

Table 1
Summary of Fill Material Sample Analytical Results
NYSEG - Goshen Former MGP Site
Goshen, New York

Location ID: Date Collected:	DER-10 Restricted Residential Use	Units	CREEK BACKFILL 07/22/16	General Fill 08/09/16
PCBs				
Aroclor-1016	1	mg/kg	0.025 U	0.035 U
Aroclor-1221	1	mg/kg	0.025 U	0.035 U
Aroclor-1232	1	mg/kg	0.025 U	0.035 U
Aroclor-1242	1	mg/kg	0.025 U	0.035 U
Aroclor-1248	1	mg/kg	0.025 U	0.035 U
Aroclor-1254	1	mg/kg	0.025 U	0.035 U
Aroclor-1260	1	mg/kg	0.025 U	0.035 U
Volatile Organics				
1,1,1,2-Tetrachloroethane	--	mg/kg	0.0049 U	0.0055 U
1,1,1-Trichloroethane	0.68	mg/kg	0.0020 U	0.0022 U
1,1,2,2-Tetrachloroethane	--	mg/kg	0.0020 U	0.0022 U
1,1,2-Trichloroethane	--	mg/kg	0.0020 U	0.0022 U
1,1-Dichloroethane	0.27	mg/kg	0.0020 U	0.0022 U
1,1-Dichloroethene	0.33	mg/kg	0.0020 U	0.0022 U
1,1-Dichloropropene	--	mg/kg	0.0049 U	0.0055 U
1,2,3-Trichlorobenzene	--	mg/kg	0.0049 U	0.0055 U
1,2,3-Trichloropropane	--	mg/kg	0.0049 U	0.0055 U
1,2,4-Trichlorobenzene	--	mg/kg	0.0049 U	0.0055 U
1,2,4-Trimethylbenzene	3.6	mg/kg	0.0049 U	0.0055 U
1,2-Dibromo-3-chloropropane	--	mg/kg	0.0049 U	0.0055 U
1,2-Dibromoethane	--	mg/kg	0.0020 U	0.0022 U
1,2-Dichlorobenzene	1.1	mg/kg	0.0020 U	0.0022 U
1,2-Dichloroethane	0.02	mg/kg	0.0020 U	0.0022 U
1,2-Dichloropropane	--	mg/kg	0.0020 U	0.0022 U
1,3,5-Trimethylbenzene	8.4	mg/kg	0.0049 U	0.0055 U
1,3-Dichlorobenzene	2.4	mg/kg	0.0020 U	0.0022 U
1,3-Dichloropropane	--	mg/kg	0.0049 U	0.0055 U
1,4-Dichlorobenzene	1.8	mg/kg	0.0020 U	0.0022 U
1,4-Dioxane	0.1	mg/kg	0.12 U	0.14 U
2,2-Dichloropropane	--	mg/kg	0.0049 U	0.0055 U
2-Butanone	0.12	mg/kg	0.0098 U	0.011 U
2-Chlorotoluene	--	mg/kg	0.0049 U	0.0055 U
2-Hexanone	--	mg/kg	0.0098 U	0.011 U
4-Chlorotoluene	--	mg/kg	0.0049 U	0.0055 U
4-Methyl-2-pentanone	--	mg/kg	0.0049 U	0.0055 U
Acetone	0.05	mg/kg	0.0098 U	0.011 U
Benzene	0.06	mg/kg	0.00049 U	0.00055 U
Bromobenzene	--	mg/kg	0.0049 U	0.0055 U
Bromochloromethane	--	mg/kg	0.0049 U	0.0055 U
Bromodichloromethane	--	mg/kg	0.0020 U	0.0022 U
Bromoform	--	mg/kg	0.0020 U	0.0022 U
Bromomethane	--	mg/kg	0.0020 U	0.0022 U
Carbon Disulfide	--	mg/kg	0.0049 U	0.0055 U
Carbon Tetrachloride	0.76	mg/kg	0.0020 U	0.0022 U
Chlorobenzene	1.1	mg/kg	0.0020 U	0.0022 U
Chloroethane	--	mg/kg	0.0049 U	0.0055 U
Chloroform	0.37	mg/kg	0.0020 U	0.0022 U
Chloromethane	--	mg/kg	0.0049 U	0.0055 U
cis-1,2-Dichloroethene	0.25	mg/kg	0.0020 U	0.0022 U
cis-1,3-Dichloropropene	--	mg/kg	0.0020 U	0.0022 U
Dibromochloromethane	--	mg/kg	0.0020 U	0.0022 U
Dibromomethane	--	mg/kg	0.0049 U	0.0055 U
Dichlorodifluoromethane	--	mg/kg	0.0020 U	0.0022 U
Ethylbenzene	1	mg/kg	0.00062 J	0.0022 U
Hexachlorobutadiene	--	mg/kg	0.0049 U	0.0055 U

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Iodomethane	--	mg/kg	0.0049 U	0.0055 U
Isopropylbenzene	--	mg/kg	0.0049 U	0.0055 U
m&p-Xylene	--	mg/kg	0.0014 J	0.0022 U
Methyl tert-butyl ether	0.93	mg/kg	0.0020 U	0.0022 U
Methylene Chloride	0.05	mg/kg	0.0014 J	0.0022 U
Naphthalene	12	mg/kg	0.0049 U	0.0055 U
n-Butylbenzene	--	mg/kg	0.0049 U	0.0055 U
n-Propylbenzene	3.9	mg/kg	0.0049 U	0.0055 U
o-Xylene	--	mg/kg	0.0020 U	0.0022 U
p-Isopropyltoluene	--	mg/kg	0.0049 U	0.0055 U
sec-Butylbenzene	11	mg/kg	0.0049 U	0.0055 U
Styrene	--	mg/kg	0.0049 U	0.0055 U
tert-Butylbenzene	12	mg/kg	0.0049 U	0.0055 U
Tetrachloroethene	1.3	mg/kg	0.0020 U	0.0022 U
Toluene	0.7	mg/kg	0.0049 U	0.00055 JB
trans-1,2-Dichloroethene	0.19	mg/kg	0.0020 U	0.0022 U
trans-1,3-Dichloropropene	--	mg/kg	0.0020 U	0.0022 U
Trichloroethene	0.47	mg/kg	0.0020 U	0.0022 U
Trichlorofluoromethane	--	mg/kg	0.0020 U	0.0022 U
Vinyl Acetate	--	mg/kg	0.0049 U	0.0055 U
Vinyl Chloride	0.02	mg/kg	0.0020 U	0.0022 U
Xylenes (total)	1.6	mg/kg	0.0017 J	0.0022 U
Semivolatile Organics				
1,2,4-Trichlorobenzene	--	mg/kg	0.25 U	0.26 U
1,2-Dichlorobenzene	1.1	mg/kg	0.25 U	0.26 U
1,2-Diphenylhydrazine	--	mg/kg	0.25 U	0.26 U
1,3-Dichlorobenzene	2.4	mg/kg	0.25 U	0.26 U
1,4-Dichlorobenzene	1.8	mg/kg	0.25 U	0.26 U
1-Methylnaphthalene	--	mg/kg	0.25 U	0.26 U
2,4,5-Trichlorophenol	--	mg/kg	0.50 U	0.53 U
2,4,6-Trichlorophenol	--	mg/kg	0.50 U	0.53 U
2,4-Dichlorophenol	--	mg/kg	0.50 U	0.53 U
2,4-Dimethylphenol	--	mg/kg	0.50 U	0.53 U
2,4-Dinitrophenol	--	mg/kg	0.50 U	0.53 U
2,4-Dinitrotoluene	--	mg/kg	0.50 U	0.53 U
2,6-Dinitrotoluene	--	mg/kg	0.50 U	0.53 U
2-Chloronaphthalene	--	mg/kg	0.25 U	0.26 U
2-Chlorophenol	--	mg/kg	0.25 U	0.26 U
2-Methylnaphthalene	--	mg/kg	0.10 U	0.11 U
2-Methylphenol	0.33	mg/kg	0.50 U	0.53 U
2-Nitroaniline	--	mg/kg	0.50 U	0.53 U
2-Nitrophenol	--	mg/kg	0.50 U	0.53 U
3&4-Methylphenol	0.33	mg/kg	0.50 U	0.53 U
3,3'-Dichlorobenzidine	--	mg/kg	0.25 U	0.53 U
3-Nitroaniline	--	mg/kg	0.50 U	0.53 U
4,6-Dinitro-2-methylphenol	--	mg/kg	0.50 U	0.53 U
4-Bromophenyl-phenylether	--	mg/kg	0.25 U	0.26 U
4-Chloro-3-Methylphenol	--	mg/kg	0.50 U	0.53 U
4-Chloroaniline	--	mg/kg	0.50 U	0.53 U
4-Chlorophenyl-phenylether	--	mg/kg	0.25 U	0.26 U
4-Nitroaniline	--	mg/kg	0.50 U	0.53 U
4-Nitrophenol	--	mg/kg	0.50 U	0.53 U
Acenaphthene	98	mg/kg	0.10 U	0.11 U
Acenaphthylene	100	mg/kg	0.10 U	0.11 U
Aniline	--	mg/kg	0.50 U	0.53 U
Anthracene	100	mg/kg	0.10 U	0.11 U
Benzidine	--	mg/kg	0.50 U	0.53 U
Benzo(a)anthracene	1	mg/kg	0.10 U	0.11 U

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Benzo(a)pyrene	1	mg/kg	0.10 U	0.26 U
Benzo(b)fluoranthene	1	mg/kg	0.10 U	0.11 U
Benzo(g,h,i)perylene	100	mg/kg	0.10 U	0.11 U
Benzo(k)fluoranthene	1.7	mg/kg	0.10 U	0.11 U
Benzoic Acid	--	mg/kg	0.50 U	0.53 U
Benzyl Alcohol	--	mg/kg	0.50 U	0.53 U
bis(2-Chloroethoxy)methane	--	mg/kg	0.25 U	0.26 U
bis(2-Chloroethyl)ether	--	mg/kg	0.25 U	0.26 U
bis(2-Chloroisopropyl)ether	--	mg/kg	0.25 U	0.26 U
bis(2-Ethylhexyl)phthalate	--	mg/kg	0.25 U	0.26 U
Butylbenzylphthalate	--	mg/kg	0.25 U	0.26 U
Carbazole	--	mg/kg	0.10 U	0.11 U
Chrysene	1	mg/kg	0.10 U	0.11 U
Dibenzo(a,h)anthracene	0.333	mg/kg	0.10 U	0.11 U
Dibenzofuran	59	mg/kg	0.10 U	0.11 U
Diethylphthalate	--	mg/kg	0.25 U	0.26 U
Dimethylphthalate	--	mg/kg	0.25 U	0.26 U
Di-n-Butylphthalate	--	mg/kg	0.25 U	0.26 U
Di-n-Octylphthalate	--	mg/kg	0.25 U	0.26 U
Fluoranthene	100	mg/kg	0.10 U	0.11 U
Fluorene	100	mg/kg	0.10 U	0.11 U
Hexachlorobenzene	1.2	mg/kg	0.25 U	0.26 U
Hexachlorobutadiene	--	mg/kg	0.25 U	0.26 U
Hexachlorocyclopentadiene	--	mg/kg	0.50 U	0.53 U
Hexachloroethane	--	mg/kg	0.25 U	0.26 U
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	0.10 U	0.26 U
Isophorone	--	mg/kg	0.25 U	0.26 U
Naphthalene	12	mg/kg	0.012 J	0.11 U
Nitrobenzene	--	mg/kg	0.25 U	0.26 U
N-Nitrosodimethylamine	--	mg/kg	0.50 U	0.53 U
N-Nitroso-di-n-propylamine	--	mg/kg	0.25 U	0.26 U
N-Nitrosodiphenylamine	--	mg/kg	0.25 U	0.26 U
Pentachlorophenol	0.8	mg/kg	0.50 U	0.53 U
Phenanthrene	100	mg/kg	0.10 U	0.11 U
Phenol	0.33	mg/kg	0.25 U	0.26 U
Pyrene	100	mg/kg	0.10 U	0.11 U
Pyridine	--	mg/kg	0.50 U	0.53 U
Inorganics				
Arsenic	16	mg/kg	12.9	5.50
Barium	400	mg/kg	42.1	40.7
Beryllium	47	mg/kg	NA	0.570
Cadmium	4.3	mg/kg	0.0410 B	0.0360 B
Chromium	--	mg/kg	15.8	14.6
Copper	270	mg/kg	43.5	19.5
Lead	400	mg/kg	30.7	10.1
Manganese	2,000	mg/kg	520	573
Mercury	0.73	mg/kg	0.00610 B	0.0270 B
Nickel	130	mg/kg	NA	20.2
Selenium	4	mg/kg	0.820 U	0.900 U
Silver	8.3	mg/kg	0.410 U	0.450 U
Zinc	2,480	mg/kg	NA	52.7
Miscellaneous				
Cyanide	27	mg/kg	0.12 U	0.13 U

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Pesticides				
4,4'-DDD	13	mg/kg	0.0049 U	0.0071 U
4,4'-DDE	8.9	mg/kg	0.0049 U	0.0071 U
4,4'-DDT	7.9	mg/kg	0.0049 U	0.0071 U
Aldrin	0.097	mg/kg	0.0049 U	0.0071 U
Alpha-BHC	0.02	mg/kg	0.0049 U	0.0071 U
Alpha-Chlordane	2.9	mg/kg	0.0049 U	0.0071 U
Beta-BHC	0.09	mg/kg	0.0049 U	0.0071 U
Delta-BHC	0.25	mg/kg	0.0049 U	0.0071 U
Dieldrin	0.1	mg/kg	0.0049 U	0.0071 U
Endosulfan I	24	mg/kg	0.0049 U	0.0071 U
Endosulfan II	24	mg/kg	0.0049 U	0.0071 U
Endosulfan Sulfate	24	mg/kg	0.0049 U	0.0071 U
Endrin	0.06	mg/kg	0.0049 U	0.0071 U
Endrin Aldehyde	--	mg/kg	0.0049 U	0.0071 U
Endrin Ketone	--	mg/kg	0.0049 U	0.0071 U
Gamma-BHC (Lindane)	0.1	mg/kg	0.0049 U	0.0071 U
Gamma-Chlordane	--	mg/kg	0.0049 U	0.0071 U
Heptachlor	0.38	mg/kg	0.0049 U	0.0071 U
Heptachlor Epoxide	--	mg/kg	0.0049 U	0.0071 U
Methoxychlor	--	mg/kg	0.0049 U	0.0071 U
Toxaphene	--	mg/kg	0.049 U	0.071 U
Herbicides				
2,4,5-T	--	mg/kg	0.020 U	0.022 U
2,4,5-TP	3.8	mg/kg	0.020 U	0.022 U
2,4-D	--	mg/kg	0.020 U	0.022 U

Acronyms and Abbreviations:

B = Indicates results $\geq$ method detection limit (MDL) but $<$ reporting limit (RL)
J = Indicates an estimated value
mg/kg = milligram per kilogram

Notes:

1. Bolding indicates a detection
2. Shading indicates an exceedance of the Restricted Residential Standard
3. Samples collected by Arcadis on the dates indicated.
4. Samples analyzed by SGS Accutest located in Marlborough Massachusetts.