-Trimethylbenzene	NA	0.983	*U*
1,3-Butadiene	NA	6.75	
1,3-Dichlorobenzene	NA	1.2	*U*
1,4-Dichlorobenzene	NA	1.2	*U*
1,4-Dioxane	NA	0.721	*U*
2,2,4-Trimethylpentane	NA	0.934	*U*
2-Butanone	NA	7.05	
2-Hexanone	NA	0.82	*U*
3-Chloropropene	NA	0.626	*U*
4-Ethyltoluene	NA	0.983	*U*
4-Methyl-2-pentanone	NA	2.05	*U*
Acetone	NA	182	
Benzene	NA	8.05	
Benzyl chloride	NA	1.04	*U*
Bromodichloromethane	NA	1.34	*U*
Bromoform	NA	2.07	*U*
Bromomethane	NA	0.777	*U*
Carbon disulfide	NA	1.08	
Carbon tetrachloride	NA	1.26	*U*
Chlorobenzene	NA	0.921	*U*
Chloroethane	NA	0.528	*U*
Chloroform	NA	0.977	*U*
Chloromethane	NA	0.413	*U*
cis-1,2-Dichloroethene	NA	0.793	*U*
cis-1,3-Dichloropropene	NA	0.908	*U*
Cyclohexane	NA	0.733	
Dibromochloromethane	NA	1.7	*U*
Dichlorodifluoromethane	NA	1.27	
Ethanol	NA	4.71	*U*
Ethyl Acetate	NA	1.8	*U*
Ethylbenzene	NA	1.13	
Freon-113	NA	1.53	*U*
Freon-114	NA	1.4	*U*
Heptane	NA	1.23	
Hexachlorobutadiene	NA	2.13	*U*
Isopropanol	NA	1.23	*U*
Methyl tert butyl ether	NA	33.9	
Methylene chloride	NA	1.74	*U*
n-Hexane	NA	2.85	
o-Xylene	NA	1.08	
p/m-Xylene	NA	2.39	
Styrene	NA	0.852	*U*
Tertiary butyl Alcohol	NA	1.52	*U*
Tetrachloroethene	NA	1.36	*U*
Tetrahydrofuran	NA	1.47	*U*
Toluene	NA	5.46	
trans-1,2-Dichloroethene	NA	0.793	*U*
trans-1,3-Dichloropropene	NA	0.908	*U*
Trichloroethene	NA	1.07	*U*
Trichlorofluoromethane	NA	1.41	
Vinyl bromide	NA	0.874	*U*
Vinyl chloride	NA	0.511	*U*

Detected concentrations

Relatively Elevated concentrations

Notes: There are no established guidance values for VOCs in subsurface vapors NA = not available

Result Qualifiers: J = approximate E = estimated B = detected in blank

ANALYTICAL REPORT

Lab Number:	L1519118
Client:	Ecosystems Strategies, Inc. 24 Davis Avenue Poughkeepsie, NY 12603
ATTN:	Christine Arnone
Phone:	(845) 452-1658
Project Name:	KP14175
Project Number:	KP14175
Report Date:	08/12/15

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

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508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: KP14175
Project Number: KP14175

Lab Number: L1519118
Report Date: 08/12/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1519118-01	TP-10	SOIL	PEEKSKILL	08/05/15 09:30	08/11/15
L1519118-02	TP-12	SOIL	PEEKSKILL	08/05/15 10:15	08/11/15
L1519118-03	TP-14	SOIL	PEEKSKILL	08/05/15 11:00	08/11/15
L1519118-04	TP-15	SOIL	PEEKSKILL	08/05/15 11:45	08/11/15
L1519118-05	TP-16	SOIL	PEEKSKILL	08/05/15 12:30	08/11/15

Project Name: KP14175
Project Number: KP14175

Lab Number: L1519118
Report Date: 08/12/15

NJ DEP Data of Known Quality Protocols
Conformance/Non-Conformance
Summary Questionnaire

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 NJDEP Data of Known Quality performance standards?	YES
1a	Were the method specified handling, preservation, and holding time requirements met?	YES
1b	EPH Method: Was the EPH Method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?	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
3	Were all samples received at an appropriate temperature (4 ± 2° C)?	YES
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	NO
5a	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	YES
5b	Were these reporting limits met?	YES
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 DKQP documents and/or site-specific QAPP?	NO
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	YES

Note: 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 "Data of Known Quality".

Project Name: KP14175 **Lab Number:** L1519118
Project Number: KP14175 **Report Date:** 08/12/15

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	KP14175	**Lab Number:**	L1519118
Project Number:	KP14175	**Report Date:**	08/12/15

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

DKQP Related Narratives

PAHs by SIM

L1519118-04: The sample has elevated detection limits due to the dilution required by the sample matrix.

In reference to question 4:

WG811222-2/-3: One or more compounds failed to meet the DKQP recovery and/or RPD limits. Please refer to the QC section of the report for specific details.

In reference to question 6:

At the client's request, all submitted samples were not analyzed for the full DKQP list of constituents identified in the method specific analyte list presented in the DKQP documents.

Pesticides

In reference to question 4:

L1519118-02 through -05: One or more dual column RPDs are above the acceptance criteria. Please refer to the sample results and/or QC section of the report for specific details.

WG811207-2/-3: One or more compounds failed to meet the DKQP recovery and/or RPD limits. Please refer to the QC section of the report for specific details.

Metals

L1519118-01 through -05 have elevated detection limits for all elements, with the exception of mercury, due to the dilutions required by matrix interferences encountered during analysis.

In reference to question 4:

The WG811248-4 MS recoveries for aluminum (0%), iron (0%), lead (1860%), manganese (0%), and zinc (370%), performed on L1519118-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

Project Name: KP14175 **Lab Number:** L1519118
Project Number: KP14175 **Report Date:** 08/12/15

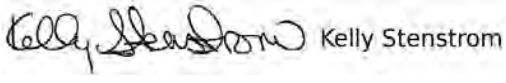
Case Narrative (continued)

The WG811248-4 MS recoveries, performed on L1519118-01, are outside the acceptance criteria for antimony (180%), chromium (69%), magnesium (35%), and thallium (73%). A post digestion spike was performed and yielded an unacceptable recoveries for thallium (60%); all other compounds were within acceptance criteria. This has been attributed to sample matrix.

The WG811231-4 MS recovery, performed on L1519118-01, is outside the acceptance criteria for mercury (165%). A post digestion spike was performed and was within acceptance criteria.

The WG811248-3 Laboratory Duplicate RPDs, performed on L1519118-01, are outside the acceptance criteria for lead (23%) and zinc (27%). The elevated RPDs have been attributed to the non-homogeneous nature of the sample utilized for the laboratory duplicate.

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. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Kelly Stenstrom

Title: Technical Director/Representative Date: 08/12/15

ORGANICS

SEMIVOLATILES

Project Name: KP14175 **Lab Number:** L1519118

Project Number: KP14175 **Report Date:** 08/12/15

SAMPLE RESULTS

Lab ID: L1519118-04 D
Client ID: TP-15
Sample Location: PEEKSKILL
Matrix: Soil
Analytical Method: 1,8270D-SIM
Analytical Date: 08/12/15 12:06
Analyst: MW
Percent Solids: 90%

Date Collected: 08/05/15 11:45
Date Received: 08/11/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 08/12/15 01:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.034	J	mg/kg	0.037	0.0078	5
Fluoranthene	0.89		mg/kg	0.037	0.0026	5
Naphthalene	0.16		mg/kg	0.037	0.0066	5
2-Methylnaphthalene	0.062		mg/kg	0.037	0.010	5
Benzo(a)anthracene	0.38		mg/kg	0.037	0.0035	5
Benzo(a)pyrene	0.33		mg/kg	0.037	0.0044	5
Benzo(b)fluoranthene	0.42		mg/kg	0.037	0.0035	5
Benzo(k)fluoranthene	0.17		mg/kg	0.037	0.0033	5
Chrysene	0.41		mg/kg	0.037	0.0028	5
Acenaphthylene	0.11		mg/kg	0.037	0.0046	5
Anthracene	0.15		mg/kg	0.037	0.0030	5
Benzo(ghi)perylene	0.22		mg/kg	0.037	0.0031	5
Fluorene	0.076		mg/kg	0.037	0.0044	5
Phenanthrene	0.79		mg/kg	0.037	0.0031	5
Dibenzo(a,h)anthracene	0.065		mg/kg	0.037	0.0037	5
Indeno(1,2,3-cd)pyrene	0.18		mg/kg	0.037	0.0044	5
Pyrene	0.73		mg/kg	0.037	0.0026	5
2-Chloronaphthalene	ND		mg/kg	0.037	0.0048	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	75		30-130
2-Fluorobiphenyl	75		30-130
4-Terphenyl-d14	72		30-130

Project Name: KP14175 **Lab Number:** L1519118

Project Number: KP14175 **Report Date:** 08/12/15

SAMPLE RESULTS

Lab ID: L1519118-05
Client ID: TP-16
Sample Location: PEEKSKILL
Matrix: Soil
Analytical Method: 1,8270D-SIM
Analytical Date: 08/12/15 13:46
Analyst: MW
Percent Solids: 89%

Date Collected: 08/05/15 12:30
Date Received: 08/11/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 08/12/15 01:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.011		mg/kg	0.0074	0.0016	1
Fluoranthene	0.34		mg/kg	0.0074	0.00052	1
Naphthalene	0.013		mg/kg	0.0074	0.0013	1
2-Methylnaphthalene	0.0074		mg/kg	0.0074	0.0021	1
Benzo(a)anthracene	0.22		mg/kg	0.0074	0.00070	1
Benzo(a)pyrene	0.22		mg/kg	0.0074	0.00089	1
Benzo(b)fluoranthene	0.28		mg/kg	0.0074	0.00070	1
Benzo(k)fluoranthene	0.10		mg/kg	0.0074	0.00067	1
Chrysene	0.21		mg/kg	0.0074	0.00056	1
Acenaphthylene	0.049		mg/kg	0.0074	0.00092	1
Anthracene	0.069		mg/kg	0.0074	0.00059	1
Benzo(ghi)perylene	0.14		mg/kg	0.0074	0.00063	1
Fluorene	0.015		mg/kg	0.0074	0.00089	1
Phenanthrene	0.17		mg/kg	0.0074	0.00063	1
Dibenzo(a,h)anthracene	0.043		mg/kg	0.0074	0.00074	1
Indeno(1,2,3-cd)pyrene	0.16		mg/kg	0.0074	0.00089	1
Pyrene	0.30		mg/kg	0.0074	0.00052	1
2-Chloronaphthalene	ND		mg/kg	0.0074	0.00096	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	60		30-130
2-Fluorobiphenyl	68		30-130
4-Terphenyl-d14	68		30-130

Project Name: KP14175 **Lab Number:** L1519118

Project Number: KP14175 **Report Date:** 08/12/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 08/12/15 10:51
Analyst: MW

Extraction Method: EPA 3546
Extraction Date: 08/12/15 01:14

Parameter	Result	Qualifier	Units	RL	MDL
PAHs by GC/MS-SIM - Westborough Lab for sample(s): 04-05 Batch: WG811222-1					
Acenaphthene	ND		mg/kg	0.0066	0.0014
Fluoranthene	ND		mg/kg	0.0066	0.00046
Naphthalene	ND		mg/kg	0.0066	0.0012
2-Methylnaphthalene	ND		mg/kg	0.0066	0.0019
Benzo(a)anthracene	ND		mg/kg	0.0066	0.00062
Benzo(a)pyrene	ND		mg/kg	0.0066	0.00079
Benzo(b)fluoranthene	ND		mg/kg	0.0066	0.00062
Benzo(k)fluoranthene	ND		mg/kg	0.0066	0.00059
Chrysene	ND		mg/kg	0.0066	0.00049
Acenaphthylene	ND		mg/kg	0.0066	0.00082
Anthracene	ND		mg/kg	0.0066	0.00052
Benzo(ghi)perylene	ND		mg/kg	0.0066	0.00056
Fluorene	ND		mg/kg	0.0066	0.00079
Phenanthrene	ND		mg/kg	0.0066	0.00056
Dibenzo(a,h)anthracene	ND		mg/kg	0.0066	0.00066
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.0066	0.00079
Pyrene	ND		mg/kg	0.0066	0.00046
2-Chloronaphthalene	ND		mg/kg	0.0066	0.00085

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	86		30-130
2-Fluorobiphenyl	82		30-130
4-Terphenyl-d14	90		30-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: KP14175
Project Number: KP14175

Lab Number: L1519118
Report Date: 08/12/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PAHs by GC/MS-SIM - Westborough Lab Associated sample(s): 04-05 Batch: WG811222-2 WG811222-3								
Acenaphthene	**59**	Q	**55**	Q	70-130	7		30
Fluoranthene	**61**	Q	**56**	Q	70-130	9		30
Naphthalene	**58**	Q	**55**	Q	70-130	5		30
2-Methylnaphthalene	**61**	Q	**58**	Q	70-130	5		30
Benzo(a)anthracene	**58**	Q	**54**	Q	70-130	7		30
Benzo(a)pyrene	**58**	Q	**42**	Q	70-130	**32**	Q	30
Benzo(b)fluoranthene	**54**	Q	**50**	Q	70-130	8		30
Benzo(k)fluoranthene	**58**	Q	**53**	Q	70-130	9		30
Chrysene	**57**	Q	**53**	Q	70-130	7		30
Acenaphthylene	**64**	Q	**60**	Q	70-130	6		30
Anthracene	**63**	Q	**58**	Q	70-130	8		30
Benzo(ghi)perylene	**57**	Q	**53**	Q	70-130	7		30
Fluorene	**62**	Q	**57**	Q	70-130	8		30
Phenanthrene	**58**	Q	**54**	Q	70-130	7		30
Dibenzo(a,h)anthracene	**58**	Q	**54**	Q	70-130	7		30
Indeno(1,2,3-cd)pyrene	**54**	Q	**50**	Q	70-130	8		30
Pyrene	**61**	Q	**56**	Q	70-130	9		30
2-Chloronaphthalene	**61**	Q	**58**	Q	70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: KP14175
Project Number: KP14175

Lab Number: L1519118
Report Date: 08/12/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PAHs by GC/MS-SIM - Westborough Lab Associated sample(s): 04-05 Batch: WG811222-2 WG811222-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	65		61		30-130
2-Fluorobiphenyl	65		61		30-130
4-Terphenyl-d14	67		62		30-130

PESTICIDES

Project Name: KP14175 **Lab Number:** L1519118

Project Number: KP14175 **Report Date:** 08/12/15

SAMPLE RESULTS

Lab ID: L1519118-01
Client ID: TP-10
Sample Location: PEEKSKILL
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 08/12/15 11:10
Analyst: AL
Percent Solids: 90%

Date Collected: 08/05/15 09:30
Date Received: 08/11/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 08/12/15 01:15
Cleanup Method: EPA 3620B
Cleanup Date: 08/12/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Delta-BHC	ND		mg/kg	0.00175	0.00034	1	A
Lindane	ND		mg/kg	0.00072	0.00032	1	A
Alpha-BHC	ND		mg/kg	0.00072	0.00020	1	A
Beta-BHC	ND		mg/kg	0.00175	0.00066	1	A
Heptachlor	ND		mg/kg	0.00087	0.00039	1	A
Aldrin	ND		mg/kg	0.00175	0.00061	1	A
Heptachlor epoxide	ND		mg/kg	0.00328	0.00098	1	A
Endrin	0.00154		mg/kg	0.00072	0.00029	1	A
Endrin aldehyde	ND		mg/kg	0.00219	0.00076	1	A
Endrin ketone	ND		mg/kg	0.00175	0.00045	1	A
Dieldrin	ND		mg/kg	0.00109	0.00054	1	A
4,4'-DDE	0.00342		mg/kg	0.00175	0.00040	1	A
4,4'-DDD	ND		mg/kg	0.00175	0.00062	1	A
4,4'-DDT	0.0254		mg/kg	0.00328	0.00141	1	A
Endosulfan I	ND		mg/kg	0.00175	0.00041	1	A
Endosulfan II	ND		mg/kg	0.00175	0.00058	1	A
Endosulfan sulfate	ND		mg/kg	0.00072	0.00034	1	A
Methoxychlor	ND		mg/kg	0.00328	0.00102	1	A
Toxaphene	ND		mg/kg	0.0328	0.00918	1	A
Chlordane	ND		mg/kg	0.0142	0.00579	1	A
cis-Chlordane	ND		mg/kg	0.00219	0.00060	1	A
trans-Chlordane	ND		mg/kg	0.00219	0.00057	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	73		30-150	B
2,4,5,6-Tetrachloro-m-xylene	101		30-150	A
Decachlorobiphenyl	97		30-150	A

Project Name: KP14175 **Lab Number:** L1519118

Project Number: KP14175 **Report Date:** 08/12/15

SAMPLE RESULTS

Lab ID: L1519118-02
Client ID: TP-12
Sample Location: PEEKSKILL
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 08/12/15 11:36
Analyst: AL
Percent Solids: 83%

Date Collected: 08/05/15 10:15
Date Received: 08/11/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 08/12/15 01:15
Cleanup Method: EPA 3620B
Cleanup Date: 08/12/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Delta-BHC	ND		mg/kg	0.00188	0.00036	1	A
Lindane	ND		mg/kg	0.00078	0.00035	1	A
Alpha-BHC	ND		mg/kg	0.00078	0.00022	1	A
Beta-BHC	ND		mg/kg	0.00188	0.00071	1	A
Heptachlor	ND		mg/kg	0.00094	0.00042	1	A
Aldrin	ND		mg/kg	0.00188	0.00066	1	A
Heptachlor epoxide	ND		mg/kg	0.00353	0.00106	1	A
Endrin	0.00358	PI	mg/kg	0.00078	0.00032	1	A
Endrin aldehyde	ND		mg/kg	0.00235	0.00082	1	A
Endrin ketone	ND		mg/kg	0.00188	0.00048	1	A
Dieldrin	ND		mg/kg	0.00118	0.00058	1	A
4,4'-DDE	0.00914		mg/kg	0.00188	0.00043	1	A
4,4'-DDD	ND		mg/kg	0.00188	0.00067	1	A
4,4'-DDT	0.0202	P	mg/kg	0.00353	0.00151	1	A
Endosulfan I	ND		mg/kg	0.00188	0.00044	1	A
Endosulfan II	ND		mg/kg	0.00188	0.00062	1	A
Endosulfan sulfate	ND		mg/kg	0.00078	0.00037	1	A
Methoxychlor	ND		mg/kg	0.00353	0.00110	1	A
Toxaphene	ND		mg/kg	0.0353	0.00988	1	A
Chlordane	ND		mg/kg	0.0153	0.00623	1	A
cis-Chlordane	ND		mg/kg	0.00235	0.00065	1	A
trans-Chlordane	ND		mg/kg	0.00235	0.00062	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	77		30-150	B
2,4,5,6-Tetrachloro-m-xylene	97		30-150	A
Decachlorobiphenyl	133		30-150	A

Project Name: KP14175 **Lab Number:** L1519118

Project Number: KP14175 **Report Date:** 08/12/15

SAMPLE RESULTS

Lab ID: L1519118-03
Client ID: TP-14
Sample Location: PEEKSKILL
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 08/12/15 11:49
Analyst: AL
Percent Solids: 91%

Date Collected: 08/05/15 11:00
Date Received: 08/11/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 08/12/15 01:15
Cleanup Method: EPA 3620B
Cleanup Date: 08/12/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Delta-BHC	ND		mg/kg	0.00173	0.00033	1	A
Lindane	ND		mg/kg	0.00072	0.00032	1	A
Alpha-BHC	ND		mg/kg	0.00072	0.00020	1	A
Beta-BHC	ND		mg/kg	0.00173	0.00065	1	A
Heptachlor	0.00066	J	mg/kg	0.00086	0.00038	1	A
Aldrin	ND		mg/kg	0.00173	0.00060	1	A
Heptachlor epoxide	0.00187	J	mg/kg	0.00324	0.00097	1	A
Endrin	0.00634	P	mg/kg	0.00072	0.00029	1	B
Endrin aldehyde	ND		mg/kg	0.00216	0.00075	1	A
Endrin ketone	ND		mg/kg	0.00173	0.00044	1	A
Dieldrin	ND		mg/kg	0.00108	0.00054	1	A
4,4'-DDE	0.00303	P	mg/kg	0.00173	0.00040	1	A
4,4'-DDD	ND		mg/kg	0.00173	0.00061	1	A
4,4'-DDT	0.0256		mg/kg	0.00324	0.00139	1	A
Endosulfan I	ND		mg/kg	0.00173	0.00040	1	A
Endosulfan II	ND		mg/kg	0.00173	0.00057	1	A
Endosulfan sulfate	ND		mg/kg	0.00072	0.00034	1	A
Methoxychlor	ND		mg/kg	0.00324	0.00101	1	A
Toxaphene	ND		mg/kg	0.0324	0.00907	1	A
Chlordane	0.0461		mg/kg	0.0140	0.00572	1	B
cis-Chlordane	0.0163		mg/kg	0.00216	0.00060	1	B
trans-Chlordane	0.00664		mg/kg	0.00216	0.00057	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	91		30-150	B
2,4,5,6-Tetrachloro-m-xylene	97		30-150	A
Decachlorobiphenyl	142		30-150	A

Project Name: KP14175 **Lab Number:** L1519118

Project Number: KP14175 **Report Date:** 08/12/15

SAMPLE RESULTS

Lab ID: L1519118-04
Client ID: TP-15
Sample Location: PEEKSKILL
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 08/12/15 12:02
Analyst: AL
Percent Solids: 90%

Date Collected: 08/05/15 11:45
Date Received: 08/11/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 08/12/15 01:15
Cleanup Method: EPA 3620B
Cleanup Date: 08/12/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Delta-BHC	ND		mg/kg	0.00173	0.00033	1	A
Lindane	ND		mg/kg	0.00072	0.00032	1	A
Alpha-BHC	ND		mg/kg	0.00072	0.00020	1	A
Beta-BHC	ND		mg/kg	0.00173	0.00065	1	A
Heptachlor	0.00365		mg/kg	0.00086	0.00038	1	B
Aldrin	ND		mg/kg	0.00173	0.00060	1	A
Heptachlor epoxide	0.00368	PI	mg/kg	0.00324	0.00097	1	B
Endrin	ND		mg/kg	0.00072	0.00029	1	A
Endrin aldehyde	ND		mg/kg	0.00216	0.00075	1	A
Endrin ketone	ND		mg/kg	0.00173	0.00044	1	A
Dieldrin	ND		mg/kg	0.00108	0.00054	1	A
4,4'-DDE	ND		mg/kg	0.00173	0.00040	1	A
4,4'-DDD	ND		mg/kg	0.00173	0.00061	1	A
4,4'-DDT	0.00481		mg/kg	0.00324	0.00139	1	B
Endosulfan I	ND		mg/kg	0.00173	0.00040	1	A
Endosulfan II	ND		mg/kg	0.00173	0.00057	1	A
Endosulfan sulfate	ND		mg/kg	0.00072	0.00034	1	A
Methoxychlor	ND		mg/kg	0.00324	0.00101	1	A
Toxaphene	ND		mg/kg	0.0324	0.00908	1	A
Chlordane	0.330		mg/kg	0.0140	0.00573	1	A
cis-Chlordane	0.0471	PI	mg/kg	0.00216	0.00060	1	B
trans-Chlordane	0.0549		mg/kg	0.00216	0.00057	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	89		30-150	B
2,4,5,6-Tetrachloro-m-xylene	93		30-150	A
Decachlorobiphenyl	115		30-150	A

Project Name: KP14175 **Lab Number:** L1519118

Project Number: KP14175 **Report Date:** 08/12/15

SAMPLE RESULTS

Lab ID: L1519118-05
Client ID: TP-16
Sample Location: PEEKSKILL
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 08/12/15 12:16
Analyst: AL
Percent Solids: 89%

Date Collected: 08/05/15 12:30
Date Received: 08/11/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 08/12/15 01:15
Cleanup Method: EPA 3620B
Cleanup Date: 08/12/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Delta-BHC	ND		mg/kg	0.00176	0.00034	1	A
Lindane	ND		mg/kg	0.00073	0.00032	1	A
Alpha-BHC	ND		mg/kg	0.00073	0.00020	1	A
Beta-BHC	0.00118	J	mg/kg	0.00176	0.00067	1	A
Heptachlor	0.0108		mg/kg	0.00088	0.00039	1	A
Aldrin	ND		mg/kg	0.00176	0.00062	1	A
Heptachlor epoxide	0.00342	PI	mg/kg	0.00331	0.00099	1	B
Endrin	ND		mg/kg	0.00073	0.00030	1	A
Endrin aldehyde	ND		mg/kg	0.00221	0.00077	1	A
Endrin ketone	ND		mg/kg	0.00176	0.00045	1	A
Dieldrin	ND		mg/kg	0.00110	0.00055	1	A
4,4'-DDE	ND		mg/kg	0.00176	0.00040	1	A
4,4'-DDD	ND		mg/kg	0.00176	0.00063	1	A
4,4'-DDT	0.00837	P	mg/kg	0.00331	0.00142	1	B
Endosulfan I	ND		mg/kg	0.00176	0.00041	1	A
Endosulfan II	ND		mg/kg	0.00176	0.00059	1	A
Endosulfan sulfate	ND		mg/kg	0.00073	0.00035	1	A
Methoxychlor	ND		mg/kg	0.00331	0.00103	1	A
Toxaphene	ND		mg/kg	0.0331	0.00927	1	A
Chlordane	0.561		mg/kg	0.0143	0.00585	1	B
cis-Chlordane	0.0861	PI	mg/kg	0.00221	0.00061	1	B
trans-Chlordane	0.103		mg/kg	0.00221	0.00058	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	B
Decachlorobiphenyl	90		30-150	B
2,4,5,6-Tetrachloro-m-xylene	95		30-150	A
Decachlorobiphenyl	102		30-150	A

Project Name: KP14175 **Lab Number:** L1519118

Project Number: KP14175 **Report Date:** 08/12/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 08/12/15 09:11
Analyst: AL

Extraction Method: EPA 3546
Extraction Date: 08/12/15 00:21
Cleanup Method: EPA 3620B
Cleanup Date: 08/12/15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Pesticides by GC - Westborough Lab for sample(s): 01-05 Batch: WG811207-1						
Delta-BHC	ND		mg/kg	0.00152	0.00029	A
Lindane	ND		mg/kg	0.00063	0.00028	A
Alpha-BHC	ND		mg/kg	0.00063	0.00018	A
Beta-BHC	ND		mg/kg	0.00152	0.00057	A
Heptachlor	ND		mg/kg	0.00076	0.00034	A
Aldrin	ND		mg/kg	0.00152	0.00053	A
Heptachlor epoxide	ND		mg/kg	0.00285	0.00085	A
Endrin	ND		mg/kg	0.00063	0.00026	A
Endrin aldehyde	ND		mg/kg	0.00190	0.00066	A
Endrin ketone	ND		mg/kg	0.00152	0.00039	A
Dieldrin	ND		mg/kg	0.00095	0.00047	A
4,4'-DDE	ND		mg/kg	0.00152	0.00035	A
4,4'-DDD	ND		mg/kg	0.00152	0.00054	A
4,4'-DDT	ND		mg/kg	0.00285	0.00122	A
Endosulfan I	ND		mg/kg	0.00152	0.00036	A
Endosulfan II	ND		mg/kg	0.00152	0.00050	A
Endosulfan sulfate	ND		mg/kg	0.00063	0.00030	A
Methoxychlor	ND		mg/kg	0.00285	0.00088	A
Toxaphene	ND		mg/kg	0.0285	0.00799	A
Chlordane	ND		mg/kg	0.0124	0.00504	A
cis-Chlordane	ND		mg/kg	0.00190	0.00053	A
trans-Chlordane	ND		mg/kg	0.00190	0.00050	A

Project Name: KP14175 **Lab Number:** L1519118

Project Number: KP14175 **Report Date:** 08/12/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 08/12/15 09:11
Analyst: AL

Extraction Method: EPA 3546
Extraction Date: 08/12/15 00:21
Cleanup Method: EPA 3620B
Cleanup Date: 08/12/15

Parameter	Result	Qualifier	Units	RL	MDL
Pesticides by GC - Westborough Lab for sample(s): 01-05 Batch: WG811207-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	117		30-150	B
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	106		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: KP14175

Project Number: KP14175

Lab Number: L1519118

Report Date: 08/12/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Pesticides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG811207-2 WG811207-3									
Delta-BHC	74		88		40-140	17		30	A
Lindane	88		98		40-140	11		30	A
Alpha-BHC	88		102		40-140	15		30	A
Beta-BHC	84		101		40-140	18		30	A
Heptachlor	96		116		40-140	19		30	A
Aldrin	93		107		40-140	14		30	A
Heptachlor epoxide	88		103		40-140	16		30	A
Endrin	92		110		40-140	18		30	A
Endrin aldehyde	74		89		40-140	18		30	A
Endrin ketone	77		91		40-140	17		30	A
Dieldrin	94		110		40-140	16		30	A
4,4'-DDE	86		104		40-140	19		30	A
4,4'-DDD	103		120		40-140	15		30	A
4,4'-DDT	97		115		40-140	17		30	A
Endosulfan I	88		104		40-140	17		30	A
Endosulfan II	91		61		40-140	**39**	Q	30	A
Endosulfan sulfate	71		83		40-140	16		30	A
Methoxychlor	87		107		40-140	21		30	A
cis-Chlordane	87		101		40-140	15		30	A
trans-Chlordane	89		102		40-140	14		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: KP14175
Project Number: KP14175

Lab Number: L1519118
Report Date: 08/12/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Pesticides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG811207-2 WG811207-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		88		30-150	B
Decachlorobiphenyl	98		110		30-150	B
2,4,5,6-Tetrachloro-m-xylene	79		85		30-150	A
Decachlorobiphenyl	83		104		30-150	A

METALS

Project Name: KP14175 **Lab Number:** L1519118

Project Number: KP14175 **Report Date:** 08/12/15

SAMPLE RESULTS

Lab ID: L1519118-01 Date Collected: 08/05/15 09:30

Client ID: TP-10 Date Received: 08/11/15

Sample Location: PEEKSKILL Field Prep: Not Specified

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	10000		mg/kg	8.6	1.7	2	08/12/15 04:25	08/12/15 12:29	EPA 3050B	1,6010C	JH
Antimony, Total	3.3	J	mg/kg	4.3	0.69	2	08/12/15 04:25	08/12/15 12:29	EPA 3050B	1,6010C	JH
Arsenic, Total	9.2		mg/kg	0.86	0.17	2	08/12/15 04:25	08/12/15 12:29	EPA 3050B	1,6010C	JH
Barium, Total	180		mg/kg	0.86	0.26	2	08/12/15 04:25	08/12/15 12:29	EPA 3050B	1,6010C	JH
Beryllium, Total	0.32	J	mg/kg	0.43	0.09	2	08/12/15 04:25	08/12/15 12:29	EPA 3050B	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.86	0.06	2	08/12/15 04:25	08/12/15 12:29	EPA 3050B	1,6010C	JH
Calcium, Total	2300		mg/kg	8.6	2.6	2	08/12/15 04:25	08/12/15 12:29	EPA 3050B	1,6010C	JH
Chromium, Total	18		mg/kg	0.86	0.17	2	08/12/15 04:25	08/12/15 12:29	EPA 3050B	1,6010C	JH
Cobalt, Total	6.7		mg/kg	1.7	0.43	2	08/12/15 04:25	08/12/15 12:29	EPA 3050B	1,6010C	JH
Copper, Total	77		mg/kg	0.86	0.17	2	08/12/15 04:25	08/12/15 12:29	EPA 3050B	1,6010C	JH
Iron, Total	18000		mg/kg	4.3	1.7	2	08/12/15 04:25	08/12/15 12:29	EPA 3050B	1,6010C	JH
Lead, Total	380		mg/kg	4.3	0.17	2	08/12/15 04:25	08/12/15 12:29	EPA 3050B	1,6010C	JH
Magnesium, Total	3400		mg/kg	8.6	0.86	2	08/12/15 04:25	08/12/15 12:29	EPA 3050B	1,6010C	JH
Manganese, Total	380		mg/kg	0.86	0.17	2	08/12/15 04:25	08/12/15 12:29	EPA 3050B	1,6010C	JH
Mercury, Total	0.26		mg/kg	0.07	0.02	1	08/12/15 08:55	08/12/15 12:10	EPA 7471B	1,7471B	MC
Nickel, Total	13		mg/kg	2.2	0.34	2	08/12/15 04:25	08/12/15 12:29	EPA 3050B	1,6010C	JH
Potassium, Total	1300		mg/kg	220	34.	2	08/12/15 04:25	08/12/15 12:29	EPA 3050B	1,6010C	JH
Selenium, Total	ND		mg/kg	1.7	0.26	2	08/12/15 04:25	08/12/15 12:29	EPA 3050B	1,6010C	JH
Silver, Total	0.22	J	mg/kg	0.86	0.17	2	08/12/15 04:25	08/12/15 12:29	EPA 3050B	1,6010C	JH
Sodium, Total	62	J	mg/kg	170	26.	2	08/12/15 04:25	08/12/15 12:29	EPA 3050B	1,6010C	JH
Thallium, Total	ND		mg/kg	1.7	0.34	2	08/12/15 04:25	08/12/15 12:29	EPA 3050B	1,6010C	JH
Vanadium, Total	23		mg/kg	0.86	0.09	2	08/12/15 04:25	08/12/15 12:29	EPA 3050B	1,6010C	JH
Zinc, Total	290		mg/kg	4.3	0.60	2	08/12/15 04:25	08/12/15 12:29	EPA 3050B	1,6010C	JH

Project Name: KP14175 **Lab Number:** L1519118

Project Number: KP14175 **Report Date:** 08/12/15

SAMPLE RESULTS

Lab ID: L1519118-02 Date Collected: 08/05/15 10:15

Client ID: TP-12 Date Received: 08/11/15

Sample Location: PEEKSKILL Field Prep: Not Specified

Matrix: Soil

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	9700		mg/kg	9.5	1.9	2	08/12/15 04:25	08/12/15 12:47	EPA 3050B	1,6010C	JH
Antimony, Total	1.4	J	mg/kg	4.8	0.76	2	08/12/15 04:25	08/12/15 12:47	EPA 3050B	1,6010C	JH
Arsenic, Total	17		mg/kg	0.95	0.19	2	08/12/15 04:25	08/12/15 12:47	EPA 3050B	1,6010C	JH
Barium, Total	460		mg/kg	0.95	0.28	2	08/12/15 04:25	08/12/15 12:47	EPA 3050B	1,6010C	JH
Beryllium, Total	0.43	J	mg/kg	0.48	0.10	2	08/12/15 04:25	08/12/15 12:47	EPA 3050B	1,6010C	JH
Cadmium, Total	0.14	J	mg/kg	0.95	0.07	2	08/12/15 04:25	08/12/15 12:47	EPA 3050B	1,6010C	JH
Calcium, Total	12000		mg/kg	9.5	2.8	2	08/12/15 04:25	08/12/15 12:47	EPA 3050B	1,6010C	JH
Chromium, Total	21		mg/kg	0.95	0.19	2	08/12/15 04:25	08/12/15 12:47	EPA 3050B	1,6010C	JH
Cobalt, Total	7.0		mg/kg	1.9	0.48	2	08/12/15 04:25	08/12/15 12:47	EPA 3050B	1,6010C	JH
Copper, Total	48		mg/kg	0.95	0.19	2	08/12/15 04:25	08/12/15 12:47	EPA 3050B	1,6010C	JH
Iron, Total	16000		mg/kg	4.8	1.9	2	08/12/15 04:25	08/12/15 12:47	EPA 3050B	1,6010C	JH
Lead, Total	1100		mg/kg	4.8	0.19	2	08/12/15 04:25	08/12/15 12:47	EPA 3050B	1,6010C	JH
Magnesium, Total	3200		mg/kg	9.5	0.95	2	08/12/15 04:25	08/12/15 12:47	EPA 3050B	1,6010C	JH
Manganese, Total	320		mg/kg	0.95	0.19	2	08/12/15 04:25	08/12/15 12:47	EPA 3050B	1,6010C	JH
Mercury, Total	1.4		mg/kg	0.08	0.02	1	08/12/15 08:55	08/12/15 12:18	EPA 7471B	1,7471B	MC
Nickel, Total	12		mg/kg	2.4	0.38	2	08/12/15 04:25	08/12/15 12:47	EPA 3050B	1,6010C	JH
Potassium, Total	1000		mg/kg	240	38.	2	08/12/15 04:25	08/12/15 12:47	EPA 3050B	1,6010C	JH
Selenium, Total	0.46	J	mg/kg	1.9	0.28	2	08/12/15 04:25	08/12/15 12:47	EPA 3050B	1,6010C	JH
Silver, Total	0.51	J	mg/kg	0.95	0.19	2	08/12/15 04:25	08/12/15 12:47	EPA 3050B	1,6010C	JH
Sodium, Total	130	J	mg/kg	190	28.	2	08/12/15 04:25	08/12/15 12:47	EPA 3050B	1,6010C	JH
Thallium, Total	ND		mg/kg	1.9	0.38	2	08/12/15 04:25	08/12/15 12:47	EPA 3050B	1,6010C	JH
Vanadium, Total	28		mg/kg	0.95	0.10	2	08/12/15 04:25	08/12/15 12:47	EPA 3050B	1,6010C	JH
Zinc, Total	380		mg/kg	4.8	0.66	2	08/12/15 04:25	08/12/15 12:47	EPA 3050B	1,6010C	JH

Project Name: KP14175 **Lab Number:** L1519118

Project Number: KP14175 **Report Date:** 08/12/15

SAMPLE RESULTS

Lab ID: L1519118-03 Date Collected: 08/05/15 11:00

Client ID: TP-14 Date Received: 08/11/15

Sample Location: PEEKSKILL Field Prep: Not Specified

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	21000		mg/kg	8.6	1.7	2	08/12/15 04:25	08/12/15 13:07	EPA 3050B	1,6010C	JH
Antimony, Total	ND		mg/kg	21	3.4	10	08/12/15 04:25	08/12/15 13:53	EPA 3050B	1,6010C	JH
Arsenic, Total	35		mg/kg	0.86	0.17	2	08/12/15 04:25	08/12/15 13:07	EPA 3050B	1,6010C	JH
Barium, Total	300		mg/kg	0.86	0.26	2	08/12/15 04:25	08/12/15 13:07	EPA 3050B	1,6010C	JH
Beryllium, Total	0.18	J	mg/kg	0.43	0.09	2	08/12/15 04:25	08/12/15 13:07	EPA 3050B	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.86	0.06	2	08/12/15 04:25	08/12/15 13:07	EPA 3050B	1,6010C	JH
Calcium, Total	9000		mg/kg	8.6	2.6	2	08/12/15 04:25	08/12/15 13:07	EPA 3050B	1,6010C	JH
Chromium, Total	31		mg/kg	0.86	0.17	2	08/12/15 04:25	08/12/15 13:07	EPA 3050B	1,6010C	JH
Cobalt, Total	13		mg/kg	1.7	0.43	2	08/12/15 04:25	08/12/15 13:07	EPA 3050B	1,6010C	JH
Copper, Total	51		mg/kg	0.86	0.17	2	08/12/15 04:25	08/12/15 13:07	EPA 3050B	1,6010C	JH
Iron, Total	30000		mg/kg	4.3	1.7	2	08/12/15 04:25	08/12/15 13:07	EPA 3050B	1,6010C	JH
Lead, Total	260		mg/kg	4.3	0.17	2	08/12/15 04:25	08/12/15 13:07	EPA 3050B	1,6010C	JH
Magnesium, Total	12000		mg/kg	8.6	0.86	2	08/12/15 04:25	08/12/15 13:07	EPA 3050B	1,6010C	JH
Manganese, Total	470		mg/kg	0.86	0.17	2	08/12/15 04:25	08/12/15 13:07	EPA 3050B	1,6010C	JH
Mercury, Total	2.5		mg/kg	0.07	0.02	1	08/12/15 08:55	08/12/15 12:20	EPA 7471B	1,7471B	MC
Nickel, Total	12		mg/kg	2.1	0.34	2	08/12/15 04:25	08/12/15 13:07	EPA 3050B	1,6010C	JH
Potassium, Total	6900		mg/kg	210	34.	2	08/12/15 04:25	08/12/15 13:07	EPA 3050B	1,6010C	JH
Selenium, Total	ND		mg/kg	1.7	0.26	2	08/12/15 04:25	08/12/15 13:07	EPA 3050B	1,6010C	JH
Silver, Total	0.33	J	mg/kg	0.86	0.17	2	08/12/15 04:25	08/12/15 13:07	EPA 3050B	1,6010C	JH
Sodium, Total	110	J	mg/kg	170	26.	2	08/12/15 04:25	08/12/15 13:07	EPA 3050B	1,6010C	JH
Thallium, Total	ND		mg/kg	1.7	0.34	2	08/12/15 04:25	08/12/15 13:07	EPA 3050B	1,6010C	JH
Vanadium, Total	63		mg/kg	0.86	0.09	2	08/12/15 04:25	08/12/15 13:07	EPA 3050B	1,6010C	JH
Zinc, Total	200		mg/kg	4.3	0.60	2	08/12/15 04:25	08/12/15 13:07	EPA 3050B	1,6010C	JH

Project Name: KP14175 **Lab Number:** L1519118

Project Number: KP14175 **Report Date:** 08/12/15

SAMPLE RESULTS

Lab ID: L1519118-04 Date Collected: 08/05/15 11:45

Client ID: TP-15 Date Received: 08/11/15

Sample Location: PEEKSKILL Field Prep: Not Specified

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	18000		mg/kg	8.9	1.8	2	08/12/15 04:25	08/12/15 13:11	EPA 3050B	1,6010C	JH
Antimony, Total	ND		mg/kg	22	3.6	10	08/12/15 04:25	08/12/15 13:57	EPA 3050B	1,6010C	JH
Arsenic, Total	19		mg/kg	0.89	0.18	2	08/12/15 04:25	08/12/15 13:11	EPA 3050B	1,6010C	JH
Barium, Total	240		mg/kg	0.89	0.27	2	08/12/15 04:25	08/12/15 13:11	EPA 3050B	1,6010C	JH
Beryllium, Total	0.17	J	mg/kg	0.44	0.09	2	08/12/15 04:25	08/12/15 13:11	EPA 3050B	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.89	0.06	2	08/12/15 04:25	08/12/15 13:11	EPA 3050B	1,6010C	JH
Calcium, Total	4900		mg/kg	8.9	2.7	2	08/12/15 04:25	08/12/15 13:11	EPA 3050B	1,6010C	JH
Chromium, Total	25		mg/kg	0.89	0.18	2	08/12/15 04:25	08/12/15 13:11	EPA 3050B	1,6010C	JH
Cobalt, Total	12		mg/kg	1.8	0.44	2	08/12/15 04:25	08/12/15 13:11	EPA 3050B	1,6010C	JH
Copper, Total	62		mg/kg	0.89	0.18	2	08/12/15 04:25	08/12/15 13:11	EPA 3050B	1,6010C	JH
Iron, Total	29000		mg/kg	4.4	1.8	2	08/12/15 04:25	08/12/15 13:11	EPA 3050B	1,6010C	JH
Lead, Total	60		mg/kg	4.4	0.18	2	08/12/15 04:25	08/12/15 13:11	EPA 3050B	1,6010C	JH
Magnesium, Total	12000		mg/kg	8.9	0.89	2	08/12/15 04:25	08/12/15 13:11	EPA 3050B	1,6010C	JH
Manganese, Total	370		mg/kg	0.89	0.18	2	08/12/15 04:25	08/12/15 13:11	EPA 3050B	1,6010C	JH
Mercury, Total	0.14		mg/kg	0.07	0.02	1	08/12/15 08:55	08/12/15 12:22	EPA 7471B	1,7471B	MC
Nickel, Total	12		mg/kg	2.2	0.36	2	08/12/15 04:25	08/12/15 13:11	EPA 3050B	1,6010C	JH
Potassium, Total	4200		mg/kg	220	36.	2	08/12/15 04:25	08/12/15 13:11	EPA 3050B	1,6010C	JH
Selenium, Total	ND		mg/kg	1.8	0.27	2	08/12/15 04:25	08/12/15 13:11	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.89	0.18	2	08/12/15 04:25	08/12/15 13:11	EPA 3050B	1,6010C	JH
Sodium, Total	150	J	mg/kg	180	27.	2	08/12/15 04:25	08/12/15 13:11	EPA 3050B	1,6010C	JH
Thallium, Total	ND		mg/kg	1.8	0.36	2	08/12/15 04:25	08/12/15 13:11	EPA 3050B	1,6010C	JH
Vanadium, Total	58		mg/kg	0.89	0.09	2	08/12/15 04:25	08/12/15 13:11	EPA 3050B	1,6010C	JH
Zinc, Total	150		mg/kg	4.4	0.62	2	08/12/15 04:25	08/12/15 13:11	EPA 3050B	1,6010C	JH

Project Name: KP14175 **Lab Number:** L1519118

Project Number: KP14175 **Report Date:** 08/12/15

SAMPLE RESULTS

Lab ID: L1519118-05 Date Collected: 08/05/15 12:30

Client ID: TP-16 Date Received: 08/11/15

Sample Location: PEEKSKILL Field Prep: Not Specified

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	18000		mg/kg	8.7	1.7	2	08/12/15 04:25	08/12/15 13:15	EPA 3050B	1,6010C	JH
Antimony, Total	ND		mg/kg	4.4	0.70	2	08/12/15 04:25	08/12/15 13:15	EPA 3050B	1,6010C	JH
Arsenic, Total	19		mg/kg	0.87	0.17	2	08/12/15 04:25	08/12/15 13:15	EPA 3050B	1,6010C	JH
Barium, Total	160		mg/kg	0.87	0.26	2	08/12/15 04:25	08/12/15 13:15	EPA 3050B	1,6010C	JH
Beryllium, Total	0.26	J	mg/kg	0.44	0.09	2	08/12/15 04:25	08/12/15 13:15	EPA 3050B	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.87	0.06	2	08/12/15 04:25	08/12/15 13:15	EPA 3050B	1,6010C	JH
Calcium, Total	4800		mg/kg	8.7	2.6	2	08/12/15 04:25	08/12/15 13:15	EPA 3050B	1,6010C	JH
Chromium, Total	21		mg/kg	0.87	0.17	2	08/12/15 04:25	08/12/15 13:15	EPA 3050B	1,6010C	JH
Cobalt, Total	11		mg/kg	1.7	0.44	2	08/12/15 04:25	08/12/15 13:15	EPA 3050B	1,6010C	JH
Copper, Total	45		mg/kg	0.87	0.17	2	08/12/15 04:25	08/12/15 13:15	EPA 3050B	1,6010C	JH
Iron, Total	24000		mg/kg	4.4	1.7	2	08/12/15 04:25	08/12/15 13:15	EPA 3050B	1,6010C	JH
Lead, Total	66		mg/kg	4.4	0.17	2	08/12/15 04:25	08/12/15 13:15	EPA 3050B	1,6010C	JH
Magnesium, Total	8200		mg/kg	8.7	0.87	2	08/12/15 04:25	08/12/15 13:15	EPA 3050B	1,6010C	JH
Manganese, Total	430		mg/kg	0.87	0.17	2	08/12/15 04:25	08/12/15 13:15	EPA 3050B	1,6010C	JH
Mercury, Total	0.24		mg/kg	0.07	0.02	1	08/12/15 08:55	08/12/15 12:24	EPA 7471B	1,7471B	MC
Nickel, Total	12		mg/kg	2.2	0.35	2	08/12/15 04:25	08/12/15 13:15	EPA 3050B	1,6010C	JH
Potassium, Total	3500		mg/kg	220	35.	2	08/12/15 04:25	08/12/15 13:15	EPA 3050B	1,6010C	JH
Selenium, Total	ND		mg/kg	1.7	0.26	2	08/12/15 04:25	08/12/15 13:15	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.87	0.17	2	08/12/15 04:25	08/12/15 13:15	EPA 3050B	1,6010C	JH
Sodium, Total	97	J	mg/kg	170	26.	2	08/12/15 04:25	08/12/15 13:15	EPA 3050B	1,6010C	JH
Thallium, Total	ND		mg/kg	1.7	0.35	2	08/12/15 04:25	08/12/15 13:15	EPA 3050B	1,6010C	JH
Vanadium, Total	44		mg/kg	0.87	0.09	2	08/12/15 04:25	08/12/15 13:15	EPA 3050B	1,6010C	JH
Zinc, Total	120		mg/kg	4.4	0.61	2	08/12/15 04:25	08/12/15 13:15	EPA 3050B	1,6010C	JH

Project Name: KP14175 **Lab Number:** L1519118

Project Number: KP14175 **Report Date:** 08/12/15

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-05 Batch: WG811231-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	08/12/15 08:55	08/12/15 12:06	1,7471B	MC

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-05 Batch: WG811248-1										
Aluminum, Total	ND		mg/kg	4.0	0.80	1	08/12/15 04:25	08/12/15 12:21	1,6010C	JH
Antimony, Total	ND		mg/kg	2.0	0.32	1	08/12/15 04:25	08/12/15 12:21	1,6010C	JH
Arsenic, Total	ND		mg/kg	0.40	0.08	1	08/12/15 04:25	08/12/15 12:21	1,6010C	JH
Barium, Total	ND		mg/kg	0.40	0.12	1	08/12/15 04:25	08/12/15 12:21	1,6010C	JH
Beryllium, Total	ND		mg/kg	0.20	0.04	1	08/12/15 04:25	08/12/15 12:21	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.40	0.03	1	08/12/15 04:25	08/12/15 12:21	1,6010C	JH
Calcium, Total	ND		mg/kg	4.0	1.2	1	08/12/15 04:25	08/12/15 12:21	1,6010C	JH
Chromium, Total	ND		mg/kg	0.40	0.08	1	08/12/15 04:25	08/12/15 12:21	1,6010C	JH
Cobalt, Total	ND		mg/kg	0.80	0.20	1	08/12/15 04:25	08/12/15 12:21	1,6010C	JH
Copper, Total	ND		mg/kg	0.40	0.08	1	08/12/15 04:25	08/12/15 12:21	1,6010C	JH
Iron, Total	ND		mg/kg	2.0	0.80	1	08/12/15 04:25	08/12/15 12:21	1,6010C	JH
Lead, Total	ND		mg/kg	2.0	0.08	1	08/12/15 04:25	08/12/15 12:21	1,6010C	JH
Magnesium, Total	ND		mg/kg	4.0	0.40	1	08/12/15 04:25	08/12/15 12:21	1,6010C	JH
Manganese, Total	ND		mg/kg	0.40	0.08	1	08/12/15 04:25	08/12/15 12:21	1,6010C	JH
Nickel, Total	ND		mg/kg	1.0	0.16	1	08/12/15 04:25	08/12/15 12:21	1,6010C	JH
Potassium, Total	ND		mg/kg	100	16.	1	08/12/15 04:25	08/12/15 12:21	1,6010C	JH
Selenium, Total	ND		mg/kg	0.80	0.12	1	08/12/15 04:25	08/12/15 12:21	1,6010C	JH
Silver, Total	ND		mg/kg	0.40	0.08	1	08/12/15 04:25	08/12/15 12:21	1,6010C	JH
Sodium, Total	ND		mg/kg	80	12.	1	08/12/15 04:25	08/12/15 12:21	1,6010C	JH
Thallium, Total	ND		mg/kg	0.80	0.16	1	08/12/15 04:25	08/12/15 12:21	1,6010C	JH
Vanadium, Total	ND		mg/kg	0.40	0.04	1	08/12/15 04:25	08/12/15 12:21	1,6010C	JH
Zinc, Total	ND		mg/kg	2.0	0.28	1	08/12/15 04:25	08/12/15 12:21	1,6010C	JH

Project Name: KP14175
Project Number: KP14175

Lab Number: L1519118
Report Date: 08/12/15

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: KP14175

Project Number: KP14175

Lab Number: L1519118

Report Date: 08/12/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 Batch: WG811231-2 SRM Lot Number: D088-540								
Mercury, Total	107		-		72-128	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: KP14175

Project Number: KP14175

Lab Number: L1519118

Report Date: 08/12/15

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 Batch: WG811248-2 SRM Lot Number: D088-540					
Aluminum, Total	88	-	48-151	-	
Antimony, Total	187	-	1-208	-	
Arsenic, Total	105	-	79-121	-	
Barium, Total	105	-	83-117	-	
Beryllium, Total	103	-	83-117	-	
Cadmium, Total	107	-	83-117	-	
Calcium, Total	106	-	81-119	-	
Chromium, Total	110	-	80-120	-	
Cobalt, Total	102	-	84-115	-	
Copper, Total	106	-	81-118	-	
Iron, Total	103	-	45-155	-	
Lead, Total	98	-	81-117	-	
Magnesium, Total	101	-	76-124	-	
Manganese, Total	106	-	81-118	-	
Nickel, Total	104	-	83-117	-	
Potassium, Total	100	-	71-129	-	
Selenium, Total	108	-	78-122	-	
Silver, Total	110	-	75-124	-	
Sodium, Total	103	-	72-127	-	
Thallium, Total	110	-	80-120	-	
Vanadium, Total	107	-	78-122	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: KP14175

Project Number: KP14175

Lab Number: L1519118

Report Date: 08/12/15

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 Batch: WG811248-2 SRM Lot Number: D088-540					
Zinc, Total	106	-	82-118	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: KP14175
Project Number: KP14175

Lab Number: L1519118
Report Date: 08/12/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG811231-4 QC Sample: L1519118-01 Client ID: TP-10												
Mercury, Total	0.26	0.146	0.50	**165**	Q	-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: KP14175
Project Number: KP14175

Lab Number: L1519118
Report Date: 08/12/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG811248-4 QC Sample: L1519118-01 Client ID: TP-10										
Aluminum, Total	10000	173	9200	**0**	Q	-	-	75-125	-	20
Antimony, Total	3.3J	43.2	78	**180**	Q	-	-	75-125	-	20
Arsenic, Total	9.2	10.4	20	104		-	-	75-125	-	20
Barium, Total	180	173	350	98		-	-	75-125	-	20
Beryllium, Total	0.32J	4.32	4.2	97		-	-	75-125	-	20
Cadmium, Total	ND	4.41	4.2	95		-	-	75-125	-	20
Calcium, Total	2300	865	3200	104		-	-	75-125	-	20
Chromium, Total	18.	17.3	30	**69**	Q	-	-	75-125	-	20
Cobalt, Total	6.7	43.2	41	79		-	-	75-125	-	20
Copper, Total	77.	21.6	99	102		-	-	75-125	-	20
Iron, Total	18000	86.5	16000	**0**	Q	-	-	75-125	-	20
Lead, Total	380	44.1	1200	**1860**	Q	-	-	75-125	-	20
Magnesium, Total	3400	865	3700	**35**	Q	-	-	75-125	-	20
Manganese, Total	380	43.2	340	**0**	Q	-	-	75-125	-	20
Nickel, Total	13.	43.2	47	79		-	-	75-125	-	20
Potassium, Total	1300	865	2100	92		-	-	75-125	-	20
Selenium, Total	ND	10.4	9.0	87		-	-	75-125	-	20
Silver, Total	0.22J	25.9	23	89		-	-	75-125	-	20
Sodium, Total	62.J	865	960	111		-	-	75-125	-	20
Thallium, Total	ND	10.4	7.6	**73**	Q	-	-	75-125	-	20
Vanadium, Total	23.	43.2	62	90		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: KP14175
Project Number: KP14175

Lab Number: L1519118
Report Date: 08/12/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG811248-4 QC Sample: L1519118-01 Client ID: TP-10										
Zinc, Total	290	43.2	450	**370**	Q	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: KP14175
Project Number: KP14175

Lab Number: L1519118
Report Date: 08/12/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG811231-3 QC Sample: L1519118-01 Client ID: TP-10						
Mercury, Total	0.26	0.22	mg/kg	17		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: KP14175
Project Number: KP14175

Lab Number: L1519118
Report Date: 08/12/15

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG811248-3 QC Sample: L1519118-01 Client ID: TP-10						
Aluminum, Total	10000	8500	mg/kg	16		20
Antimony, Total	3.3J	2.8J	mg/kg	NC		20
Arsenic, Total	9.2	9.9	mg/kg	7		20
Barium, Total	180	210	mg/kg	15		20
Beryllium, Total	0.32J	0.24J	mg/kg	NC		20
Cadmium, Total	ND	0.33J	mg/kg	NC		20
Calcium, Total	2300	2200	mg/kg	4		20
Chromium, Total	18.	16	mg/kg	12		20
Cobalt, Total	6.7	6.3	mg/kg	6		20
Copper, Total	77.	89	mg/kg	14		20
Iron, Total	18000	17000	mg/kg	6		20
Lead, Total	380	480	mg/kg	**23**	Q	20
Magnesium, Total	3400	2900	mg/kg	16		20
Manganese, Total	380	360	mg/kg	5		20
Nickel, Total	13.	12	mg/kg	8		20
Potassium, Total	1300	1100	mg/kg	17		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	0.22J	0.19J	mg/kg	NC		20
Sodium, Total	62.J	54J	mg/kg	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: KP14175
Project Number: KP14175

Lab Number: L1519118
Report Date: 08/12/15

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG811248-3 QC Sample: L1519118-01 Client ID: TP-10						
Thallium, Total	ND	ND	mg/kg	NC		20
Vanadium, Total	23.	21	mg/kg	9		20
Zinc, Total	290	380	mg/kg	**27**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: KP14175
Project Number: KP14175

Lab Number: L1519118
Report Date: 08/12/15

SAMPLE RESULTS

Lab ID: L1519118-01
Client ID: TP-10
Sample Location: PEEKSKILL
Matrix: Soil

Date Collected: 08/05/15 09:30
Date Received: 08/11/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.4		%	0.100	NA	1	-	08/12/15 00:54	30,2540G	RT

Project Name: KP14175
Project Number: KP14175

Lab Number: L1519118
Report Date: 08/12/15

SAMPLE RESULTS

Lab ID: L1519118-02
Client ID: TP-12
Sample Location: PEEKSKILL
Matrix: Soil

Date Collected: 08/05/15 10:15
Date Received: 08/11/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.4		%	0.100	NA	1	-	08/12/15 00:54	30,2540G	RT

Project Name: KP14175
Project Number: KP14175

Lab Number: L1519118
Report Date: 08/12/15

SAMPLE RESULTS

Lab ID: L1519118-03
Client ID: TP-14
Sample Location: PEEKSKILL
Matrix: Soil

Date Collected: 08/05/15 11:00
Date Received: 08/11/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.7		%	0.100	NA	1	-	08/12/15 00:54	30,2540G	RT

Project Name: KP14175
Project Number: KP14175

Lab Number: L1519118
Report Date: 08/12/15

SAMPLE RESULTS

Lab ID: L1519118-04
Client ID: TP-15
Sample Location: PEEKSKILL
Matrix: Soil

Date Collected: 08/05/15 11:45
Date Received: 08/11/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.8		%	0.100	NA	1	-	08/12/15 00:54	30,2540G	RT

Project Name: KP14175
Project Number: KP14175

Lab Number: L1519118
Report Date: 08/12/15

SAMPLE RESULTS

Lab ID: L1519118-05
Client ID: TP-16
Sample Location: PEEKSKILL
Matrix: Soil

Date Collected: 08/05/15 12:30
Date Received: 08/11/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.3		%	0.100	NA	1	-	08/12/15 00:54	30,2540G	RT

Lab Duplicate Analysis
Batch Quality Control

Project Name: KP14175
Project Number: KP14175

Lab Number: L1519118
Report Date: 08/12/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG811213-1 QC Sample: L1518973-01 Client ID: DUP Sample						
Solids, Total	97.4	97.3	%	0		20

Project Name: KP14175
Project Number: KP14175

Lab Number: L1519118
Report Date: 08/12/15

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1519118-01A	Glass 250ml/8oz unpreserved	A	N/A	3.5	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NJ-8081(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1519118-02A	Glass 250ml/8oz unpreserved	A	N/A	3.5	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NJ-8081(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1519118-03A	Glass 250ml/8oz unpreserved	A	N/A	3.5	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NJ-8081(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)

*Values in parentheses indicate holding time in days

Project Name: KP14175
Project Number: KP14175

Lab Number: L1519118
Report Date: 08/12/15

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1519118-04A	Glass 250ml/8oz unpreserved	A	N/A	3.5	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NJ-PAHSIM(14),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NJ-8081(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1519118-05A	Glass 250ml/8oz unpreserved	A	N/A	3.5	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NJ-PAHSIM(14),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NJ-8081(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)

Container Comments

L1519118-01A

L1519118-02A

L1519118-03A

L1519118-04A

L1519118-05A

*Values in parentheses indicate holding time in days

Project Name:	KP14175	**Lab Number:**	L1519118
Project Number:	KP14175	**Report Date:**	08/12/15

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	KP14175	**Lab Number:**	L1519118
Project Number:	KP14175	**Report Date:**	08/12/15

Data Qualifiers

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	KP14175	**Lab Number:**	L1519118
Project Number:	KP14175	**Report Date:**	08/12/15

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

Last revised December 16, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA 2540D: TSS
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 8/1/15

ALPHA Job #: L1519118

Client Information

Client: Ecosystems Strategies, Inc.
Address: 24 Davis Avenue
Poughkeepsie, NY 12603
Phone: 845-452-1658
Fax: 845-485-7083
Email: adam@ecosystemsstrategies.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: KP14175
Project Location: Peekskill
Project #: KP14175
Project Manager: Adam
ALPHA Quote #:

Turn-Around Time

☐ Standard ☒ RUSH (only confirmed if pre-approved!)
Date Due: Next day Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #: KP14175.50

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: TAL metals	Pesticides	PAHs	SAMPLE HANDLING: Filtration ☐ Done ☐ Not needed ☐ Lab to do; Preservation ☐ Lab to do (Please specify below)	Sample Specific Comments	TOTAL # BOTTLES
1911810	TP-10	8-5-15	9:30	S	SS	X	X				
02	TP-12		10:15			X	X				
03	TP-14		11:00			X	X				
04	TP-15		11:45			X	X	X			
05	TP-16		12:30			X	X	X			

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
	8-11-2015 16:01		8-11-15 16:01
	8/1/15 23:50		8-11-15 1830
			8/1/15 23:50

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)