

TABLE 1
SUMMARY OF ANALYTICAL RESULTS - SOIL
JUNE 2019 PHASE II ESA
PROPOSED HUDSON VALLEY PAPERBOARD BCP SITE
1900 RIVER ROAD, CASTLETON-ON-HUDSON, RENSSELAER COUNTY

Analyte/Compound	NYSDEC Soil Cleanup Objective (SCO) - Unrestricted Use	NYSDEC Soil Cleanup Objective (SCO) - Industrial Use	Sample ID & Depth															
			S-1	S-2	S-3	S-4	S-5	S-6	B-1	S-7	B-2	B-4	TP-3	S-9	S-10	S-11	B-9	B-10
			0-1'	0-1'	0-1'	0-1'	0-1'	0-1'	0-2.5'	0-1'	0-2'	8-10'	8-9'	0-1'	0-1'	0-1'	1-3'	1-3'
(VOCs)																		
1,1-Dichloroethane	0.27	480	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1.30	300	ND	ND	ND	ND	ND	ND	0.0011	ND	ND	ND	ND	0.00064	ND	0.017	ND	ND
1,1,1-trichloroethane	0.68	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.06	89	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.30	ND	ND	ND	ND	ND
Toluene	0.70	1,000	ND	ND	ND	0.012	ND	ND	ND	ND	0.00094 J	ND	0.069 J	ND	ND	ND	ND	ND
Ethylbenzene	1.0	780	0.00025 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.092	ND	ND	ND	ND	ND
Trichloroethene	0.47	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	1.10	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	2.40	560	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1.80	250	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	0.93	1,000	0.00084 J	0.00099 J	0.00075 J	0.00075 J	0.00076 J	0.00070 J	0.00045 J	0.00092 J	0.001 J	ND	ND	ND	ND	ND	ND	ND
Xylenes (Total)	0.26	1,000	0.0019 J	ND	ND	ND	ND	ND	ND	ND	ND	0.00053 J	0.028 J	0.22	ND	ND	ND	ND
cis-1,2-dichloroethene	0.25	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	0.05	1,000	0.29	0.05	0.13	0.15	0.062	0.023	0.093	0.052	0.0057 J	ND	ND	ND	ND	ND	ND	ND
2-Butanone	NS	NS	0.16	ND	0.041	0.018	ND	ND	ND	0.0073 J	ND	ND	ND	ND	ND	ND	ND	ND
4-methyl-2-pentanone	NS	NS	0.024	ND	0.012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	NS	NS	0.012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-butylbenzene	12	NS	0.00071 J	ND	ND	ND	ND	ND	ND	ND	ND	0.42	0.32	ND	ND	ND	ND	ND
sec-butylbenzene	11	1,000	0.00046 J	ND	ND	ND	ND	ND	ND	ND	ND	0.62	0.19	ND	ND	ND	ND	ND
tert-butylbenzene	5.90	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.14	ND	ND	ND	ND	ND	ND
Isopropylbenzene	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.12	0.28	ND	ND	ND	ND	ND
p-isopropyltoluene	NS	NS	0.00042 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.021 J	ND	ND	ND	ND	ND
Naphthalene	12	1,000	0.0013 J	ND	ND	0.0051 J	ND	ND	ND	ND	ND	ND	0.075 J	ND	ND	ND	ND	ND
n-propylbenzene	3.90	1,000	0.00047 J	ND	ND	ND	ND	ND	ND	ND	ND	0.32	0.97	ND	ND	ND	ND	ND
1,3,5-trimethylbenzene	8.40	380	0.0016 J	0.00027 J	0.0013 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-trimethylbenzene	3.60	380	0.004	0.00057 J	0.0023	ND	ND	ND	ND	ND	0.00072 J	0.038 J	0.028 J	ND	ND	ND	ND	ND
Methylacetate	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0046	0.002 J	0.0013 J
Cyclohexane	NS	NS	ND	ND	0.00068 J	ND	ND	ND	ND	ND	0.0016 J	0.14 J	1.5	ND	ND	ND	ND	ND
Methylcyclohexane	NS	NS	ND	ND	0.00057 J	ND	ND	ND	ND	ND	0.0028 J	0.26 J	3.2	ND	ND	ND	ND	ND
Semi-volatile Organic Compounds (SVOCs)																		
Acenaphthene	20	1,000	15 J	11	ND	ND	ND	ND	0.44 J	ND	0.039 J	0.11 J	0.83	ND	ND	0.06 J	0.038 J	ND
1,2-Dichlorobenzene	1.10	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	2.40	560	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1.80	250	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	100	1,000	50	310	7.3 J	ND	ND	ND	0.62	0.28	0.38	ND	16	0.38	0.62	1.8	0.76	0.029 J
Naphthalene	12	1,000	ND	3.9 J	ND	ND	ND	ND	0.67 J	0.077 J	1.3	0.22	1.8	0.049 J	0.87 J	0.19	0.024 J	ND
Nitrobenzene	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	NS	NS	59	11	79	ND	ND	ND	0.56	ND	0.075 J	ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate	NS	NS	ND	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	1.0	11	13 J	180	ND	ND	ND	ND	0.34	0.13 J	0.34	ND	8.4	0.19	0.29	1.1	0.34	ND
Benzo(a)pyrene	1.0	1.1	9.2 J	200	ND	ND	ND	ND	0.27	0.11 J	0.27	ND	8.4	0.19	0.34	1.0	0.33	ND
Benzo(b)fluoranthene	1.0	11	21	270	ND	ND	ND	ND	0.35	0.17	0.29	ND	11	0.29	0.53	1.6	0.45	ND
Benzo(k)fluoranthene	0.80	110	6 J	88	ND	ND	ND	ND	0.12	0.039 J	0.06 J	ND	2.8	0.10 J	0.16	0.49	0.14	ND

TABLE 1 - Continued
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1900 RIVER ROAD, CASTLETON-ON-HUDSON, RENSSELAER COUNTY

Analyte/Compound	NYSDEC Soil Cleanup Objective (SCO) - Unrestricted Use	NYSDEC Soil Cleanup Objective (SCO) - Industrial Use	Sample ID & Depth															
			S-1	S-2	S-3	S-4	S-5	S-6	B-1	S-7	B-2	B-4	TP-3	S-9	S-10	S-11	B-9	B-10
			0-1'	0-1'	0-1'	0-1'	0-1'	0-1'	0-2.5'	0-1'	0-2'	8-10'	8-9'	0-1'	0-1'	0-1'	1-3'	1-3'
Chrysene	1.0	110	22	190	ND	ND	ND	ND	0.31	0.12 J	0.50	ND	6.8	0.22	0.35	1.2	0.33	ND
Acenaphthylene	100	1,000	ND	18	ND	ND	ND	ND	ND	ND	ND	ND	0.073	0.034 J	ND	0.28	ND	ND
Anthracene	100	1,000	17 J	59	ND	ND	ND	ND	0.13	ND	0.075 J	ND	2.9	ND	0.066 J	0.26	0.10 J	ND
Benzo(ghi)perylene	100	1,000	8.3 J	180	ND	ND	ND	ND	0.15	0.081 J	0.22	ND	4.9	0.140 J	0.24	0.62	0.23	ND
Fluorene	30	1,000	30	14	ND	ND	ND	ND	0.061 J	0.024 J	0.14 J	0.36	1.2	ND	0.032 J	0.065 J	0.036 J	ND
Phenanthrene	100	1,000	180	210	9.1 J	1.6 J	ND	ND	0.52	0.23	1.3	0.098 J	11	0.13	0.33	0.76	0.54	ND
Dibenzo(a,h)anthracene	0.33	1.1	ND	32	ND	ND	ND	ND	0.042 J	ND	0.084 J	ND	1.2	0.032 J	0.61 J	0.19	0.056 J	ND
Indeno(1,2,3-cd)pyrene	0.50	11	9.5 J	170	ND	ND	ND	ND	0.17	0.083 J	0.14 J	ND	4.6	0.14 J	0.28	0.70	0.24	ND
Pyrene	100	1,000	62	260	5 J	ND	1.8 J	ND	0.51	0.23	0.45	ND	14	0.30	0.56	1.7	0.64	0.027 J
Biphenyl	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	0.22 J	ND	0.12 J	ND	ND	0.044 J	ND	ND
Dibenzofuran	NS	NS	4.8 J	10	ND	ND	ND	ND	0.043 J	0.029 J	0.50	0.24	0.66	ND	ND	0.071 J	0.024 J	ND
2-Methylnaphthalene	NS	NS	ND	2.2 J	ND	ND	ND	ND	0.061 J	0.076 J	2.1	0.48	0.88	0.076 J	0.088 J	0.210 J	0.028 J	ND
Acetophenone	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.076 J	ND	ND
2,4-Dimethylphenol	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	0.33	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-methylphenol	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	0.031 J	ND	ND	ND	ND	ND	ND	ND
3-methylphenol/4-methylphenol	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	0.035 J	ND	0.086 J	ND	ND	ND	ND	ND
Benzoic Acid	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	NS	NS	ND	49	ND	ND	ND	ND	0.057 J	0.043 J	0.085 J	ND	1.0	ND	0.04 J	0.094 J	0.046 J	ND
Polychlorinated Biphenyls																		
Total PCBs	0.10	25	0.804 J	0.802 J	0.740 J	ND	0.266 J	ND	0.0254 J	ND	ND	NA	NA	0.0726 J	0.0352 J	0.0186 J	0.112	ND
Metals																		
Antimony	NS	NS	4.98	7.47	2.32	0.349 J	3.14	1.83 J	0.618 J	1.30 J	1.72 J	NA	NA	1.69 J	2.74	3.42	1.28 J	1.02 J
Arsenic	13	16	4.40	6.06	2.79	2.60	5.37	4.03	3.89	5.72	17.3	NA	NA	7.01	11.8	18.8	5.0	5.01
Beryllium	7.2	2,700	0.63	0.236 J	0.093 J	0.781	0.773	0.748	0.233	0.66	0.40	NA	NA	0.386	0.547	0.464	0.38	0.382
Cadmium	2.5	60	3.09	4.94	4.66	3.73	2.51	1.21	0.403 J	1.14	1.35	NA	NA	0.114 J	ND	ND	ND	ND
Chromium	30	6,800	46	45.3	35.1	35.6	35.2	36.9	4.53	11.7	18.4	NA	NA	12.4	12.7	8.64	10.1	11
Copper	50	10,000	263	107	95	22.3	136	101	18.8	30.9	37.7	NA	NA	20	26.4	43.8	23.4	21.8
Lead	63	3,900	180	321	148	27.5	368	84.8	29.3	35.3	67	NA	NA	47.7	52	88.6	24.9	12.9
Mercury	0.18	6	0.135	2.2	ND	0.136	0.062	ND	ND	0.099	0.163	NA	NA	0.093	0.218	0.132	0.072	ND
Nickel	30	10,000	15.4	18.4	9.8	3.91	21.7	15.4	8.25	16.7	16.7	NA	NA	16.5	17.3	11.2	14.2	14.5
Selenium	3.9	6,800	0.224 J	0.400 J	0.211 J	0.183 J	ND	ND	0.184 J	0.183 J	0.759 J	NA	NA	ND	ND	ND	ND	ND
Silver	2.0	6,800	0.410 J	0.822	0.333 J	ND	0.178 J	ND	ND	ND	0.313 J	NA	NA	ND	ND	ND	ND	ND
Thallium	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	0.202 J	NA	NA	ND	0.222 J	0.325 J	ND	ND
Zinc	109	10,000	957	541	916	1,130	342	614	58.6	69.5	61.1	NA	NA	117	64.5	78.3	69.5	58

Notes:

All results presented in milligrams per kilogram (mg/kg) or parts per million (ppm)

ND - Compound not detected.

NA - Compound not analyzed.

NS - No NYSDEC SCO available.

J - Estimated result between the reporting limit and method detection limit.

	Reported concentration meets or exceeds the NYSDEC SCO for Industrial Use
	Reported concentration meets or exceeds the NYSDEC SCO for Unrestricted Use

TABLE 1 - Continued
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JUNE 2019 PHASE II ESA
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1900 RIVER ROAD, CASTLETON-ON-HUDSON, RENSSELAER COUNTY

Analyte/Compound	NYSDEC Soil Cleanup Objective (SCO) - Unrestricted Use	NYSDEC Soil Cleanup Objective (SCO) - Industrial Use	Sample ID & Depth													
			B-5	B-5	B-6	B-6	B-7	B-7	B-7	WOOD-1	WOOD-2	CB-4	CB-1	S-12	S-13	DRUM-1
			0-2'	8-10'	0-2'	8-10'	0-2.5'	2.5-5'	5-10'					0-1'	0-1'	
(VOCs)																
1,1-Dichloroethane	0.27	480	ND	ND	ND	ND	0.00021 J	ND	ND	NA	ND	ND	0.00023 J	ND	ND	ND
Tetrachloroethene	1.30	300	0.0058	0.0041	0.0019	0.0017	0.0057	0.065	0.031 J	NA	ND	ND	ND	ND	0.00071	ND
1,1,1-trichloroethane	0.68	1,000	ND	ND	ND	ND	0.00061	ND	ND	NA	ND	ND	ND	ND	ND	ND
Benzene	0.06	89	ND	ND	ND	ND	ND	ND	ND	NA	6.6	ND	ND	ND	ND	ND
Toluene	0.70	1,000	ND	ND	ND	ND	ND	ND	ND	NA	29	ND	ND	ND	ND	ND
Ethylbenzene	1.0	780	ND	ND	ND	ND	ND	0.01 J	0.043 J	NA	10	0.069	0.022	ND	ND	ND
Trichloroethene	0.47	400	ND	ND	ND	0.00018 J	0.00016 J	ND	ND	NA	ND	ND	0.00085	ND	ND	ND
1,2-Dichlorobenzene	1.10	1,000	ND	ND	ND	ND	0.00024 J	0.50	1.2	NA	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	2.40	560	ND	ND	ND	ND	0.00057 J	0.62	0.98	NA	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1.80	250	ND	ND	ND	ND	0.00046 J	0.85	1.7	NA	ND	ND	ND	ND	ND	ND
MTBE	0.93	1,000	ND	ND	ND	ND	0.00027 J	ND	ND	NA	ND	ND	ND	ND	ND	ND
Xylenes (Total)	0.26	1,000	ND	ND	ND	ND	ND	0.18 J	0.63	NA	92	0.49	0.16	ND	ND	ND
cis-1,2-dichloroethene	0.25	1,000	ND	ND	ND	ND	0.00027 J	0.047 J	ND	NA	ND	ND	ND	ND	ND	ND
Styrene	NS	NS	ND	ND	ND	ND	ND	ND	ND	NA	27	ND	ND	ND	ND	ND
Acetone	0.05	1,000	ND	0.0086 J	ND	0.0057 J	0.03	ND	ND	NA	ND	1.8	13	0.0066 J	0.0095 J	ND
2-Butanone	NS	NS	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND
4-methyl-2-pentanone	NS	NS	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND
2-Hexanone	NS	NS	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND
n-butylbenzene	12	NS	ND	ND	ND	ND	ND	0.12	0.44	NA	ND	ND	ND	ND	ND	ND
sec-butylbenzene	11	1,000	ND	ND	ND	ND	ND	0.12	0.36	NA	4.7	ND	ND	ND	ND	ND
tert-butylbenzene	5.90	1,000	ND	ND	ND	ND	ND	0.024 J	0.064 J	NA	ND	ND	ND	ND	ND	ND
Isopropylbenzene	NS	NS	ND	ND	ND	ND	ND	0.045 J	0.20	NA	3.3	ND	ND	ND	ND	35 J
p-isopropyltoluene	NS	NS	ND	ND	ND	ND	ND	0.10	0.37	NA	10	ND	ND	ND	ND	ND
Naphthalene	12	1,000	ND	ND	ND	ND	ND	0.39	ND	NA	5,900	ND	ND	ND	ND	ND
n-propylbenzene	3.90	1,000	ND	ND	ND	ND	ND	0.12	0.48	NA	ND	ND	ND	ND	ND	23 J
1,3,5-trimethylbenzene	8.40	380	ND	ND	ND	ND	0.00084 J	1.2	3.7	NA	38	ND	ND	ND	ND	ND
1,2,4-trimethylbenzene	3.60	380	ND	ND	ND	ND	0.00068 J	1.7	7.4	NA	96	ND	ND	ND	ND	ND
Methylacetate	NS	NS	0.0025 J	0.007	0.0042	0.0055	0.0064	ND	ND	NA	ND	ND	ND	ND	0.034	ND
Cyclohexane	NS	NS	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND
Methyl cyclohexane	NS	NS	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND
Semi-volatile Organic Compounds (SVOCs)																
Acenaphthene	20	1,000	0.15	0.31	0.10 J	0.054 J	0.23	0.030 J	ND	ND	190	ND	ND	0.58	0.026 J	ND
1,2-Dichlorobenzene	1.10	1,000	ND	ND	ND	ND	ND	0.17 J	0.23	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	2.40	560	ND	ND	ND	ND	ND	0.15 J	0.19 J	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1.80	250	ND	ND	ND	ND	ND	0.26	0.33	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	100	1,000	2.7	4.6	2.0	0.95	3.9	0.080 J	0.089 J	230	2,700	0.14	0.053 J	8.2	0.57	38 J
Naphthalene	12	1,000	0.068 J	0.20	0.043 J	0.028 J	0.21	0.14 J	0.044 J	ND	2,200	ND	ND	0.67	0.087 J	ND
Nitrobenzene	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.038 J	ND	ND
Bis(2-ethylhexyl) phthalate	NS	NS	ND	ND	ND	ND	ND	0.30	0.32	29	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	NS	NS	ND	ND	ND	ND	ND	ND	ND	7.0 J	ND	ND	ND	ND	ND	22 J
Benzo(a)anthracene	1.0	11	1.3	2.3	1.0	0.46	1.9	0.042 J	0.046 J	170	1,500	0.095 J	0.043 J	4.2	0.30	16 J
Benzo(a)pyrene	1.0	1.1	1.3	2.2	0.90	0.40	1.9	ND	ND	180	1,000	0.075 J	0.053 J	4.0	0.31	ND
Benzo(b)fluoranthene	1.0	11	1.7	3.0	1.2	0.52	2.4	0.036 J	0.059 J	290	1,400	0.11 J	0.070 J	5.2	0.44	ND
Benzo(k)fluoranthene	0.80	110	0.53	0.96	0.40	0.20	0.83	ND	ND	91	550	0.039 J	ND	1.8	0.14	ND

TABLE 1 - Continued
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			B-5	B-5	B-6	B-6	B-7	B-7	B-7	WOOD-1	WOOD-2	CB-4	CB-1	S-12	S-13	DRUM-1
			0-2'	8-10'	0-2'	8-10'	0-2.5'	2.5-5'	5-10'					0-1'	0-1'	
Chrysene	1.0	110	1.2	2.2	0.97	0.41	2.0	0.039 J	0.048 J	170	1,300	0.085 J	0.066 J	3.8	0.34	12 J
Acenaphthylene	100	1,000	0.088 J	0.12 J	0.050 J	ND	0.11 J	ND	ND	35	1,000	ND	ND	0.19	0.039 J	31 J
Anthracene	100	1,000	0.44	0.78	0.32	0.16	0.60	ND	ND	44	830	ND	ND	1.7	0.087 J	16 J
Benzo(ghi)perylene	100	1,000	0.71	1.2	0.50	0.22	1.0	ND	0.029 J	140	560	0.038 J	0.042 J	2.2	0.22	ND
Fluorene	30	1,000	0.16 J	0.29	0.10 J	0.050 J	0.25	0.055 J	0.037 J	4.1 J	650	ND	ND	0.69	0.028 J	ND
Phenanthrene	100	1,000	1.8	3.3	1.4	0.66	2.9	0.13	0.11 J	79	3,200	0.042 J	0.032 J	6.6	0.54	18 J
Dibenzo(a,h)anthracene	0.33	1.1	0.18	0.33	0.14	0.058 J	0.27	ND	ND	30	160	ND	ND	0.59	0.055 J	ND
Indeno(1,2,3-cd)pyrene	0.50	11	0.80	1.4	0.56	0.25	1.1	ND	ND	150	660	0.045 J	0.038 J	2.6	0.23	ND
Pyrene	100	1,000	2.3	3.8	1.7	0.79	3.8	0.092 J	0.10 J	340	2,400	0.12	0.068 J	6.8	0.50	44 J
Biphenyl	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	190	ND	ND	0.094 J	ND	ND
Dibenzofuran	NS	NS	0.09 J	0.20	0.067 J	0.036 J	0.15 J	0.023 J	ND	3.2 J	370	ND	ND	0.51	0.057 J	ND
2-Methylnaphthalene	NS	NS	0.047 J	0.13 J	0.033 J	ND	0.15 J	0.36	0.30	ND	1,000	ND	ND	0.30	0.067 J	ND
Acetophenone	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.031 J	ND
2,4-Dimethylphenol	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	160	ND	ND	ND	ND	ND
Phenol	0.33	1,000	ND	ND	ND	ND	ND	ND	ND	ND	390	ND	ND	ND	ND	ND
2-methylphenol	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	240	ND	ND	ND	ND	ND
3-methylphenol/4-methylphenol	NS	NS	ND	ND	ND	ND	0.032 J	0.035 J	ND	ND	600	ND	ND	0.068 J	ND	ND
Benzoic Acid	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	160 J
Carbazole	NS	NS	0.23	0.48	0.15 J	0.080 J	0.26	ND	ND	23 J	400	ND	ND	1.1	0.055 J	ND
Polychlorinated Biphenyls																
Total PCBs	0.10	25	0.0602 J	0.0705 J	0.0126 J	ND	NA	NA	NA	0.310 J	0.680 J	NA	NA	0.0593	0.0438	NA
Metals																
Antimony	NS	NS	10.7	3.95	1.83 J	1.48 J	2.42	2.97	1.15 J	NA	ND	2.43	1.63 J	6.76	1.77 J	ND
Arsenic	13	16	9.9	13.1	6.58	6.33	7.53	4.85	5.7	NA	0.341 J	8.18	5.22	18.2	220	0.645
Beryllium	7.2	2,700	0.426	0.402	0.352	0.428	0.35	0.41	0.341	NA	ND	0.179 J	0.279	0.512	0.872	ND
Cadmium	2.5	60	0.079 J	0.089 J	ND	ND	ND	ND	ND	NA	ND	0.198 J	0.279 J	0.097 J	0.797	0.105 J
Chromium	30	6,800	13.3	13.4	12.4	12.7	9.96	12.2	10.7	NA	0.273 J	7.11	10.3	11.8	19.3	4.15
Copper	50	10,000	44.9	57.3	34	24.7	53.1	38.1	27.1	NA	1.52	26.8	21.6	115	83.9	4.16
Lead	63	3,900	111	104	35.2	16.9	78.6	29.6	23.7	NA	6.65	16.8	33.1	226	38.5	386
Mercury	0.18	6	0.786	1.18	1.29	0.164	0.081	0.782	0.073	NA	ND	0.124	ND	0.477	1.38	ND
Nickel	30	10,000	18	17.2	16.3	17.2	13.1	16.2	12.9	NA	0.107 J	8.75	13.1	18	294	1.35
Selenium	3.9	6,800	ND	ND	ND	ND	ND	ND	ND	NA	0.123 J	ND	ND	ND	2.61	0.439 J
Silver	2.0	6,800	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	0.159 J	ND	ND
Thallium	NS	NS	0.176 J	0.188 J	ND	ND	ND	ND	ND	NA	ND	ND	ND	0.277 J	1.75	ND
Zinc	109	10,000	109	140	72.7	56	69.4	150	46.4	NA	4.99	81.6	81.8	113	685	124

Notes:

All results presented in milligrams per kilogram (mg/kg) or parts per million (ppm)

ND - Compound not detected.

NA - Compound not analyzed.

NS - No NYSDEC SCO available.

J - Estimated result between the reporting limit and method detection limit.

	Reported concentration meets or exceeds the NYSDEC SCO for Industrial Use
	Reported concentration meets or exceeds the NYSDEC SCO for Unrestricted Use

TABLE 2
SUMMARY OF ANALYTICAL RESULTS - GROUNDWATER
JUNE 2019 PHASE II ESA
PROPOSED HUDSON VALLEY PAPERBOARD BCP SITE
1900 RIVER ROAD, CASTLETON-ON-HUDSON, RENSSELAER COUNTY

Analyte/Compound	NYSDEC Groundwater Quality Standard/ Guidance Value	Sample ID		
		TMW-1	TMW-2	TMW-3
Volatile Organic Compounds (VOCs)				
Tetrachloroethene	5	ND	0.53	0.75
Benzene	1	1.8	ND	ND
Toluene	5	1.8 J	ND	ND
Ethylbenzene	5	8.3	ND	ND
Xylenes (Total)	5	7.8	ND	ND
Acetone	50	ND	3.7 J	21
n-butylbenzene	5	3.6 J	ND	ND
sec-butylbenzene	5	6.8	ND	ND
tert-butylbenzene	5	1.9 J	ND	ND
n-propylbenzene	5	38	ND	ND
1,3,5-trimethylbenzene	5	ND	ND	1.2 J
1,2,4-trimethylbenzene	5	ND	ND	2.1 J
Cyclohexane	NS	23 J	ND	ND
Methyl cyclohexane	NS	14 J	ND	ND
Semi-volatile Organic Compounds (SVOCs) - GC-MS				
Bis(2-ethylhexyl) phthalate	5	2.6 J	ND	2.6 J
Dimethyl phthalate	50	ND	1.9 J	1.8 J
Semi-volatile Organic Compounds (SVOCs) - GC-MS-SIM				
Acenaphthene	20	0.31	0.03 J	ND
Fluoranthene	50	0.23	0.30	0.13
Naphthalene	10	0.71	0.09 J	0.06 J
Benzo(a)anthracene	0.002	0.12	0.19	0.08 J
Benzo(a)pyrene	ND	0.12	0.26	0.07 J
Benzo(b)fluoranthene	0.002	0.15	0.37	0.09 J
Benzo(k)fluoranthene	0.002	0.06 J	0.12	0.03 J
Chrysene	0.002	0.12	0.18	0.06 J
Acenaphthylene	NS	0.48	0.04 J	ND
Anthracene	50	0.05 J	0.06 J	0.03 J
Benzo(ghi)perylene	NS	0.11	0.22	0.05 J
Fluorene	50	0.78	0.03 J	ND
Phenanthrene	50	0.36	0.13	0.11
Dibenzo(a,h)anthracene	NS	0.02 J	0.06 J	0.01 J
Indeno(1,2,3-cd)pyrene	5	0.11	0.25	0.05 J
Pyrene	50	0.25	0.30	0.12
2-Methylnaphthalene	NS	1.6	0.03 J	0.07 J
Polychlorinated Biphenyls				
Total PCBs	0.09	0.211	ND	NA
Metals				
Antimony	3	3.18 J	5.09	NA
Arsenic	25	21.03	4.92	NA
Beryllium	3	4.73	0.33 J	NA
Cadmium	5	1.08	0.37	NA
Chromium	50	33.48	1.95	NA
Copper	200	37.97	39.72	NA
Lead	25	802.20	137	NA
Mercury	0.7	3.25	2.88	NA
Nickel	100	43.09	5.23	NA
Selenium	10	25.80	2.87 J	NA
Silver	50	ND	ND	NA
Thallium	0.5	0.18 J	ND	NA
Zinc	2,000	349.10	89.20	NA

Notes:

All results presented in micrograms per liter (ug/L) or parts per billion (ppb)

ND - Compound not detected.

NA - Compound not analyzed.

NS - No NYSDEC GQS available.

J - Estimated Result

Result Exceeds NYSDEC GQS