

Table 1. Summary of Paint Sludge Analytical Results, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date		375-6.8(b) Restricted	OU1-PS-01 4/7/2009	OU1-PS-02 4/8/2009	OU1-PS-03 4/10/2009	OUI-PS-04 4/13/2009	OUI-PS-04 Dup 4/13/2009
VOC							
1,1,1-Trichloroethane	ug/kg	100000	< 6000	< 330	< 400	< 390	< 390
1,1,2,2-Tetrachloroethane	ug/kg	NS	< 2900	< 160	< 190	< 190	< 170
1,1,2-Trichloroethane	ug/kg	NS	< 2900	< 160	< 190	< 190	< 210
1,1-Dichloroethane	ug/kg	26000	< 4400	< 250	< 300	< 290	< 350
1,1-Dichloroethene	ug/kg	100000	< 5900	< 330	< 400	< 390	< 890
1,2,4-Trichlorobenzene	ug/kg	NS	< 4800	< 270	< 320	< 310	< 200
1,2-Dibromo-3-chloropropane	ug/kg	NS	< 17000	< 960	< 1100	< 1100	< 760
1,2-Dibromoethane	ug/kg	NS	< 4600	< 250	< 310	< 300	< 210
1,2-Dichlorobenzene	ug/kg	100000	< 4200	< 230	< 280	< 270	< 240
1,2-Dichloroethane	ug/kg	3100	< 4900	< 270	< 320	< 320	< 410
1,2-Dichloropropane	ug/kg	NS	< 4400	< 250	< 300	< 290	< 340
1,3-Dichlorobenzene	ug/kg	49000	< 3400	< 190	< 230	< 220	< 220
1,4-Dichlorobenzene	ug/kg	13000	< 3600	< 200	< 240	< 230	< 240
2-Butanone (MEK)	ug/kg	100000	< 25000	< 1400	< 1700	< 1600	< 860
2-Hexanone	ug/kg	NS	< 22000	< 1200	< 1500	< 1400	< 1300
4-Methyl-2-pentanone(MIBK)	ug/kg	NS	< 27000	87700	< 1800	140000	95900
Acetone	ug/kg	100000	< 24000	8990	8020	< 1600	< 2700
Benzene	ug/kg	4800	< 4000	2970	912	4200	3240
Bromodichloromethane	ug/kg	NS	< 2900	< 160	< 200	< 190	< 350
Bromoform	ug/kg	NS	< 3800	< 210	< 250	< 250	< 240
Bromomethane	ug/kg	NS	< 10000	< 560	< 670	< 650	< 950
Carbon disulfide	ug/kg	NS	< 5700	< 320	< 380	< 370	< 680
Carbon tetrachloride	ug/kg	2400	< 11000	< 590	< 710	< 690	< 610
Chlorobenzene	ug/kg	100000	< 3400	< 190	< 230	< 220	< 280
Chloroethane	ug/kg	NS	< 7700	< 430	< 520	< 500	< 910
Chloroform	ug/kg	49000	< 5300	< 290	< 350	< 340	< 390
Chloromethane	ug/kg	NS	< 8000	< 450	< 540	< 520	< 390
cis-1,2-Dichloroethene	ug/kg	100000	< 4100	< 230	< 270	< 270	< 240
cis-1,3-Dichloropropene	ug/kg	NS	< 2800	< 150	< 180	< 180	< 240
Cyclohexane	ug/kg	NS	< 4000	< 230	< 270	9950	8980
Dibromochloromethane	ug/kg	NS	< 3100	< 170	< 200	< 200	< 280
Dichlorodifluoromethane	ug/kg	NS	< 18000	< 1000	< 1200	< 1200	< 670
Ethylbenzene	ug/kg	41000	816000	469000 D	1080000 D	2090000	1900000
Freon 113	ug/kg	NS	< 12000	< 680	< 810	< 790	< 1100
Isopropylbenzene	ug/kg	NS	133000	50500	104000	246000	267000
m,p-Xylene	ug/kg	NS	4120000	2420000 D	5040000 D	10500000 D	9120000 D
Methyl Acetate	ug/kg	NS	< 24000	< 1400	< 1600	< 1600	< 1200
Methyl Tert Butyl Ether	ug/kg	100000	< 4000	< 220	< 270	< 260	< 210
Methylcyclohexane	ug/kg	NS	22400 J	14400	24300	71300	56900
Methylene chloride	ug/kg	100000	< 3300	< 180	< 220	< 220	< 640
o-Xylene	ug/kg	NS	1460000	1060000 D	2040000 D	3200000 D	2760000 D
Styrene	ug/kg	NS	< 3300	< 180	< 220	< 210	< 440
Tetrachloroethene	ug/kg	19000	< 5300	308 J	< 350	< 340	< 370
Toluene	ug/kg	100000	437000	996000 D	672000 D	908000	744000
trans-1,2-Dichloroethene	ug/kg	100000	< 3600	< 200	< 240	< 240	< 570
trans-1,3-Dichloropropene	ug/kg	NS	< 2800	< 160	< 190	< 180	< 410
Trichloroethene	ug/kg	21000	< 3300	210 J	250 J	409 J	< 460
Trichlorofluoromethane	ug/kg	NS	< 17000	< 960	< 1200	< 1100	< 1000
Vinyl chloride	ug/kg	900	< 7200	< 400	< 480	< 470	< 910
Xylene (total)	ug/kg	100000	5580000	3470000 D	7080000 D	13700000 D	11900000 D

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Sample ID		375-6.8(b)	OU1-PS-01	OU1-PS-02	OU1-PS-03	OUI-PS-04	OUI-PS-04 Dup
Sample Date		Restricted	4/7/2009	4/8/2009	4/10/2009	4/13/2009	4/13/2009
SVOC							
1,1'-Biphenyl	ug/kg	NS	3970	347 J	1270	4000 J	3180 J
2,4,5-Trichlorophenol	ug/kg	NS	< 410	< 200	< 260	< 220	< 210
2,4,6-Trichlorophenol	ug/kg	NS	< 510	< 250	< 320	< 270	< 260
2,4-Dichlorophenol	ug/kg	NS	< 400	< 200	< 250	< 210	< 210
2,4-Dimethylphenol	ug/kg	NS	< 470	< 230	< 290	< 250	< 240
2,4-Dinitrophenol	ug/kg	NS	< 4100	< 2000	< 2600	< 2200	< 2100
2,4-Dinitrotoluene	ug/kg	NS	< 210	< 100	< 130	< 110	< 110
2,6-Dinitrotoluene	ug/kg	NS	< 170	< 85	< 110	< 93	< 89
2-Chloronaphthalene	ug/kg	NS	< 170	< 83	< 110	< 91	< 88
2-Chlorophenol	ug/kg	NS	< 320	< 160	< 200	< 170	< 160
2-Methylnaphthalene	ug/kg	NS	83400 D	17700	45900 D	56900 D	44500 D
2-Methylphenol	ug/kg	100000	< 410	< 200	< 260	< 220	< 210
2-Nitroaniline	ug/kg	NS	< 280	< 140	< 180	< 150	< 150
2-Nitrophenol	ug/kg	NS	< 400	< 200	< 250	< 220	< 210
3&4-Methylphenol	ug/kg	NS	3050	< 250	< 320	< 270	< 270
3,3'-Dichlorobenzidine	ug/kg	NS	< 660	< 320	< 410	< 350	< 340
3-Nitroaniline	ug/kg	NS	< 160	< 76	< 97	< 83	< 80
4,6-Dinitro-o-cresol	ug/kg	NS	< 410	< 200	< 250	< 220	< 210
4-Bromophenyl phenyl ether	ug/kg	NS	< 210	< 100	< 130	< 110	< 110
4-Chloro-3-methyl phenol	ug/kg	NS	< 460	< 230	< 290	< 250	< 240
4-Chloroaniline	ug/kg	NS	< 160	< 76	< 97	< 83	< 80
4-Chlorophenyl phenyl ether	ug/kg	NS	< 260	< 120	< 160	< 140	< 130
4-Nitroaniline	ug/kg	NS	< 240	< 120	< 150	< 130	< 120
4-Nitrophenol	ug/kg	NS	< 490	< 240	< 310	< 260	< 250
Acenaphthene	ug/kg	100000	< 200	188 J	< 130	< 110	< 100
Acenaphthylene	ug/kg	100000	< 160	< 80	< 100	< 88	< 85
Acetophenone	ug/kg	NS	< 190	< 92	< 120	< 100	< 97
Anthracene	ug/kg	100000	< 170	< 84	< 110	< 92	< 89
Atrazine	ug/kg	NS	< 240	< 120	< 150	< 130	< 120
Benzaldehyde	ug/kg	NS	< 1100	< 550	< 700	< 600	< 580
Benzo(a)anthracene	ug/kg	1000	< 230	< 110	< 140	< 120	< 120
Benzo(a)pyrene	ug/kg	1000	< 160	< 78	< 99	< 85	< 82
Benzo(b)fluoranthene	ug/kg	1000	< 210	< 100	< 130	< 110	< 110
Benzo(g,h,i)perylene	ug/kg	100000	< 190	< 91	< 120	< 100	< 96
Benzo(k)fluoranthene	ug/kg	3900	< 190	< 94	< 120	< 100	< 100
bis(2-Chloroethoxy)methane	ug/kg	NS	< 190	< 93	< 120	< 100	< 99
bis(2-Chloroethyl)ether	ug/kg	NS	< 180	< 89	< 110	< 97	< 94
bis(2-Chloroisopropyl)ether	ug/kg	NS	< 200	< 98	< 120	< 110	< 100
bis(2-Ethylhexyl)phthalate	ug/kg	NS	4500	7670	18400	6660 J	4650 J
Butyl benzyl phthalate	ug/kg	NS	< 190	< 93	< 120	< 100	< 99
Caprolactam	ug/kg	NS	< 310	< 150	< 190	< 160	< 160
Carbazole	ug/kg	NS	< 160	< 80	< 100	< 87	< 84
Chrysene	ug/kg	3900	< 180	< 86	< 110	< 95	< 91
Dibenzo(a,h)anthracene	ug/kg	330	< 180	< 89	< 110	< 98	< 95
Dibenzofuran	ug/kg	59000	421 J	< 88	< 110	416 J	301 J
Diethyl phthalate	ug/kg	NS	< 170	< 85	< 110	< 93	< 89
Dimethyl phthalate	ug/kg	NS	< 180	< 89	< 110	< 98	< 95
Di-n-butyl phthalate	ug/kg	NS	2040	< 120	1530	1050 J	793 J
Di-n-octyl phthalate	ug/kg	NS	< 170	< 83	< 110	< 91	< 88
Fluoranthene	ug/kg	100000	< 170	< 85	246	< 93	< 90
Fluorene	ug/kg	100000	640	< 88	< 110	634 J	454 J
Hexachlorobenzene	ug/kg	1200	< 220	< 110	< 140	< 120	< 110
Hexachlorobutadiene	ug/kg	NS	< 180	< 90	< 110	< 98	< 95
Hexachlorocyclopentadiene	ug/kg	NS	< 360	< 180	< 220	< 190	< 190
Hexachloroethane	ug/kg	NS	< 250	< 120	< 150	< 130	< 130
Indeno(1,2,3-cd)pyrene	ug/kg	500	< 140	< 69	< 88	< 76	< 73
Isophorone	ug/kg	NS	< 340	< 160	< 210	< 180	< 170
Naphthalene	ug/kg	100000	408000 D	93400 D	353000 D	179000 D	130000 D
Nitrobenzene	ug/kg	NS	< 170	< 85	< 110	< 93	< 89
N-Nitroso-di-n-propylamine	ug/kg	NS	< 240	< 120	< 150	< 130	< 120
N-Nitrosodiphenylamine	ug/kg	NS	< 260	739 J	< 160	< 140	< 130
Pentachlorophenol	ug/kg	6700	< 490	< 240	< 310	< 260	< 260
Phenanthrene	ug/kg	100000	1150	489	886	865 J	699 J
Phenol	ug/kg	100000	< 290	< 140	7620	< 160	< 150
Pyrene	ug/kg	100000	< 170	< 83	333	< 90	< 87

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PCBs							
Aroclor 1016	ug/kg	NS	< 7.1	< 7	< 15	< 15	< 15
Aroclor 1221	ug/kg	NS	< 22	< 22	< 48	< 48	< 46
Aroclor 1232	ug/kg	NS	< 11	< 11	< 24	< 24	< 24
Aroclor 1242	ug/kg	NS	< 21	141 J	< 46	< 46	< 45
Aroclor 1248	ug/kg	NS	< 12	< 12	148	< 27	< 26
Aroclor 1254	ug/kg	NS	< 7.7 J	181	< 17	387 J	353 J
Aroclor 1260	ug/kg	NS	< 7 J	62.7	< 15	247 J	514 J
METALS							
Aluminum	mg/kg	NS	2120	4420 J	2640	2000 J	2680 J
Antimony	mg/kg	NS	19	3.6 J	12.2	7 J	664 J
Arsenic	mg/kg	16	< 6.9	< 4.4	< 2.4	6.6	78.1
Barium	mg/kg	400	10500	11600	5720	7660	10400
Beryllium	mg/kg	72	< 0.57	< 0.55 J	< 0.6 J	< 1.2	< 1.7
Cadmium	mg/kg	4	3.1	2.2	4.6	4.6	8.5
Calcium	mg/kg	NS	13500	1680 J	1910 J	8420 J	11500 J
Chromium	mg/kg	NS	200	127 J	346	257	620
Cobalt	mg/kg	NS	< 5.7	< 5.5 J	< 6 J	8.4	14.6
Copper	mg/kg	270	38.9	335	159	94.4	341
Iron	mg/kg	NS	30000	17600 J	11400 J	61900 J	61900 J
Lead	mg/kg	400	1660	603 J	2160 J	748	17200
Magnesium	mg/kg	NS	2130	1230 J	620	1950 J	2280 J
Manganese	mg/kg	2000	107	56.6 J	38.3 J	262 J	269 J
Mercury	mg/kg	1	0.044	0.96	0.091	0.092	0.049
Nickel	mg/kg	310	53.3	37.1 J	15.9 J	439	123
Potassium	mg/kg	NS	< 1100	< 1100 J	< 1200 J	< 1200 J	< 1100 J
Selenium	mg/kg	180	< 2.3	< 2.2	< 2.4	< 2.4	< 6.8
Silver	mg/kg	180	< 1.1	< 1.1	< 1.2	< 1.2	< 1.1
Sodium	mg/kg	NS	2600	< 1100 J	< 1200 J	1220	4130
Thallium	mg/kg	NS	< 3.4	< 2.2	< 3.6	< 1.2	< 3.4
Vanadium	mg/kg	NS	< 5.7	< 5.5	< 6	< 6.1	< 5.7
Zinc	mg/kg	10000	669	265 J	385 J	2010	5460
METALS- TCLP							
Arsenic	mg/l	NS	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Barium	mg/l	NS	1.7	2.8	3.7	8.6	13.7
Cadmium	mg/l	NS	0.0051	0.0085	< 0.005	0.01	0.011
Chromium	mg/l	NS	0.026	0.06	0.037	0.052	0.047
Lead	mg/l	NS	69.9	7.2	6.7	74.7	54.6
Mercury	mg/l	NS	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Selenium	mg/l	NS	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Silver	mg/l	NS	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Other							
Solids, Percent	%	NS	85.9	88.3	80.7	80.7	83.8

Notes:

ug/kg Micrograms per kilogram

mg/kg Milligrams per kilogram

mg/l Milligrams per liter

NS No standard

D Result reported from dilution analysis

J Estimated result

BOLD Result exceeds 375-6.8(b) restricted residential use soil cleanup objective.

Table 2. Remedial Action Cleanup Criteria, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

	Units	375-6.8(b) NYS Restricted Residential	375-6.8(b) NYS Protection of Groundwater
VOCs			
1,1,1-Trichloroethane	mg/kg	100	0.68
1,1,2,2-Tetrachloroethane	mg/kg	NS	NS
1,1,2-Trichloroethane	mg/kg	NS	NS
1,1-Dichloroethane	mg/kg	26	0.27
1,1-Dichloroethene	mg/kg	100	0.33
1,2,4-Trichlorobenzene	mg/kg	NS	NS
1,2-Dibromo-3-chloropropane	mg/kg	NS	NS
1,2-Dibromoethane	mg/kg	NS	NS
1,2-Dichlorobenzene	mg/kg	100	1.1
1,2-Dichloroethane	mg/kg	3.1	0.02
1,2-Dichloropropane	mg/kg	NS	NS
1,3-Dichlorobenzene	mg/kg	49	2.4
1,4-Dichlorobenzene	mg/kg	13	1.8
2-Butanone (MEK)	mg/kg	100	0.12
2-Hexanone	mg/kg	NS	NS
4-Methyl-2-pentanone(MIBK)	mg/kg	NS	NS
Acetone	mg/kg	100	0.05
Benzene	mg/kg	4.8	0.06
Bromodichloromethane	mg/kg	NS	NS
Bromoform	mg/kg	NS	NS
Bromomethane	mg/kg	NS	NS
Carbon disulfide	mg/kg	NS	NS
Carbon tetrachloride	mg/kg	2.4	0.76
Chlorobenzene	mg/kg	100	1.1
Chloroethane	mg/kg	NS	NS
Chloroform	mg/kg	49	0.37
Chloromethane	mg/kg	NS	NS
cis-1,2-Dichloroethene	mg/kg	100	0.25
cis-1,3-Dichloropropene	mg/kg	NS	NS
Cyclohexane	mg/kg	NS	NS
Dibromochloromethane	mg/kg	NS	NS
Dichlorodifluoromethane	mg/kg	NS	NS
Ethylbenzene	mg/kg	41	1
Freon 113	mg/kg	NS	NS
Isopropylbenzene	mg/kg	NS	NS
Methyl Acetate	mg/kg	NS	NS
Methyl Tert Butyl Ether	mg/kg	100	0.93
Methylcyclohexane	mg/kg	NS	NS
Methylene chloride	mg/kg	100	0.05
Styrene	mg/kg	NS	NS
Tetrachloroethene	mg/kg	19	1.3
Toluene	mg/kg	100	0.7
trans-1,2-Dichloroethene	mg/kg	100	0.19
trans-1,3-Dichloropropene	mg/kg	NS	NS
Trichloroethene	mg/kg	21	0.47
Trichlorofluoromethane	mg/kg	NS	NS
Vinyl chloride	mg/kg	0.9	0.02
Xylene (total)	mg/kg	100	1.6
Total TIC, Volatile	mg/kg	NS	NS

Table 2. Remedial Action Cleanup Criteria, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

	Units	375-6.8(b) NYS Restricted Residential	375-6.8(b) NYS Protection of Groundwater
SVOCs			
1,1'-Biphenyl	mg/kg	NS	NS
2,4,5-Trichlorophenol	mg/kg	NS	NS
2,4,6-Trichlorophenol	mg/kg	NS	NS
2,4-Dichlorophenol	mg/kg	NS	NS
2,4-Dimethylphenol	mg/kg	NS	NS
2,4-Dinitrophenol	mg/kg	NS	NS
2,4-Dinitrotoluene	mg/kg	NS	NS
2,6-Dinitrotoluene	mg/kg	NS	NS
2-Chloronaphthalene	mg/kg	NS	NS
2-Chlorophenol	mg/kg	NS	NS
2-Methylnaphthalene	mg/kg	NS	NS
2-Methylphenol	mg/kg	100	0.33
2-Nitroaniline	mg/kg	NS	NS
2-Nitrophenol	mg/kg	NS	NS
3&4-Methylphenol	mg/kg	NS	NS
3,3'-Dichlorobenzidine	mg/kg	NS	NS
3-Nitroaniline	mg/kg	NS	NS
4,6-Dinitro-o-cresol	mg/kg	NS	NS
4-Bromophenyl phenyl ether	mg/kg	NS	NS
4-Chloro-3-methyl phenol	mg/kg	NS	NS
4-Chloroaniline	mg/kg	NS	NS
4-Chlorophenyl phenyl ether	mg/kg	NS	NS
4-Nitroaniline	mg/kg	NS	NS
4-Nitrophenol	mg/kg	NS	NS
Acenaphthene	mg/kg	100	98
Acenaphthylene	mg/kg	100	107
Acetophenone	mg/kg	NS	NS
Anthracene	mg/kg	100	1,000
Atrazine	mg/kg	NS	NS
Benzaldehyde	mg/kg	NS	NS
Benzo(a)anthracene	mg/kg	1	1
Benzo(a)pyrene	mg/kg	1	22
Benzo(b)fluoranthene	mg/kg	1	1.7
Benzo(g,h,i)perylene	mg/kg	100	1,000
Benzo(k)fluoranthene	mg/kg	3.9	1.7
bis(2-Chloroethoxy)methane	mg/kg	NS	NS
bis(2-Chloroethyl)ether	mg/kg	NS	NS
bis(2-Chloroisopropyl)ether	mg/kg	NS	NS
bis(2-Ethylhexyl)phthalate	mg/kg	NS	NS
Butyl benzyl phthalate	mg/kg	NS	NS
Caprolactam	mg/kg	NS	NS
Carbazole	mg/kg	NS	NS
Chrysene	mg/kg	3.9	1
Dibenzo(a,h)anthracene	mg/kg	0.33	1,000
Dibenzofuran	mg/kg	59	210
Diethyl phthalate	mg/kg	NS	NS
Dimethyl phthalate	mg/kg	NS	NS
Di-n-butyl phthalate	mg/kg	NS	NS
Di-n-octyl phthalate	mg/kg	NS	NS
Fluoranthene	mg/kg	100	1,000
Fluorene	mg/kg	100	386
Hexachlorobenzene	mg/kg	1.2	3.2
Hexachlorobutadiene	mg/kg	NS	NS
Hexachlorocyclopentadiene	mg/kg	NS	NS
Hexachloroethane	mg/kg	NS	NS

Table 2. Remedial Action Cleanup Criteria, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

	Units	375-6.8(b) NYS Restricted Residential	375-6.8(b) NYS Protection of Groundwater
SVOCs continued			
Indeno(1,2,3-cd)pyrene	mg/kg	0.5	8.2
Isophorone	mg/kg	NS	NS
Naphthalene	mg/kg	100	12
Nitrobenzene	mg/kg	NS	NS
N-Nitroso-di-n-propylamine	mg/kg	NS	NS
N-Nitrosodiphenylamine	mg/kg	NS	NS
Pentachlorophenol	mg/kg	6.7	0.8
Phenanthrene	mg/kg	100	1,000
Phenol	mg/kg	100	0.33
Pyrene	mg/kg	100	1,000
Total TIC, Semi-Volatile	mg/kg	NS	NS
PCBs			
Aroclor 1016	mg/kg	NS	NS
Aroclor 1221	mg/kg	NS	NS
Aroclor 1232	mg/kg	NS	NS
Aroclor 1242	mg/kg	NS	NS
Aroclor 1248	mg/kg	NS	NS
Aroclor 1254	mg/kg	NS	NS
Aroclor 1260	mg/kg	NS	NS
Aroclor 1262	mg/kg	NS	NS
Aroclor 1268	mg/kg	NS	NS
METALS			
Aluminum	mg/kg	NS	NS
Antimony	mg/kg	NS	NS
Arsenic	mg/kg	16	16
Barium	mg/kg	400	820
Beryllium	mg/kg	72	47
Cadmium	mg/kg	4.3	7.5
Calcium	mg/kg	NS	NS
Chromium	mg/kg	NS	NS
Cobalt	mg/kg	NS	NS
Copper	mg/kg	270	1,720
Iron	mg/kg	NS	NS
Lead	mg/kg	400	450
Magnesium	mg/kg	NS	NS
Manganese	mg/kg	2,000	2,000
Mercury	mg/kg	0.81	0.73
Nickel	mg/kg	310	130
Potassium	mg/kg	NS	NS
Selenium	mg/kg	180	4
Silver	mg/kg	180	8.3
Sodium	mg/kg	NS	NS
Thallium	mg/kg	NS	NS
Vanadium	mg/kg	NS	NS
Zinc	mg/kg	10,000	2,480
Other			
Solids, Percent	%	NS	NS

Notes:

mg/kg milligram per kilogram

NS No standard

Table 3. Summary of Summa Canister Analytical Results, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	NYEPA National Ambient		BBR (011613) 1/17/2013	BBR (011713) 1/18/2013	BBW (011613) 1/17/2013	BBW (011713) 1/18/2013	BR(021313) 2/14/2013	BR (021913) 2/20/2013	BR (022013) 2/21/2013	BR (022113) 2/22/2013	BR(022213) 2/22/2013	BR (022513) 2/25/2013	BR (022613) 2/27/2013	BR (022713) 2/28/2013	BR (022813) 3/1/2013	BR (030113) 3/1/2013	BR (030413) 3/5/2013	BR (030513) 3/6/2013	BR (030613) 3/7/2013	
VOCS																				
1,1,1-Trichloroethane	5	ug/m3	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	R	< 0.13	< 0.13	< 0.13	< 0.13	R	
1,1,2,2-Tetrachloroethane	0.7	ug/m3	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	R	< 0.23	< 0.23	< 0.23	< 0.23	R	
1,1,2-Trichloroethane	6	ug/m3	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	R	< 0.19	< 0.19	< 0.19	< 0.19	R	
1,1-Dichloroethane	0.16	ug/m3	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	R	< 0.077	< 0.077	< 0.077	< 0.077	R	
1,1-Dichloroethene	18	ug/m3	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	R	< 0.091	< 0.091	< 0.091	< 0.091	R	
1,2,4-Trichlorobenzene	1.3	ug/m3	< 0.71	< 0.71	< 0.71	< 0.71 J	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	R	< 0.71	< 0.71	< 0.71	< 0.71	R	
1,2,4-TRIMETHYLBENZENE	6.7	ug/m3	< 0.14	< 0.14	< 0.14	1.6	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	R	< 0.14	< 0.14	< 0.14	0.59 J	R	
1,2-Dibromoethane	2.5	ug/m3	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	R	< 0.22	< 0.22	< 0.22	< 0.22	R	
1,2-Dichlorobenzene	7.8	ug/m3	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	R	< 0.23	< 0.23	< 0.23	< 0.23	R	
1,2-Dichloroethane	1.6	ug/m3	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	R	< 0.11	< 0.11	< 0.11	< 0.11	R	
1,2-Dichloropropane	0.74	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	R	< 0.16	< 0.16	< 0.16	< 0.16	R	
1,2-DICHLOROTETRAFLUOROETHANE;FLUOROCARBON 114	0.31	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	R	< 0.16	< 0.16	< 0.16	< 0.16	R	
1,3,5-Trimethylbenzene	4	ug/m3	< 0.22	< 0.22	< 0.22	0.64 J	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	R	< 0.22	< 0.22	< 0.22	< 0.22	R	
1,3-BUTADIENE	NS	ug/m3	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	R	< 0.058	< 0.058	< 0.058	< 0.058	R	
1,3-Dichlorobenzene	5.3	ug/m3	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	R	< 0.17	< 0.17	< 0.17	< 0.17	R	
1,4-Dichlorobenzene	6	ug/m3	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	R	< 0.36	< 0.36	< 0.36	< 0.36	R	
1,4-Dioxane	NS	ug/m3	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	R	< 0.43	< 0.43	< 0.43	< 0.43	R	
2,2,4-TRIMETHYLPENTANE	9.3	ug/m3	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	1.4	< 0.14	< 0.14	< 0.14	R	< 0.14	< 0.14	< 0.14	< 0.14	R	
2-Butanone (MEK)	1.9	ug/m3	0.41 J	< 0.12	0.47 J	< 0.12	0.86	0.44 J	0.35 J	0.38 J	< 0.12	0.59	0.83	0.47 J	4.4	0.44 J	< 0.12	0.5 J	R	
2-CHLOROTOLUENE	0.59	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	R	< 0.16	< 0.16	< 0.16	< 0.16	R	
2-Hexanone	NS	ug/m3	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	R	< 0.21	< 0.21	< 0.21	< 0.21	R	
3-Chloropropene	NS	ug/m3	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	R	< 0.11	< 0.11	< 0.11	< 0.11	R	
4-ETHYLTOLUENE	NS	ug/m3	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	R	< 0.14	< 0.14	< 0.14	< 0.14	R	
4-Methyl-2-pentanone(MIBK)	NS	ug/m3	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	R	< 0.34	< 0.34	< 0.34	< 0.34	R	
Acetone	16	ug/m3	2.9	2.2	3.1	3.8	7.6	4	3.6	< 0.16	4.5	5	6.4	4.8 J	22	4	3.1	3.3	2.9 J	
Benzene	8.9	ug/m3	0.96	0.58 J	1.9	0.77	0.83	1.1	0.61 J	0.67	0.73	1.1	0.77	0.96 J	1.1	0.99	0.48 J	0.67	0.38 J	
BENZYL CHLORIDE	0.07	ug/m3	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	R	< 0.25	< 0.25	< 0.25	< 0.25	R	
Bromodichloromethane	0.01	ug/m3	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	R	< 0.21	< 0.21	< 0.21	< 0.21	R	
Bromoethene	NS	ug/m3	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	R	< 0.12	< 0.12	< 0.12	< 0.12	R	
Bromoform	0	ug/m3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	R	< 0.3	< 0.3	< 0.3	< 0.3	R	
Bromomethane	12	ug/m3	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	R	< 0.093	< 0.093	< 0.093	< 0.093	R	
Carbon disulfide	0.3	ug/m3	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	R	< 0.075	< 0.075	< 0.075	< 0.075	R	
Carbon tetrachloride	1	ug/m3	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	0.6 J	< 0.13	0.61 J	< 0.13	< 0.13	R	
Chlorobenzene	1.5	ug/m3	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	R	< 0.18	< 0.18	< 0.18	< 0.18	R	
Chloroethane	220	ug/m3	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	R	< 0.092	< 0.092	< 0.092	< 0.092	R	
Chloroform	3.1	ug/m3	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	R	< 0.13	< 0.13	< 0.13	< 0.13	R	
Chloromethane	1.5	ug/m3	0.91	0.81	0.89	1.1	2.5	1.2	1.5	1.3	1.4	1.3	2	1.8 J	1.8	1.8	1.2	1.3	1.4 J	
cis-1,2-Dichloroethene	1.3	ug/m3	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	R	< 0.099	< 0.099	< 0.099	< 0.099	R	
cis-1,3-Dichloropropene	110	ug/m3	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	R	< 0.15	< 0.15	< 0.15	< 0.15	R	
Cyclohexane	NS	ug/m3	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	0.93	< 0.17	< 0.17	< 0.17	R	< 0.17	< 0.17	< 0.17	< 0.17	R	
Dibromochloromethane	0.27	ug/m3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	R	< 0.3	< 0.3	< 0.3	< 0.3	R	
Dichlorodifluoromethane	2.2	ug/m3	2.8	2.5	2.4	2.6	2.2	2.3	2.4	2.4	2.4	2.8	3	2.9 J	3	3	2.8	2.8	2.7 J	
ETHANOL	NS	ug/m3	4	2.4	2.3	4.9	2.8	2.8	1.7	2.3	3.6	3.6	2.6	3 J	13	2.6	1.3	3.2	1.3 J	
ETHYL ACETATE	NS	ug/m3	1.7	1	< 0.47	< 0.47	8.6	1.7	0.97	< 0.47	3.6	< 0.47	5.8	4 J	1.9	1	< 0.47	< 0.47	2.2 J	
Ethylbenzene	20	ug/m3	< 0.13	< 0.13	0.83 J	0.83 J	< 0.13	< 0.13	< 0.13	< 0.13	0.48 J	< 0.13	0.78 J	0.43 J	< 0.13	< 0.13	< 0.13	1.5	R	
Freon 113	2.7	ug/m3	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	R	< 0.21	< 0.21	< 0.21	< 0.21	R	
Hexachlorobutadiene	0.38	ug/m3	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	R	< 0.32	< 0.32	< 0.32	< 0.32	R	
HEXANE	13	ug/m3	< 0.18	< 0.18	0.63 J	0.53 J	< 0.18	0.39 J	1.7	44.4	< 0.18	< 0.18	< 0.18	0.42 J	0.42 J	< 0.18	< 0.18	< 0.18	R	
ISOPROPYL ALCOHOL (MANUFACTURING-STRONG ACID	NS	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	1.4	0.47 J	0.37 J	0.59	< 0.16	< 0.16	0.61	0.39 J	1.2	< 0.16	< 0.16	< 0.16	R
METHYL METHACRYLATE	NS	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	R	< 0.16	< 0.16	< 0.16	< 0.16	R	
Methyl Tert Butyl Ether	NS	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	R	< 0.16	< 0.16	< 0.16	< 0.16	R	
Methylene chloride	5.6	ug/m3	0.83	< 0.19	< 0.19	0.73	1.2	0.97	0.76	0.8	1.2	1	0.94	0.97 J	1.1	1.1	0.76	0.76	0.73 J	
N-HEPTANE	6.6	ug/m3	< 0.11	< 0.11	< 0.11	0.49 J	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	0.66 J	0.57 J	< 0.11	< 0.11	< 0.11	0.61 J	R	
PROPYLENE (PROPENE)	NS	ug/m3	< 0.058	< 0.058	2.1	< 0.058	< 0.058	< 0.058	1.9	33.5	< 0.058	< 0.058	< 0.058	R	< 0.058	1.5	< 0.058	< 0.058	R	
Styrene	1.5	ug/m3	< 0.11	< 0																

Table 3. Summary of Summa Canister Analytical Results, Operable Unit 1, Ramapo Paint Sludge Site.

Sample ID Sample Date	NYEPA National Ambient		BR (030713) 3/8/2013	BR (030813) 3/8/2013	BR (031113) 3/12/2013	BR (031213) 3/13/2013	BR (031313) 3/14/2013	BR (031413) 3/15/2013	BR (031513) 3/16/2013	BR (031613) 3/16/2013	BR (031813) 3/19/2013	BR (031913) 3/20/2013	BR (032013) 3/21/2013	BR (032113) 3/22/2013	BR (032213) 3/22/2013	BR (032513) 3/26/2013	BR (032613) 3/27/2013	BR (032813) 3/29/2013	BR (032913) 3/29/2013
VOCs																			
1,1,1-Trichloroethane	5	ug/m3	R	< 0.13	R	< 0.39 J	R	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
1,1,2,2-Tetrachloroethane	0.7	ug/m3	R	< 0.23	R	< 0.69 J	R	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
1,1,2-Trichloroethane	6	ug/m3	R	< 0.19	R	< 0.55 J	R	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
1,1-Dichloroethane	0.16	ug/m3	R	< 0.077	R	< 0.23 J	R	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
1,1-Dichloroethene	18	ug/m3	R	< 0.091	R	< 0.27 J	R	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091
1,2,4-Trichlorobenzene	1.3	ug/m3	R	< 0.71	R	< 2.1 J	R	< 0.71	< 0.71 J	< 0.71 J	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71
1,2,4-TRIMETHYLBENZENE	6.7	ug/m3	R	< 0.14	R	< 0.42 J	R	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	0.93 J	< 0.14	< 0.14
1,2-Dibromoethane	2.5	ug/m3	R	< 0.22	R	< 0.66 J	R	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
1,2-Dichlorobenzene	7.8	ug/m3	R	< 0.23	R	< 0.66 J	R	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
1,2-Dichloroethane	1.6	ug/m3	R	< 0.11	R	< 0.32 J	R	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
1,2-Dichloropropane	0.74	ug/m3	R	< 0.16	R	< 0.46 J	R	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
1,2-DICHLOROTETRAFLUOROETHANE;FLUOROCARBON 114	0.31	ug/m3	R	< 0.16	R	< 0.48 J	R	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
1,3,5-Trimethylbenzene	4	ug/m3	R	< 0.22	R	< 0.64 J	R	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	0.49 J	< 0.22	< 0.22
1,3-BUTADIENE	NS	ug/m3	R	< 0.058	R	< 0.17 J	R	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058
1,3-Dichlorobenzene	5.3	ug/m3	R	< 0.17	R	< 0.51 J	R	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
1,4-Dichlorobenzene	6	ug/m3	R	< 0.36	R	< 1.1 J	R	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
1,4-Dioxane	NS	ug/m3	R	< 0.43	R	< 1.3 J	R	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43
2,2,4-TRIMETHYLPENTANE	9.3	ug/m3	R	< 0.14	R	< 0.43 J	R	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
2-Butanone (MEK)	1.9	ug/m3	1.5 J	< 0.12	0.65 J	< 0.35 J	0.8 J	0.38 J	< 0.12	0.97	< 0.12	< 0.12	< 0.12	< 0.12	0.53 J	0.74	< 0.12	< 0.12	0.38 J
2-CHLOROTOLUENE	0.59	ug/m3	R	< 0.16	R	< 0.48 J	R	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
2-Hexanone	NS	ug/m3	R	< 0.21	R	< 0.61 J	R	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
3-Chloropropene	NS	ug/m3	R	< 0.11	R	< 0.31 J	R	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
4-ETHYLTOLUENE	NS	ug/m3	R	< 0.14	R	< 0.41 J	R	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
4-Methyl-2-pentanone(MIBK)	NS	ug/m3	R	< 0.34	R	< 1 J	R	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
Acetone	16	ug/m3	5.9 J	2.9	5.5 J	6.7 J	4.8 J	3.8	2.6	5.9	2.1	4.8	3.6	5	4.8	8.1	2.6	3.8	5
Benzene	8.9	ug/m3	0.51 J	0.67	0.77 J	0.89 J	0.89 J	0.48 J	0.42 J	0.35 J	0.45 J	0.51 J	0.48 J	0.51 J	< 0.093	0.58 J	0.48 J	0.38 J	0.38 J
BENZYL CHLORIDE	0.07	ug/m3	R	< 0.25	R	< 0.72 J	R	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Bromodichloromethane	0.01	ug/m3	R	< 0.21	R	< 0.6 J	R	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Bromoethene	NS	ug/m3	R	< 0.12	R	< 0.35 J	R	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Bromoform	0	ug/m3	R	< 0.3	R	< 0.88 J	R	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bromomethane	12	ug/m3	R	< 0.093	R	< 0.28 J	R	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093
Carbon disulfide	0.3	ug/m3	3.4 J	< 0.075	R	< 0.21 J	R	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075
Carbon tetrachloride	1	ug/m3	R	< 0.13	R	< 0.36 J	R	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Chlorobenzene	1.5	ug/m3	R	< 0.18	R	< 0.55 J	R	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Chloroethane	220	ug/m3	R	< 0.092	R	< 0.26 J	R	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092
Chloroform	3.1	ug/m3	R	< 0.13	R	< 0.37 J	R	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Chloromethane	1.5	ug/m3	0.97 J	1	0.93 J	< 0.33 J	1 J	1.4	0.91	0.89	0.95	0.97	1	0.91	0.97	0.76	0.83	1.1	0.99
cis-1,2-Dichloroethene	1.3	ug/m3	R	< 0.099	R	< 0.29 J	R	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099
cis-1,3-Dichloropropene	110	ug/m3	R	< 0.15	R	< 0.44 J	R	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Cyclohexane	NS	ug/m3	R	< 0.17	R	< 0.52 J	R	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Dibromochloromethane	0.27	ug/m3	R	< 0.3	R	< 0.85 J	R	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Dichlorodifluoromethane	2.2	ug/m3	1.8 J	1.8	1.8 J	2.1 J	1.9 J	2.8	2.2	2.1	2.3	2.3	2.4	2.4	2.5	2.4	2.5	2.8	2.7
ETHANOL	NS	ug/m3	2.3 J	1.1	4.7 J	4.9 J	2.4 J	1.9	< 0.32	4.9	1.4	1.9	< 0.32	3.6	1.4	3.8	1.7	1.8	8.1
ETHYL ACETATE	NS	ug/m3	0.9 J	< 0.47	1.7 J	2.7 J	4 J	0.68 J	0.65 J	2.4	2.1	< 0.47	< 0.47	2.5	2.4	8.3	3	9.4	3
Ethylbenzene	20	ug/m3	R	< 0.13	0.83 J	2.2 J	R	< 0.13	< 0.13	< 0.13	0.74 J	0.52 J	0.43 J	< 0.13	< 0.13	< 0.13	2.9	< 0.13	< 0.13
Freon 113	2.7	ug/m3	R	< 0.21	R	< 0.63 J	0.74 J	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Hexachlorobutadiene	0.38	ug/m3	R	< 0.32	R	< 0.96 J	R	< 0.32	< 0.32	< 0.32 J	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
HEXANE	13	ug/m3	R	< 0.18	0.56 J	< 0.53 J	R	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
ISOPROPYL ALCOHOL (MANUFACTURING-STRONG ACID	NS	ug/m3	0.59 J	< 0.16	1.2 J	< 0.16	R	0.23 J	< 0.16	0.88	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	0.54	0.59	< 0.16	< 0.16
METHYL METHACRYLATE	NS	ug/m3	R	< 0.16	R	< 0.45 J	R	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Methyl Tert Butyl Ether	NS	ug/m3	R	< 0.16	R	< 0.47 J	R	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Methylene chloride	5.6	ug/m3	0.8 J	0.97	1.1 J	3.2 J	0.97 J	0.94	0.83	0.94	0.69	0.83	2.3	1.3	2.4	0.9	0.8	0.97	1.6
N-HEPTANE	6.6	ug/m3	R	< 0.															

Table 3. Summary of Summa Canister Analytical Results, Operable Unit 1, Ramapo Paint Sludge Site.

Sample ID Sample Date	NYEPA National Ambient		BR (040113) 4/2/2013	BR (040213) 4/3/2013	BR (040313) 4/4/2013	BR (040413) 4/5/2013	BR (040513) 4/5/2013	BR (040813) 4/8/2013	BR (040913) 4/10/2013	BR (041013) 4/11/2013	BR (041113) 4/12/2013	BR (041513) 4/16/2013	BR (041613) 4/17/2013	BR (041713) 4/18/2013	BR (041813) 4/18/2013	BR (041913) 4/19/2013	BR (042213) 4/23/2013	BR (042313) 4/24/2013	BR (042413) 4/25/2013
VOCS																			
1,1,1-Trichloroethane	5	ug/m3	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
1,1,2,2-Tetrachloroethane	0.7	ug/m3	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
1,1,2-Trichloroethane	6	ug/m3	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
1,1-Dichloroethane	0.16	ug/m3	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
1,1-Dichloroethene	18	ug/m3	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091
1,2,4-Trichlorobenzene	1.3	ug/m3	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71 J	< 0.71 J	< 0.71	< 0.71	< 0.71
1,2,4-TRIMETHYLBENZENE	6.7	ug/m3	< 0.14	< 0.14	< 0.14	0.64 J	1	8.8	2	1.5	0.98	10	< 0.14	6.4	16	5.4	5.4	2.8	10
1,2-Dibromoethane	2.5	ug/m3	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
1,2-Dichlorobenzene	7.8	ug/m3	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
1,2-Dichloroethane	1.6	ug/m3	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
1,2-Dichloropropane	0.74	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
1,2-DICHLOROTETRAFLUOROETHANE;FLUOROCARBON 114	0.31	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
1,3,5-Trimethylbenzene	4	ug/m3	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	2.9	0.84 J	0.54 J	< 0.22	3.3	< 0.22	2.4	4.9	1.8	2.1	0.98	3.6
1,3-BUTADIENE	NS	ug/m3	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058
1,3-Dichlorobenzene	5.3	ug/m3	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
1,4-Dichlorobenzene	6	ug/m3	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
1,4-Dioxane	NS	ug/m3	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43
2,2,4-TRIMETHYLPENTANE	9.3	ug/m3	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	0.47 J	< 0.14	< 0.14	< 0.14
2-Butanone (MEK)	1.9	ug/m3	< 0.12	0.56 J	< 0.12	0.62	1.7	2.4	2.4	1.7	< 0.12	1.2	4.7	1	1.9	1.5	< 0.12	0.65	5
2-CHLOROTOLUENE	0.59	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
2-Hexanone	NS	ug/m3	< 0.21	3.7	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
3-Chloropropene	NS	ug/m3	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
4-ETHYLTOLUENE	NS	ug/m3	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	1.8	0.48 J	0.49 J	< 0.14	2.3	< 0.14	1.7	3.6	1.5	2.1	0.59 J	2.9
4-Methyl-2-pentanone(MIBK)	NS	ug/m3	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	1.4	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	1.1	< 0.34	< 0.34	< 0.34	0.94
Acetone	16	ug/m3	3.3	4	3.1	4.8	25.4	25.7	27.8	11	4.8	23	36.1	9.3	15	9.7	5	8.6	14
Benzene	8.9	ug/m3	0.48 J	< 0.093	0.31 J	0.67	0.51 J	0.86	0.54 J	0.64	0.42 J	32.3	2.4	14	0.61 J	0.54 J	0.8	0.51 J	0.67
BENZYL CHLORIDE	0.07	ug/m3	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Bromodichloromethane	0.01	ug/m3	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Bromoethene	NS	ug/m3	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Bromoform	0	ug/m3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bromomethane	12	ug/m3	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093
Carbon disulfide	0.3	ug/m3	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075
Carbon tetrachloride	1	ug/m3	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Chlorobenzene	1.5	ug/m3	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Chloroethane	220	ug/m3	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092
Chloroform	3.1	ug/m3	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Chloromethane	1.5	ug/m3	1	0.93	1.1	1	1.4	1.4	1.3	1.2	1.2	1.3	1.7	1.2	1.2	1.4	1.1	1	1.2
cis-1,2-Dichloroethene	1.3	ug/m3	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099
cis-1,3-Dichloropropene	110	ug/m3	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Cyclohexane	NS	ug/m3	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	2.4	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Dibromochloromethane	0.27	ug/m3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Dichlorodifluoromethane	2.2	ug/m3	2.5	2.4	2.7	2.6	3.2	2.8	2.8	3	2.9	2.8	2.8	2.8	2.8	2.9	2.8	2.5	2.9
ETHANOL	NS	ug/m3	1.7	1.5	1.3	3.2	33	2450 EDJ	11700 EDJ	16	3.6	2200 EDJ	26.9	9.2	477 EJ	7.3	4	254 EJ	20.3
ETHYL ACETATE	NS	ug/m3	19	1.8	1.4	34	< 0.47	32	3.3 J	35 J	11 J	2.7 J	4 J	2.3 J	1.4 J	13 J	3.3 J	1.8 J	2.6 J
Ethylbenzene	20	ug/m3	0.61 J	< 0.13	0.65 J	0.96	< 0.13	0.48 J	2.9	2.2	1.3	59.1	1	31	15	7.8	14	2.7	11
Freon 113	2.7	ug/m3	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Hexachlorobutadiene	0.38	ug/m3	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
HEXANE	13	ug/m3	< 0.18	< 0.18	< 0.18	0.42 J	0.63 J	1.9	2.3	1.7	0.81	38.4	5.3	19	6	1.7	2	0.67 J	2.4
ISOPROPYL ALCOHOL (MANUFACTURING-STRONG ACID	NS	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	0.91	< 0.16	< 0.16	1.3	1.5	< 0.16	2.4	0.96	< 0.16	2.3	1.2	< 0.16	2.2
METHYL METHACRYLATE	NS	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Methyl Tert Butyl Ether	NS	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	34	2.3	16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Methylene chloride	5.6	ug/m3	1.1	0.87	0.87	2	1.7	2.8	4.9	1.6	1.3	1.4	1.2	1	12	1.5	3.8	2.3	3.4
N-HEPTANE	6.6	ug/m3	< 0.11	< 0.11	< 0.11	0.39 J	< 0.11	< 0.11	2.5	1.4	0.82	4.1	0.94	5.3	7	3.5	6.6		

Table 3. Summary of Summa Canister Analytical Results, Operable Unit 1, Ramapo Paint Sludge Site.

Sample ID Sample Date	NYEPA National Ambient		BR (042513) 4/26/2013	BR (042613) 4/26/2013	BR (042913) 4/29/2013	BR (043013) 4/30/2013	BR (050113) 5/2/2013	BR (050213) 5/3/2013	BR (050313) 5/3/2013	BR (050613) 5/7/2013	BR (050713) 5/8/2013	BR (050813) 5/9/2013	BR (050913) 5/10/2013	BR (051013) 5/10/2013	BR (051313) 5/14/2013	BR (051413) 5/15/2013	BR (051513) 5/16/2013	BR (051613) 5/17/2013	BR (051713) 5/17/2013
VOCS																			
1,1,1-Trichloroethane	5	ug/m3	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.087
1,1,2,2-Tetrachloroethane	0.7	ug/m3	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.21
1,1,2-Trichloroethane	6	ug/m3	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.17
1,1-Dichloroethane	0.16	ug/m3	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.065
1,1-Dichloroethene	18	ug/m3	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.083
1,2,4-Trichlorobenzene	1.3	ug/m3	< 0.71	< 0.71 J	< 0.71 J	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71 J	< 0.71 J	< 0.71 J	< 0.71 J	< 0.59 J
1,2,4-TRIMETHYLBENZENE	6.7	ug/m3	5.4	9.3	9.8	5.9	7.4	8.8	11	2.6	24	12	12	28	0.74 J	1.2	13	10	9.3
1,2-Dibromoethane	2.5	ug/m3	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.21
1,2-Dichlorobenzene	7.8	ug/m3	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.17
1,2-Dichloroethane	1.6	ug/m3	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.065
1,2-Dichloropropane	0.74	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.18
1,2-DICHLOROTETRAFLUOROETHANE;FLUOROCARBON 114	0.31	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.15
1,3,5-Trimethylbenzene	4	ug/m3	1.7	3.9	3.8	2.4	2.8	4.1	4.5	1.2	8.4	4.9	3.8	8.8	< 0.22	0.59 J	5.4	4.4	3.5
1,3-BUTADIENE	NS	ug/m3	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.044
1,3-Dichlorobenzene	5.3	ug/m3	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.15
1,4-Dichlorobenzene	6	ug/m3	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.13
1,4-Dioxane	NS	ug/m3	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.22
2,2,4-TRIMETHYLPENTANE	9.3	ug/m3	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	0.7 J	0.56 J	0.61 J	< 0.14	< 0.14	< 0.14	< 0.14	0.65 J	< 0.14	< 0.098
2-Butanone (MEK)	1.9	ug/m3	0.97	1.9	1.5	1	0.8	1	< 0.12	1.7	1.9	1.8	3.5	1.9	< 0.12	< 0.12	0.88	0.94	0.71
2-CHLOROTOLUENE	0.59	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.1
2-Hexanone	NS	ug/m3	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	0.7 J	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.1
3-Chloropropene	NS	ug/m3	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.088
4-ETHYLTOLUENE	NS	ug/m3	1.2	2.5	3	1.6	1.7	2.9	3	1.1	7.9	4.7	2.3	4.9	< 0.14	< 0.14	4	2.9	2.6
4-Methyl-2-pentanone(MIBK)	NS	ug/m3	< 0.34	1.2	< 0.34	< 0.34	0.86	< 0.34	< 0.34	< 0.34	2.2	2.1	0.98	2.3	< 0.34	< 0.34	0.94	< 0.34	0.74 J
Acetone	16	ug/m3	14	37.1	9	7.8	10	8.3	11	11	20	18	24.9	30.6	3.8	5.7	14	12	18
Benzene	8.9	ug/m3	0.42 J	0.48 J	0.73	0.35 J	0.38 J	0.48 J	0.38 J	0.61 J	0.64	0.61 J	0.42 J	0.35 J	0.32 J	< 0.093	0.67	0.42 J	0.31 J
BENZYL CHLORIDE	0.07	ug/m3	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.13
Bromodichloromethane	0.01	ug/m3	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.17
Bromoethene	NS	ug/m3	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.061
Bromoform	0	ug/m3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.23
Bromomethane	12	ug/m3	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.066
Carbon disulfide	0.3	ug/m3	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	0.97	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.053
Carbon tetrachloride	1	ug/m3	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	0.6 J	0.62 J	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.069
Chlorobenzene	1.5	ug/m3	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.12
Chloroethane	220	ug/m3	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.053
Chloroform	3.1	ug/m3	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.093
Chloromethane	1.5	ug/m3	1.2	1.3	1.2	1.1	1.3	1.2	1.2	1.4	1.5	1.4	1.4	1.5	1.2	1.2	1.3	1.4	1.2
cis-1,2-Dichloroethene	1.3	ug/m3	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.11
cis-1,3-Dichloropropene	110	ug/m3	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.086
Cyclohexane	NS	ug/m3	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	0.72	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.2
Dibromochloromethane	0.27	ug/m3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.25
Dichlorodifluoromethane	2.2	ug/m3	2.7	2.9	2.9	2.8	2.8	2.8	2.7	3.3	3.1	3.1	3	2.9	2.8	2.9	2.9	2.8	2.7
ETHANOL	NS	ug/m3	19.2	46.9	15	3.6	18	1220 EJ	6540 EJ	8.1	49.6	524	43.5	72.4	2.3	7.5	34.5	24.1	48.8
ETHYL ACETATE	NS	ug/m3	3.4 J	2.4 J	< 0.47 J	< 0.47	3.6	2.5	1.7	1.2 J	10 J	1.9 J	3.3 J	3 J	< 0.47 J	0.83 J	15 J	13 J	< 0.21 J
Ethylbenzene	20	ug/m3	2.5	1.7	16	10	8.7	19	20	5.2	31	21	2.5	4.1	1	1.5	15	13	5.6
Freon 113	2.7	ug/m3	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	0.77 J	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.16
Hexachlorobutadiene	0.38	ug/m3	< 0.32	< 0.32 J	< 0.32 J	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32 J	< 0.32	< 0.32	< 0.32	< 0.67
HEXANE	13	ug/m3	1.4	2.3	2.7	1.3	1.7	2.6	2.3	1.3	5.3	3	1	1.8	< 0.18	< 0.18	2.2	1.9	1.1
ISOPROPYL ALCOHOL (MANUFACTURING-STRONG ACID	NS	ug/m3	< 0.16	< 0.16	1.5	0.91	< 0.16	1.5	1.1	1.2	5.9	6.9	7.4	< 0.16	< 0.16	< 0.16	3.4	2.1	< 0.096
METHYL METHACRYLATE	NS	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Methyl Tert Butyl Ether	NS	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.061
Methylene chloride	5.6	ug/m3	3	2.8	2.4	0.94	2.1	2.1	1.8	2.2	1.8	2	1.6	2	1.1	1.5	3.8	1.9	1.7
N-HEPTANE	6.6	ug/m3	1.4	0.9	7	2.9	3	6.6	5.3	2	15	9.8	0.78 J	1.1	0.57 J	0.66 J	6.1	5.7	1.9
PROPYLENE (PROPENE)	NS	ug/m3	< 0.058	0.67 J	< 0.058	< 0.058	< 0.058	< 0.058</											

Table 3. Summary of Summa Canister Analytical Results, Operable Unit 1, Ramapo Paint Sludge Site.

Sample ID Sample Date	NYEPA National Ambient		BR (042513) 4/26/2013	BR (042613) 4/26/2013	BR (042913) 4/29/2013	BR (043013) 4/30/2013	BR (050113) 5/2/2013	BR (050213) 5/3/2013	BR (050313) 5/3/2013	BR (050613) 5/7/2013	BR (050713) 5/8/2013	BR (050813) 5/9/2013	BR (050913) 5/10/2013	BR (051013) 5/10/2013	BR (051313) 5/14/2013	BR (051413) 5/15/2013	BR (051513) 5/16/2013	BR (051613) 5/17/2013	BR (051713) 5/17/2013
VOCs continued																			
1,1,1-Trichloroethane	NS	ppbv	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.016
1,1,2,2-Tetrachloroethane	NS	ppbv	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.03
1,1,2-Trichloroethane	NS	ppbv	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.031
1,1-Dichloroethane	NS	ppbv	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.016
1,1-Dichloroethene	NS	ppbv	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.021
1,2,4-Trichlorobenzene	NS	ppbv	< 0.095	< 0.095 J	< 0.095 J	< 0.095	< 0.095	< 0.095	< 0.095	< 0.095	< 0.095	< 0.095	< 0.095	< 0.095	< 0.095 J	< 0.095 J	< 0.095 J	< 0.095 J	< 0.079 J
1,2,4-TRIMETHYLBENZENE	NS	ppbv	1.1	1.9	2	1.2	1.5	1.8	2.3	0.52	4.8	2.4	2.5	5.7	0.15 J	0.25	2.7	2.1	1.9
1,2-Dibromoethane	NS	ppbv	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.027
1,2-Dichlorobenzene	NS	ppbv	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.029
1,2-Dichloroethane	NS	ppbv	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.016
1,2-Dichloropropane	NS	ppbv	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.04
1,2-DICHLOROTETRAFLUOROETHANE;FLUOROCARBON 114	NS	ppbv	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.021
1,3,5-Trimethylbenzene	NS	ppbv	0.34	0.79	0.77	0.48	0.56	0.84	0.92	0.25	1.7	1	0.78	1.8	< 0.044	0.12 J	1.1	0.89	0.71
1,3-BUTADIENE	NS	ppbv	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.02
1,3-Dichlorobenzene	NS	ppbv	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.025
1,4-Dichlorobenzene	NS	ppbv	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.022
1,4-Dioxane	NS	ppbv	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.06
2,2,4-TRIMETHYLPENTANE	NS	ppbv	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	0.15 J	0.12 J	0.13 J	< 0.031	< 0.031	< 0.031	< 0.031	0.14 J	< 0.031	< 0.021
2-Butanone (MEK)	NS	ppbv	0.33	0.66	0.5	0.34	0.27	0.34	< 0.042	0.56	0.64	0.62	1.2	0.63	< 0.042	< 0.042	0.3	0.32	0.24
2-CHLOROTOLUENE	NS	ppbv	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.02
2-Hexanone	NS	ppbv	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	0.17 J	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.025
3-Chloropropene	NS	ppbv	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.028
4-ETHYLTOLUENE	NS	ppbv	0.24	0.51	0.61	0.33	0.35	0.58	0.61	0.23	1.6	0.95	0.47	1	< 0.028	< 0.028	< 0.028	0.6	0.52
4-Methyl-2-pentanone(MIBK)	NS	ppbv	< 0.084	0.29	< 0.084	< 0.084	0.21	< 0.084	< 0.084	< 0.084	0.53	0.51	0.24	0.55	< 0.084	< 0.084	0.23	< 0.084	0.18 J
Acetone	NS	ppbv	5.8	15.6	3.8	3.3	4.2	3.5	4.8	4.6	8.4	7.6	10.5	12.9	1.6	2.4	6	5.1	7.4
Benzene	NS	ppbv	0.13 J	0.15 J	0.23	0.11 J	0.12 J	0.15 J	0.12 J	0.19 J	0.2	0.19 J	0.13 J	0.11 J	0.1 J	< 0.029	0.21	0.13 J	0.098 J
BENZYL CHLORIDE	NS	ppbv	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.025
Bromodichloromethane	NS	ppbv	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.025
Bromoethene	NS	ppbv	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.014
Bromoform	NS	ppbv	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.022
Bromomethane	NS	ppbv	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.017
Carbon disulfide	NS	ppbv	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	0.31	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.017
Carbon tetrachloride	NS	ppbv	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.096 J	0.098 J	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.011
Chlorobenzene	NS	ppbv	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.025
Chloroethane	NS	ppbv	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.02
Chloroform	NS	ppbv	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.019
Chloromethane	NS	ppbv	0.59	0.65	0.59	0.54	0.63	0.58	0.57	0.67	0.72	0.68	0.69	0.75	0.59	0.63	0.59	0.67	0.59
cis-1,2-Dichloroethene	NS	ppbv	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.028
cis-1,3-Dichloropropene	NS	ppbv	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.019
Cyclohexane	NS	ppbv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.21	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.058
Dibromochloromethane	NS	ppbv	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.029
Dichlorodifluoromethane	NS	ppbv	0.54	0.58	0.58	0.56	0.57	0.56	0.53	0.63	0.63	0.6	0.59	0.57	0.58	0.59	0.57	0.54	0.54
ETHANOL	NS	ppbv	10.2	24.9	7.7	1.9	9.7	650 EJ	3470 EJ	4.3	26.3	278	23.1	38.4	1.2	4	18.3	12.8	25.9
ETHYL ACETATE	NS	ppbv	0.94 J	0.68 J	< 0.13 J	< 0.13	1	0.69	0.46	0.33 J	2.8 J	0.52 J	0.92 J	0.84 J	< 0.13 J	0.23 J	4.1 J	3.7 J	< 0.057 J
Ethylbenzene	NS	ppbv	0.58	0.4	3.6	2.3	2	4.4	4.5	1.2	7.1	4.8	0.57	0.94	0.24	0.35	3.4	3	1.3
Freon 113	NS	ppbv	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	0.1 J	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.021
Hexachlorobutadiene	NS	ppbv	< 0.03	< 0.03 J	< 0.03 J	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03 J	< 0.03	< 0.03	< 0.03</	

Table 3. Summary of Summa Canister Analytical Results, Operable Unit 1, Ramapo Paint Sludge Site.

Sample ID Sample Date	NYEPA National Ambient		BR (052013) 5/21/2013	BR (052113) 5/22/2013	BR (052213) 5/23/2013	BR (052313) 5/23/2013	BR(052413) 5/24/2013	BR(052813) 5/29/2013	BR(052913) 5/30/2013	BR (053013) 5/31/2013	BR (053113) 5/31/2013	BR (060313) 6/4/2013	BR (060413) 6/5/2013	BR (060513) 6/6/2013	BR (060613) 6/7/2013	BR (061013) 6/11/2013	BR (061113) 6/12/2013	BR (061213) 6/13/2013	BR (061313) 6/14/2013
VOCS																			
1,1,1-Trichloroethane	5	ug/m3	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087
1,1,2,2-Tetrachloroethane	0.7	ug/m3	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
1,1,2-Trichloroethane	6	ug/m3	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
1,1-Dichloroethane	0.16	ug/m3	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
1,1-Dichloroethene	18	ug/m3	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083
1,2,4-Trichlorobenzene	1.3	ug/m3	< 0.59 J	< 0.59 J	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59 J	< 0.59 J	< 0.59	< 0.59 J
1,2,4-TRIMETHYLBENZENE	6.7	ug/m3	4.5	20	16	17	6.9	3.5	13	27	2.6	< 0.084	3.8	7.4	24	4.8	4	0.69 J	6.4
1,2-Dibromoethane	2.5	ug/m3	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
1,2-Dichlorobenzene	7.8	ug/m3	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
1,2-Dichloroethane	1.6	ug/m3	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
1,2-Dichloropropane	0.74	ug/m3	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
1,2-DICHLOROTETRAFLUOROETHANE;FLUOROCARBON 114	0.31	ug/m3	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,3,5-Trimethylbenzene	4	ug/m3	2	8.8	7.4	6.9	2.5	1.4	4.5	8.4	1	< 0.074	1.7	3.2	13	2.7	2	< 0.074	2.6
1,3-BUTADIENE	NS	ug/m3	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044
1,3-Dichlorobenzene	5.3	ug/m3	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,4-Dichlorobenzene	6	ug/m3	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
1,4-Dioxane	NS	ug/m3	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
2,2,4-TRIMETHYLPENTANE	9.3	ug/m3	< 0.098	0.79 J	1.2	0.61 J	< 0.098	1.3	1.1	0.7 J	1.1	< 0.098	< 0.098	0.7 J	< 0.098	0.51 J	< 0.098	< 0.098	< 0.098
2-Butanone (MEK)	1.9	ug/m3	7.4	2.2	4.7	5	2.9	2.9	2.6	9.7	1.9	1.6	1.6	1.4	2.1	1.9	2.8	1.2	2.9
2-CHLOROTOLUENE	0.59	ug/m3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Hexanone	NS	ug/m3	4.5	< 0.1	< 0.1	0.65 J	< 0.1	< 0.1	< 0.1	2.2	< 0.1	< 0.1	0.45 J	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
3-Chloropropene	NS	ug/m3	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088
4-ETHYLTOLUENE	NS	ug/m3	1.5	6.9	5.4	4.6	5.4	0.93 J	2.5	8.4	0.79 J	< 0.074	1	2.3	8.8	2.1	1.5	< 0.074	2.6
4-Methyl-2-pentanone(MIBK)	NS	ug/m3	1.2	2.6	3.3	8.2	3.6	< 0.12	1.4	3.7	< 0.12	< 0.12	1.2	< 0.12	5.7	< 0.12	< 0.12	< 0.12	< 0.12
Acetone	16	ug/m3	25.9	20	33.3	58	50.6	23	24	46.8	16	10	14	11	17	17	20	8.1	15
Benzene	8.9	ug/m3	0.48 J	0.89	1.5	0.93	0.93	0.93	0.77	1.1	0.86	< 0.067	0.35 J	0.58 J	2	0.45 J	0.35 J	0.31 J	0.32 J
BENZYL CHLORIDE	0.07	ug/m3	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Bromodichloromethane	0.01	ug/m3	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Bromoethene	NS	ug/m3	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061
Bromoform	0	ug/m3	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Bromomethane	12	ug/m3	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066
Carbon disulfide	0.3	ug/m3	< 0.053	< 0.053	< 0.053	0.47 J	< 0.053	1.4	< 0.053	< 0.053	< 0.053	0.62	< 0.053	0.69	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
Carbon tetrachloride	1	ug/m3	< 0.069	< 0.069	< 0.069	< 0.069	0.63 J	0.6 J	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069
Chlorobenzene	1.5	ug/m3	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Chloroethane	220	ug/m3	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
Chloroform	3.1	ug/m3	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093
Chloromethane	1.5	ug/m3	1.3	1.4	1.9	1.6	1.7	1.5	1.7	1.4	1.3	1.3	1.2	1	1.2	1.3	1.4	1.1	1.1
cis-1,2-Dichloroethene	1.3	ug/m3	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
cis-1,3-Dichloropropene	110	ug/m3	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086
Cyclohexane	NS	ug/m3	< 0.2	< 0.2	2	1.3	2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	3.8	< 0.2	< 0.2	< 0.2	< 0.2
Dibromochloromethane	0.27	ug/m3	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Dichlorodifluoromethane	2.2	ug/m3	2.7	2.8	2.4	2.5	3.2	3.3	3.2	2.4	2.3	2.3	2.4	2.7	2.4	3	2.9	2.4	2.5
ETHANOL	NS	ug/m3	78.2 EJ	85.5 EJ	8.7	27.1	1370 EJ	9	23.9	220 EJ	3.8	4.5	12	6	8.9	34.9	46.4	8.1	32.4
ETHYL ACETATE	NS	ug/m3	5.8 J	6.5 J	8.6	4.7	4 J	31 J	25 J	8.6	2.4	2.2	4.3	4.7 J	< 0.21	3.6 J	2.9 J	2.9	1.3 J
Ethylbenzene	20	ug/m3	5.6	28	33	22	5.6	4.3	5.2	5.2	4	< 0.087	6.1	10	65.6	7.4	5.6	1.1	10
Freon 113	2.7	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Hexachlorobutadiene	0.38	ug/m3	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67 J	< 0.67 J	< 0.67	< 0.67 J
HEXANE	13	ug/m3	2.2	5.3	11	9.5	11	1.7	2.1	1.7	0.81	< 0.056	1.6	1.2	19	1.4	0.63 J	< 0.056	0.67 J
ISOPROPYL ALCOHOL (MANUFACTURING-STRONG ACID	NS	ug/m3	6.1	4.2	< 0.096	< 0.096	< 0.096	3.4	< 0.096	6.1	< 0.096	0.76	1.6	0.96	2.9	2.9	1.4	< 0.096	2.1
METHYL METHACRYLATE	NS	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Methyl Tert Butyl Ether	NS	ug/m3	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061
Methylene chloride	5.6	ug/m3	1.1	1.3	1.6	3	8.3	1.5	4.2	1.4	0.94	1.2	1.7	0.97	1.3	1.5	1.1	0.76	0.94
N-HEPTANE	6.6	ug/m3	3.6	13	21	13	8.6	3.1	2.4	0.82	1.8	< 0.082	3	3.4	41.8	3.2			

Table 3. Summary of Summa Canister Analytical Results, Operable Unit 1, Ramapo Paint Sludge Site.

Sample ID Sample Date	NYEPA National Ambient		BR (052013) 5/21/2013	BR (052113) 5/22/2013	BR (052213) 5/23/2013	BR (052313) 5/23/2013	BR(052413) 5/24/2013	BR(052813) 5/29/2013	BR(052913) 5/30/2013	BR (053013) 5/31/2013	BR (053113) 5/31/2013	BR (060313) 6/4/2013	BR (060413) 6/5/2013	BR (060513) 6/6/2013	BR (060613) 6/7/2013	BR (061013) 6/11/2013	BR (061113) 6/12/2013	BR (061213) 6/13/2013	BR (061313) 6/14/2013
VOCs continued																			
1,1,1-Trichloroethane	NS	ppbv	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
1,1,2,2-Tetrachloroethane	NS	ppbv	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
1,1,2-Trichloroethane	NS	ppbv	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031
1,1-Dichloroethane	NS	ppbv	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
1,1-Dichloroethene	NS	ppbv	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021
1,2,4-Trichlorobenzene	NS	ppbv	< 0.079 J	< 0.079 J	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079 J	< 0.079 J	< 0.079	< 0.079 J
1,2,4-TRIMETHYLBENZENE	NS	ppbv	0.91	4.1	3.2	3.5	1.4	0.71	2.6	5.5	0.53	< 0.017	0.78	1.5	4.9	0.97	0.81	0.14 J	1.3
1,2-Dibromoethane	NS	ppbv	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027
1,2-Dichlorobenzene	NS	ppbv	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029
1,2-Dichloroethane	NS	ppbv	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
1,2-Dichloropropane	NS	ppbv	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
1,2-DICHLOROTETRAFLUOROETHANE;FLUOROCARBON 114	NS	ppbv	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021
1,3,5-Trimethylbenzene	NS	ppbv	0.41	1.8	1.5	1.4	0.51	0.29	0.91	1.7	0.21	< 0.015	0.34	0.65	2.6	0.55	0.41	< 0.015	0.52
1,3-BUTADIENE	NS	ppbv	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
1,3-Dichlorobenzene	NS	ppbv	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
1,4-Dichlorobenzene	NS	ppbv	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022
1,4-Dioxane	NS	ppbv	< 0.06	< 0.06	< 0.06	< 0.06	0.53	< 0.06	< 0.06	< 0.06	< 0.06	2	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
2,2,4-TRIMETHYLPENTANE	NS	ppbv	< 0.021	0.17 J	0.26	0.13 J	< 0.021	0.27	0.23	0.15 J	0.24	< 0.021	< 0.021	0.15 J	< 0.021	0.11 J	< 0.021	< 0.021	< 0.021
2-Butanone (MEK)	NS	ppbv	2.5	0.76	1.6	1.7	1	1	0.89	3.3	0.63	0.54	0.55	0.47	0.72	0.63	0.94	0.42	1
2-CHLOROTOLUENE	NS	ppbv	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
2-Hexanone	NS	ppbv	1.1	< 0.025	< 0.025	0.16 J	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.11 J	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
3-Chloropropene	NS	ppbv	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028
4-ETHYLTOLUENE	NS	ppbv	0.3	1.4	1.1	0.94	1.1	0.19 J	0.5	1.7	0.16 J	< 0.015	0.21	0.46	1.8	0.42	0.31	< 0.015	0.53
4-Methyl-2-pentanone(MIBK)	NS	ppbv	0.3	0.64	0.8	2	0.89	< 0.029	0.33	0.91	< 0.029	< 0.029	0.29	< 0.029	1.4	< 0.029	< 0.029	< 0.029	< 0.029
Acetone	NS	ppbv	10.9	8.5	14	24.4	21.3	9.7	10.1	19.7	6.7	4.4	5.8	4.5	7.3	7.1	8.4	3.4	6.3
Benzene	NS	ppbv	0.15 J	0.28	0.47	0.29	0.29	0.29	0.24	0.35	0.27	< 0.021	0.11 J	0.18 J	0.64	0.14 J	0.11 J	0.096 J	0.1 J
BENZYL CHLORIDE	NS	ppbv	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Bromodichloromethane	NS	ppbv	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Bromoethene	NS	ppbv	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
Bromoform	NS	ppbv	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022
Bromomethane	NS	ppbv	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
Carbon disulfide	NS	ppbv	< 0.017	< 0.017	< 0.017	0.15 J	< 0.017	0.44	< 0.017	< 0.017	< 0.017	0.2	< 0.017	0.22	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
Carbon tetrachloride	NS	ppbv	< 0.011	< 0.011	< 0.011	< 0.011	0.1 J	0.096 J	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Chlorobenzene	NS	ppbv	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Chloroethane	NS	ppbv	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Chloroform	NS	ppbv	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019
Chloromethane	NS	ppbv	0.62	0.67	0.91	0.77	0.81	0.73	0.81	0.66	0.63	0.65	0.56	0.5	0.58	0.62	0.68	0.55	0.53
cis-1,2-Dichloroethene	NS	ppbv	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028
cis-1,3-Dichloropropene	NS	ppbv	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019
Cyclohexane	NS	ppbv	< 0.058	< 0.058	0.59	0.37	0.58	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	1.1	< 0.058	< 0.058	< 0.058	< 0.058
Dibromochloromethane	NS	ppbv	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029
Dichlorodifluoromethane	NS	ppbv	0.55	0.56	0.48	0.51	0.65	0.67	0.65	0.49	0.47	0.47	0.49	0.54	0.48	0.6	0.58	0.48	0.51
ETHANOL	NS	ppbv	41.5 EJ	45.4 EJ	4.6	14.4	728 EJ	4.8	12.7	117 EJ	2	2.4	6.2	3.2	4.7	18.5	24.6	4.3	17.2
ETHYL ACETATE	NS	ppbv	1.6 J	1.8 J	2.4	1.3	1.1 J	8.5 J	6.9 J	2.4	0.68	0.62	1.2	1.3 J	< 0.057	1 J	0.81 J	0.8	0.35 J
Ethylbenzene	NS	ppbv	1.3	6.4	7.6	5.1	1.3	1	1.2	1.2	0.91	< 0.02	1.4	15.1	1.7	1.3	0.25	2.4	2.4
Freon 113	NS	ppbv	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021
Hexachlorobutadiene	NS	ppbv	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063 J	< 0.063 J	< 0.063	< 0.063 J
HEXANE																			

Table 3. Summary of Summa Canister Analytical Results, Operable Unit 1, Ramapo Paint Sludge Site.

Sample ID Sample Date	NYEPA National Ambient		BR (061413) 6/14/2013	BR (061713) 6/18/2013	BR (061813) 6/19/2013	BR (061913) 6/20/2013	BR (062013) 6/21/2013	BR (062113) 6/21/2013	BR (062413) 6/25/2013	BR (062513) 6/26/2013	BR (062613) 6/27/2013	BR (062713) 6/28/2013	BR (062813) 6/28/2013	BR (070113) 7/2/2013	BR (070213) 7/3/2013	BR (070313) 7/3/2013	BR (070813) 7/9/2013	BR (070913) 7/10/2013	BR (071013) 7/10/2013
VOCS																			
1,1,1-Trichloroethane	5	ug/m3	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087
1,1,2,2-Tetrachloroethane	0.7	ug/m3	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
1,1,2-Trichloroethane	6	ug/m3	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
1,1-Dichloroethane	0.16	ug/m3	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
1,1-Dichloroethene	18	ug/m3	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083
1,2,4-Trichlorobenzene	1.3	ug/m3	< 0.59 J	< 0.59 J	< 0.59	< 0.59	< 0.59 J	< 0.59 J	< 0.59 J	< 0.59 J	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59
1,2,4-TRIMETHYLBENZENE	6.7	ug/m3	13	2.4	3.9	3.9	12	8.4	3.2	6.9	8.4	5.9	0.93 J	1.9	6.9	15	2.8	2.4	20
1,2-Dibromoethane	2.5	ug/m3	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
1,2-Dichlorobenzene	7.8	ug/m3	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
1,2-Dichloroethane	1.6	ug/m3	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
1,2-Dichloropropane	0.74	ug/m3	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
1,2-DICHLOROTETRAFLUOROETHANE;FLUOROCARBON 114	0.31	ug/m3	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,3,5-Trimethylbenzene	4	ug/m3	4.6	0.88 J	1.7	1.9	5.4	3.5	1.4	2.7	2.8	2.5	0.54 J	1.2	2.8	6.4	1.1	0.88 J	7.4
1,3-BUTADIENE	NS	ug/m3	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044
1,3-Dichlorobenzene	5.3	ug/m3	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,4-Dichlorobenzene	6	ug/m3	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
1,4-Dioxane	NS	ug/m3	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
2,2,4-TRIMETHYLPENTANE	9.3	ug/m3	< 0.098	< 0.098	< 0.098	< 0.098	< 0.098	< 0.098	< 0.098	< 0.098	< 0.098	< 0.098	< 0.098	0.51 J	< 0.098	0.42 J	< 0.098	< 0.098	< 0.098
2-Butanone (MEK)	1.9	ug/m3	1.4	0.91	1.3	254 D	1.4	1.6	2.3	2.2	3.8	2.5	1.3	1.3	1.5	5	3.5	4.7	3.5
2-CHLOROTOLUENE	0.59	ug/m3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Hexanone	NS	ug/m3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.7 J	< 0.1	0.45 J
3-Chloropropene	NS	ug/m3	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088
4-ETHYLTOLUENE	NS	ug/m3	3.3	0.69 J	1.3	1.6	4.3	2.7	0.88 J	1.7	2	1.9	< 0.074	1.1	2	4.5	0.69 J	0.64 J	4.6
4-Methyl-2-pentanone(MIBK)	NS	ug/m3	1.5	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	0.94	< 0.12	1.1	< 0.12	< 0.12	1.6	< 0.12	1.3	3.9	< 0.12	2.1
Acetone	16	ug/m3	26.4	8.8	8.8	88.6	14	17	20	21	25.9	18	12	17	15	36.8	33.3	27.6	46.6
Benzene	8.9	ug/m3	< 0.067	0.32 J	0.45 J	< 0.067	0.42 J	0.38 J	0.31 J	0.38 J	0.45 J	0.42 J	< 0.067	0.42 J	0.35 J	0.35 J	0.31 J	0.45 J	0.42 J
BENZYL CHLORIDE	0.07	ug/m3	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Bromodichloromethane	0.01	ug/m3	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Bromoethene	NS	ug/m3	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061
Bromoform	0	ug/m3	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Bromomethane	12	ug/m3	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066
Carbon disulfide	0.3	ug/m3	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	0.31 J	< 0.053	< 0.053	< 0.053	4.7	< 0.053
Carbon tetrachloride	1	ug/m3	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069
Chlorobenzene	1.5	ug/m3	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Chloroethane	220	ug/m3	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
Chloroform	3.1	ug/m3	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093
Chloromethane	1.5	ug/m3	1.2	1.1	0.91	1.1	1	1	1.1	< 0.07	1.3	1.3	1.3	1.2	1.4	1.8	2	1.6	1.9
cis-1,2-Dichloroethene	1.3	ug/m3	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	0.59 J	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
cis-1,3-Dichloropropene	110	ug/m3	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086
Cyclohexane	NS	ug/m3	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dibromochloromethane	0.27	ug/m3	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Dichlorodifluoromethane	2.2	ug/m3	2.5	2.7	2	2.1	2.5	2.4	2.7	2.4	2.7	2.9	2	1.9	2.6	2.7	2.8	2	2.4
ETHANOL	NS	ug/m3	119 EJ	5.1	1.5	3	13	22.6	15	27.1	335 EJ	7.5	1.7	13	3.8	11	9.4	2.8	15
ETHYL ACETATE	NS	ug/m3	1.1 J	1.7 J	3.3	3.1	1.1 J	0.97 J	2.3 J	2.7 J	1.6 J	< 0.21 J	0.9	3.4	1.4	< 0.21	3.1	< 0.21	< 0.21
Ethylbenzene	20	ug/m3	9.1	2.4	5.6	6.9	16	8.3	0.56 J	4	3.7	6.5	1.1	4.8	9.1	20	2	2.3	16
Freon 113	2.7	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	0.77 J	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Hexachlorobutadiene	0.38	ug/m3	< 0.67 J	< 0.67 J	< 0.67 J	< 0.67 J	< 0.67 J	< 0.67 J	< 0.67 J	< 0.67 J	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
HEXANE	13	ug/m3	1.2	0.63 J	0.56 J	< 0.056	0.95	0.74	1.3	3	1	1.3	0.32 J	1.7	0.88	1.6	0.56 J	< 0.056	1.7
ISOPROPYL ALCOHOL (MANUFACTURING-STRONG ACID	NS	ug/m3	3.9	< 0.096	< 0.096	< 0.096	< 0.096	0.86	2.5	2.9	5.2	1	< 0.096	1.9	0.88	1.3	3.4	< 0.096	< 0.096
METHYL METHACRYLATE	NS	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Methyl Tert Butyl Ether	NS	ug/m3	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061
Methylene chloride	5.6	ug/m3	1	2	1.2	0.87	1.1	0.97	3.5	3.1	0.97	2.9	1	1.7	1.4	1.4	1	1	3.8
N-HEPTANE	6.6	ug/m3	2.6	0.78 J	1.8	2.6	3.9	1.8	< 0.082	1.2	1.5	2.3	0.57 J						

Table 3. Summary of Summa Canister Analytical Results, Operable Unit 1, Ramapo Paint Sludge Site.

Sample ID Sample Date	NYEPA National Ambient		BR (071113) 7/11/2013	BR (071213) 7/12/2013	BR (071513) 7/15/2013	BR (071613) 7/16/2013	BR (071713) 7/17/2013	BR (071813) 7/18/2013	BR (071913) 7/19/2013	BR (072213) 7/22/2013	BR (072313) 7/23/2013	BR (072413) 7/24/2013	BR (072513) 7/25/2013	BR (072613) 7/26/2013	BR (072913) 7/29/2013	BR (073013) 7/30/2013	BR (073113) 7/31/2013	BR (080113) 8/1/2013	BR (080213) 8/2/2013
VOCS																			
1,1,1-Trichloroethane	5	ug/m3	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087
1,1,2,2-Tetrachloroethane	0.7	ug/m3	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
1,1,2-Trichloroethane	6	ug/m3	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
1,1-Dichloroethane	0.16	ug/m3	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
1,1-Dichloroethene	18	ug/m3	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083
1,2,4-Trichlorobenzene	1.3	ug/m3	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59 J	< 0.59 J	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59 J	< 0.59 J	< 0.59
1,2,4-TRIMETHYLBENZENE	6.7	ug/m3	< 0.084	11	3	5.4	4	2.1	5.9	17	12	1.2	2.2	< 0.084	< 0.084	< 0.084	< 0.084	1.3	< 0.084
1,2-Dibromoethane	2.5	ug/m3	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
1,2-Dichlorobenzene	7.8	ug/m3	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	5	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
1,2-Dichloroethane	1.6	ug/m3	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
1,2-Dichloropropane	0.74	ug/m3	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
1,2-DICHLOROTETRAFLUOROETHANE;FLUOROCARBON 114	0.31	ug/m3	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,3,5-Trimethylbenzene	4	ug/m3	< 0.074	3.9	0.93 J	1.7	1.4	0.64 J	2.1	6.9	3.1	< 0.074	0.64 J	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074
1,3-BUTADIENE	NS	ug/m3	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044
1,3-Dichlorobenzene	5.3	ug/m3	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,4-Dichlorobenzene	6	ug/m3	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
1,4-Dioxane	NS	ug/m3	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	0.72	< 0.22	< 0.22	< 0.22
2,2,4-TRIMETHYLPENTANE	9.3	ug/m3	< 0.098	< 0.098	< 0.098	< 0.098	< 0.098	< 0.098	< 0.098	< 0.098	< 0.098	< 0.098	< 0.098	< 0.098	< 0.098	< 0.098	< 0.098	0.61 J	< 0.098
2-Butanone (MEK)	1.9	ug/m3	4.7	2.1	4.4	1.5	2.1	2.2	2.8	2.1	23	1.2	1.9	0.74	5.9	1.4	0.8	4.7	0.97
2-CHLOROTOLUENE	0.59	ug/m3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Hexanone	NS	ug/m3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1 J	< 0.1 J	< 0.1	< 0.1	4.5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.9	< 0.1
3-Chloropropene	NS	ug/m3	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088
4-ETHYLTOLUENE	NS	ug/m3	< 0.074	3	0.79 J	1.2	0.79 J	< 0.074	2	5.4	1.8	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074
4-Methyl-2-pentanone(MIBK)	NS	ug/m3	< 0.12	1.1	0.49 J	0.82	0.82	0.53 J	< 0.12	1.6	4.9	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	1.2	< 0.12
Acetone	16	ug/m3	30.6	29.7	18	19	26.8	24.7	24	28	61.5	9	12	5.9	< 0.081	11	9.3	53.4	9.3
Benzene	8.9	ug/m3	0.35 J	0.31 J	0.35 J	< 0.067	< 0.067	< 0.067	0.45 J	0.48 J	< 0.067	< 0.067	0.35 J	< 0.067	< 0.067	< 0.067	< 0.067	0.58 J	< 0.067
BENZYL CHLORIDE	0.07	ug/m3	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Bromodichloromethane	0.01	ug/m3	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Bromoethene	NS	ug/m3	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061
Bromoform	0	ug/m3	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Bromomethane	12	ug/m3	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066
Carbon disulfide	0.3	ug/m3	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	1.1	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	1.7	< 0.053
Carbon tetrachloride	1	ug/m3	0.5 J	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069
Chlorobenzene	1.5	ug/m3	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Chloroethane	220	ug/m3	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	1.3	< 0.053	< 0.053	< 0.053	< 0.053
Chloroform	3.1	ug/m3	< 0.093	< 0.093	< 0.093	0.14 J	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093
Chloromethane	1.1	ug/m3	1.2	0.87	0.85	0.97	1.5	2	0.95	0.91	1	0.91	0.83	0.89	0.95	0.91	1.2	1.6	0.95
cis-1,2-Dichloroethene	1.3	ug/m3	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
cis-1,3-Dichloropropene	110	ug/m3	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086
Cyclohexane	NS	ug/m3	< 0.2	1.8	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dibromochloromethane	0.27	ug/m3	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Dichlorodifluoromethane	2.2	ug/m3	2.6	2.4	2.3	2.4	2.6	2.6	2.2	2.3	2.4	2.4	2.5	2.5	2.4	2.5	2.9	2.9	2.5
ETHANOL	NS	ug/m3	5.1	13	7.2	7.3	3.8	4	307 EJ	633 EJ	381 EJ	2.4	6.6	2.8	44.5	4.7	2.8	3	2.6
ETHYL ACETATE	NS	ug/m3	< 0.21	< 0.21	7.6	4	6.1	8.6	1.5	0.86	7.2	10	33	4.7	2.8	2.5	5	12	6.8
Ethylbenzene	20	ug/m3	0.91	6.9	0.78 J	1.2	1.6	< 0.087	4.8	16	2.2	0.61 J	1.3	< 0.087	< 0.087	< 0.087	< 0.087	0.56 J	< 0.087
Freon 113	2.7	ug/m3	0.66 J	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Hexachlorobutadiene	0.38	ug/m3	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67 J	< 0.67 J	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67 J	< 0.67 J	< 0.67
HEXANE	13	ug/m3	0.74	0.7	0.53 J	0.53 J	0.49 J	0.39 J	0.85	1.3	< 0.056	0.46 J	0.67 J	< 0.056	< 0.056	< 0.056	< 0.056	0.67 J	< 0.056
ISOPROPYL ALCOHOL (MANUFACTURING-STRONG ACID	NS	ug/m3	1.3	3.2	1.3	4.9	< 0.096	< 0.096	2.7	5.4	< 0.096	< 0.096	0.81	< 0.096	0.64	< 0.096	< 0.096	< 0.096	< 0.096
METHYL METHACRYLATE	NS	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Methyl Tert Butyl Ether	NS	ug/m3	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061
Methylene chloride	5.6	ug/m3	2.3	1.4	0.8	1.1	1.4	1.5	0.83	1.3	3.3								

Table 3. Summary of Summa Canister Analytical Results, Operable Unit 1, Ramapo Paint Sludge Site.

Sample ID Sample Date	NYEPA National Ambient		BRC (011713) 1/18/2013	REC (021313) 2/14/2013	REC (021913) 2/20/2013	REC(022013) 2/21/2013	REC (022113) 2/22/2013	REC (022213) 2/22/2013	REC (022513) 2/25/2013	REC (022613) 2/27/2013	REC (022713) 2/28/2013	REC (022813) 3/1/2013	REC (030113) 3/1/2013	REC (030413) 3/5/2013	REC (030513) 3/6/2013	REC (030613) 3/7/2013	REC (030713) 3/8/2013	REC (030813) 3/8/2013	REC (031113) 3/12/2013
VOCS																			
1,1,1-Trichloroethane	5	ug/m3	< 0.13	< 0.13	< 0.13	< 0.13	R	< 0.13	< 0.13	R	R	< 0.13	< 0.13	< 0.13	< 0.13	R	R	0.76 J	R
1,1,2,2-Tetrachloroethane	0.7	ug/m3	< 0.23	< 0.23	< 0.23	< 0.23	R	< 0.23	< 0.23	R	R	< 0.23	< 0.23	< 0.23	< 0.23	R	R	< 0.23	R
1,1,2-Trichloroethane	6	ug/m3	< 0.19	< 0.19	< 0.19	< 0.19	R	< 0.19	< 0.19	R	R	< 0.19	< 0.19	< 0.19	< 0.19	R	R	< 0.19	R
1,1-Dichloroethane	0.16	ug/m3	< 0.077	< 0.077	< 0.077	< 0.077	R	< 0.077	< 0.077	R	R	< 0.077	< 0.077	< 0.077	< 0.077	R	R	< 0.077	R
1,1-Dichloroethene	18	ug/m3	< 0.091	< 0.091	< 0.091	< 0.091	R	< 0.091	< 0.091	R	R	< 0.091	< 0.091	< 0.091	< 0.091	R	R	< 0.091	R
1,2,4-Trichlorobenzene	1.3	ug/m3	< 0.71 J	< 0.71	< 0.71	< 0.71	R	< 0.71	< 0.71	R	R	< 0.71	< 0.71	< 0.71	< 0.71	R	R	< 0.71	R
1,2,4-TRIMETHYLBENZENE	6.7	ug/m3	< 0.14	< 0.14	< 0.14	< 0.14	R	0.84 J	< 0.14	R	R	< 0.14	< 0.14	< 0.14	< 0.14	R	R	< 0.14	R
1,2-Dibromoethane	2.5	ug/m3	< 0.22	< 0.22	< 0.22	< 0.22	R	< 0.22	< 0.22	R	R	< 0.22	< 0.22	< 0.22	< 0.22	R	R	< 0.22	R
1,2-Dichlorobenzene	7.8	ug/m3	< 0.23	< 0.23	< 0.23	< 0.23	R	< 0.23	< 0.23	R	R	< 0.23	< 0.23	< 0.23	< 0.23	R	R	< 0.23	R
1,2-Dichloroethane	1.6	ug/m3	< 0.11	< 0.11	< 0.11	< 0.11	R	< 0.11	< 0.11	R	R	< 0.11	< 0.11	< 0.11	< 0.11	R	R	< 0.11	R
1,2-Dichloropropane	0.74	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	R	< 0.16	< 0.16	R	R	< 0.16	< 0.16	< 0.16	< 0.16	R	R	< 0.16	R
1,2-DICHLOROTETRAFLUOROETHANE;FLUOROCARBON 114	0.31	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	R	< 0.16	< 0.16	R	R	< 0.16	< 0.16	< 0.16	< 0.16	R	R	< 0.16	R
1,3,5-Trimethylbenzene	4	ug/m3	< 0.22	< 0.22	< 0.22	< 0.22	R	< 0.22	< 0.22	R	R	< 0.22	< 0.22	< 0.22	< 0.22	R	R	< 0.22	R
1,3-BUTADIENE	NS	ug/m3	< 0.058	< 0.058	< 0.058	< 0.058	R	< 0.058	< 0.058	R	R	< 0.058	< 0.058	< 0.058	< 0.058	R	R	< 0.058	R
1,3-Dichlorobenzene	5.3	ug/m3	< 0.17	< 0.17	< 0.17	< 0.17	R	< 0.17	< 0.17	R	R	< 0.17	< 0.17	< 0.17	< 0.17	R	R	< 0.17	R
1,4-Dichlorobenzene	6	ug/m3	< 0.36	< 0.36	< 0.36	< 0.36	R	< 0.36	< 0.36	R	R	< 0.36	< 0.36	< 0.36	< 0.36	R	R	< 0.36	R
1,4-Dioxane	NS	ug/m3	< 0.43	< 0.43	< 0.43	< 0.43	R	< 0.43	< 0.43	R	R	< 0.43	< 0.43	< 0.43	< 0.43	R	R	< 0.43	R
2,2,4-TRIMETHYLPENTANE	9.3	ug/m3	< 0.14	< 0.14	< 0.14	< 0.14	R	< 0.14	< 0.14	R	R	< 0.14	< 0.14	< 0.14	< 0.14	R	R	< 0.14	R
2-Butanone (MEK)	1.9	ug/m3	0.5 J	1.2	0.86	< 0.12	0.62 J	2.2	< 0.12	0.5 J	0.83 J	0.5 J	0.35 J	1.3	0.44 J	R	R	< 0.12	0.65 J
2-CHLOROTOLUENE	0.59	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	R	< 0.16	< 0.16	R	R	< 0.16	< 0.16	< 0.16	< 0.16	R	R	< 0.16	R
2-Hexanone	NS	ug/m3	< 0.21	< 0.21	< 0.21	< 0.21	R	< 0.21	< 0.21	R	R	< 0.21	< 0.21	< 0.21	< 0.21	R	R	< 0.21	R
3-Chloropropene	NS	ug/m3	< 0.11	< 0.11	< 0.11	< 0.11	R	< 0.11	< 0.11	R	R	< 0.11	< 0.11	< 0.11	< 0.11	R	R	< 0.11	R
4-ETHYLTOLUENE	NS	ug/m3	< 0.14	< 0.14	< 0.14	< 0.14	R	< 0.14	< 0.14	R	R	< 0.14	< 0.14	< 0.14	< 0.14	R	R	< 0.14	R
4-Methyl-2-pentanone(MIBK)	NS	ug/m3	< 0.34	< 0.34	< 0.34	< 0.34	R	< 0.34	< 0.34	R	R	< 0.34	< 0.34	< 0.34	< 0.34	R	R	< 0.34	R
Acetone	16	ug/m3	4.5	16	9.3	2	5.5 J	14	3.6	3.3 J	6.7 J	4.3	4.3	11	3.3	2.9 J	3.6 J	2.9	4.5 J
Benzene	8.9	ug/m3	0.61 J	0.7	1.2	0.54 J	0.48 J	0.67	0.7	0.64 J	0.73 J	0.83	0.67	0.48 J	0.51 J	0.38 J	0.51 J	0.61 J	0.73 J
BENZYL CHLORIDE	0.07	ug/m3	< 0.25	< 0.25	< 0.25	< 0.25	R	< 0.25	< 0.25	R	R	< 0.25	< 0.25	< 0.25	< 0.25	R	R	< 0.25	R
Bromodichloromethane	0.01	ug/m3	< 0.21	< 0.21	< 0.21	< 0.21	R	< 0.21	< 0.21	R	R	< 0.21	< 0.21	< 0.21	< 0.21	R	R	< 0.21	R
Bromoethene	NS	ug/m3	< 0.12	< 0.12	< 0.12	< 0.12	R	< 0.12	< 0.12	R	R	< 0.12	< 0.12	< 0.12	< 0.12	R	R	< 0.12	R
Bromoform	0	ug/m3	< 0.3	< 0.3	< 0.3	< 0.3	R	< 0.3	< 0.3	R	R	< 0.3	< 0.3	< 0.3	< 0.3	R	R	< 0.3	R
Bromomethane	12	ug/m3	< 0.093	< 0.093	< 0.093	< 0.093	R	< 0.093	< 0.093	R	R	< 0.093	< 0.093	< 0.093	< 0.093	R	R	< 0.093	R
Carbon disulfide	0.3	ug/m3	< 0.075	< 0.075	< 0.075	< 0.075	R	< 0.075	< 0.075	R	R	< 0.075	< 0.075	< 0.075	< 0.075	R	R	< 0.075	R
Carbon tetrachloride	1	ug/m3	< 0.13	< 0.13	< 0.13	< 0.13	R	< 0.13	< 0.13	R	0.62 J	< 0.13	< 0.13	< 0.13	< 0.13	R	R	< 0.13	R
Chlorobenzene	1.5	ug/m3	< 0.18	< 0.18	< 0.18	< 0.18	R	< 0.18	< 0.18	R	R	< 0.18	< 0.18	< 0.18	< 0.18	R	R	< 0.18	R
Chloroethane	220	ug/m3	< 0.092	< 0.092	< 0.092	< 0.092	R	< 0.092	< 0.092	R	R	< 0.092	< 0.092	< 0.092	< 0.092	R	R	< 0.092	R
Chloroform	3.1	ug/m3	< 0.13	< 0.13	< 0.13	< 0.13	R	< 0.13	< 0.13	R	R	< 0.13	< 0.13	< 0.13	< 0.13	R	R	< 0.13	R
Chloromethane	1.5	ug/m3	1.2	1.4	2.1	1.2	1.4 J	1.5	1.4	1.7 J	1.7 J	1.7	1.7	1.2	1.2	1.3 J	1 J	1	1.1 J
cis-1,2-Dichloroethene	1.3	ug/m3	< 0.099	< 0.099	< 0.099	< 0.099	R	< 0.099	< 0.099	R	R	< 0.099	< 0.099	< 0.099	< 0.099	R	R	0.83	R
cis-1,3-Dichloropropene	110	ug/m3	< 0.15	< 0.15	< 0.15	< 0.15	R	< 0.15	< 0.15	R	R	< 0.15	< 0.15	< 0.15	< 0.15	R	R	< 0.15	R
Cyclohexane	NS	ug/m3	< 0.17	< 0.17	0.76	< 0.17	R	< 0.17	< 0.17	R	R	< 0.17	< 0.17	< 0.17	< 0.17	R	R	< 0.17	R
Dibromochloromethane	0.27	ug/m3	< 0.3	< 0.3	< 0.3	< 0.3	R	< 0.3	< 0.3	R	R	< 0.3	< 0.3	< 0.3	< 0.3	R	R	< 0.3	R
Dichlorodifluoromethane	2.2	ug/m3	2.8	2.3	2.4	2.4	2.4 J	2.8	2.7	2.9 J	3.1 J	3	2.9	2.6	2.8	2.7 J	1.7 J	1.9	1.8 J
ETHANOL	NS	ug/m3	5.5	4.1	2.8	1.4	1.4 J	17	2.3	1.8 J	4.9 J	3.4	5.1	4.7	3	1.3 J	1.5 J	1.8	4.9 J
ETHYL ACETATE	NS	ug/m3	0.79	3.4	2	0.79	R	2.2	< 0.47	3 J	1.3 J	2.9	1.9	2.7	1.6 J	0.9 J	2	1.4 J	
Ethylbenzene	20	ug/m3	< 0.13	< 0.13	< 0.13	< 0.13	R	1.8	< 0.13	R	R	< 0.13	< 0.13	< 0.13	< 0.13	R	R	< 0.13	R
Freon 113	2.7	ug/m3	< 0.21	< 0.21	< 0.21	< 0.21	R	< 0.21	< 0.21	R	R	< 0.21	< 0.21	< 0.21	< 0.21	R	R	< 0.21	R
Hexachlorobutadiene	0.38	ug/m3	< 0.32	< 0.32	< 0.32	< 0.32	R	< 0.32	< 0.32	R	R	< 0.32	< 0.32	< 0.32	< 0.32	R	R	< 0.32	R
HEXANE	13	ug/m3	< 0.18	< 0.18	< 0.18	3.9	R	< 0.18	< 0.18	R	R	< 0.18	< 0.18	< 0.18	< 0.18	R	R	< 0.18	0.42 J
ISOPROPYL ALCOHOL (MANUFACTURING-STRONG ACID	NS	ug/m3	< 0.16	0.54	0.66	0.34 J	0.34 J	1.1	< 0.16	R	3.4 J	< 0.16	< 0.16	< 0.16	< 0.16	R	R	< 0.16	0.88 J
METHYL METHACRYLATE	NS	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	R	< 0.16	< 0.16	R	R	< 0.16	< 0.16	< 0.16	< 0.16	R	R	< 0.16	R
Methyl Tert Butyl Ether	NS	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	R	< 0.16	< 0.16	R	R	< 0.16	< 0.16	< 0.16	< 0.16	R	R	< 0.16	R
Methylene chloride	5.6	ug/m3	0.8	1	1	0.76	0.73 J	1.1	0.87	0.83 J	0.9 J	1.1	1.1	1.3	0.76	0.76 J	0.97 J	1.3	1.1 J
N-HEPTANE	6.6	ug/m3	< 0.11	< 0.11	< 0.11	< 0.11	R	< 0.11	< 0.11	R	R	< 0.11	< 0.11	< 0.11	< 0.11	R	R	< 0.11	0.45 J
PROPYLENE (PROPENE)	NS	ug/m3	< 0.058	< 0.058	< 0.058	3.4	R	< 0.058	< 0.058	R	R	< 0.058	1.2	< 0.058	< 0.058	R	R	< 0.058	1.3 J
Styrene	1.5	ug/m3	< 0.11	< 0.11	< 0.11	< 0.11	R	< 0.11	< 0.11	R	R	< 0.11	< 0.11	< 0.11	< 0.11	R	R	< 0.11	R
TERT-BUTYL ALCOHOL	NS	ug/m3	< 0.15	< 0.15	< 0.15	< 0.15	R	< 0.15 J	< 0.15 J	R	R	< 0.15	< 0.15	< 0.15	< 0.15	R	R	< 0.15	R
Tetrachloroethene	5.8	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	R	< 0.16	< 0.16	R	R	1.8	< 0.16	< 0.16	< 0.16	R	R	< 0.16	0.28 J
TETRAHYDROFURAN	NS	ug/m3	< 0.22	0.59	< 0.22	< 0.22	R	< 0.22	< 0.22	R	R	< 0.22	< 0.22	0.44 J	< 0.22	R	R	< 0.22	R
Toluene	32	ug/m3	< 0.12	0.64 J	1.2	< 0.12	R	0.87	0.45 J	0.45 J	0.57 J	0.64 J	0.45 J	0.41 J	0.41 J	R	R	0.45 J	1.5 J
trans-1,2-Dichloroethene	3	ug/m3	< 0.11	< 0.11	< 0.11	< 0.11	R	< 0.11	< 0.11	R	R	< 0.11	< 0.11	< 0.11	< 0.11	R	R	< 0.11	R
trans-1,3-Dichloropropene	NS	ug/m3	< 0.11	< 0.11	< 0.11	< 0.11	R	< 0.11	< 0.11	R	R	< 0.11	< 0.11	< 0.11	< 0.11	R	R	< 0.11	R
Trichlor																			

Table 3. Summary of Summa Canister Analytical Results, Operable Unit 1, Ramapo Paint Sludge Site.

Sample ID Sample Date	NYEPA National Ambient		BRC (011713) 1/18/2013	REC (021313) 2/14/2013	REC (021913) 2/20/2013	REC(022013) 2/21/2013	REC (022113) 2/22/2013	REC (022213) 2/22/2013	REC (022513) 2/25/2013	REC (022613) 2/27/2013	REC (022713) 2/28/2013	REC (022813) 3/1/2013	REC (030113) 3/1/2013	REC (030413) 3/5/2013	REC (030513) 3/6/2013	REC (030613) 3/7/2013	REC (030713) 3/8/2013	REC (030813) 3/8/2013	REC (031113) 3/12/2013
VOCs continued																			
1,1,1-Trichloroethane	NS	ppbv	< 0.024	< 0.024	< 0.024	< 0.024	R	< 0.024	< 0.024	R	R	< 0.024	< 0.024	< 0.024	< 0.024	R	R	0.14 J	R
1,1,2,2-Tetrachloroethane	NS	ppbv	< 0.034	< 0.034	< 0.034	< 0.034	R	< 0.034	< 0.034	R	R	< 0.034	< 0.034	< 0.034	< 0.034	R	R	< 0.034	R
1,1,2-Trichloroethane	NS	ppbv	< 0.035	< 0.035	< 0.035	< 0.035	R	< 0.035	< 0.035	R	R	< 0.035	< 0.035	< 0.035	< 0.035	R	R	< 0.035	R
1,1-Dichloroethane	NS	ppbv	< 0.019	< 0.019	< 0.019	< 0.019	R	< 0.019	< 0.019	R	R	< 0.019	< 0.019	< 0.019	< 0.019	R	R	< 0.019	R
1,1-Dichloroethene	NS	ppbv	< 0.023	< 0.023	< 0.023	< 0.023	R	< 0.023	< 0.023	R	R	< 0.023	< 0.023	< 0.023	< 0.023	R	R	< 0.023	R
1,2,4-Trichlorobenzene	NS	ppbv	< 0.095 J	< 0.095	< 0.095	< 0.095	R	< 0.095	< 0.095	R	R	< 0.095	< 0.095	< 0.095	< 0.095	R	R	< 0.095	R
1,2,4-TRIMETHYLBENZENE	NS	ppbv	< 0.029	< 0.029	< 0.029	< 0.029	R	0.17 J	< 0.029	R	R	< 0.029	< 0.029	< 0.029	< 0.029	R	R	< 0.029	R
1,2-Dibromoethane	NS	ppbv	< 0.029	< 0.029	< 0.029	< 0.029	R	< 0.029	< 0.029	R	R	< 0.029	< 0.029	< 0.029	< 0.029	R	R	< 0.029	R
1,2-Dichlorobenzene	NS	ppbv	< 0.039	< 0.039	< 0.039	< 0.039	R	< 0.039	< 0.039	R	R	< 0.039	< 0.039	< 0.039	< 0.039	R	R	< 0.039	R
1,2-Dichloroethane	NS	ppbv	< 0.027	< 0.027	< 0.027	< 0.027	R	< 0.027	< 0.027	R	R	< 0.027	< 0.027	< 0.027	< 0.027	R	R	< 0.027	R
1,2-Dichloropropane	NS	ppbv	< 0.034	< 0.034	< 0.034	< 0.034	R	< 0.034	< 0.034	R	R	< 0.034	< 0.034	< 0.034	< 0.034	R	R	< 0.034	R
1,2-DICHLOROTETRAFLUOROETHANE;FLUOROCARBON 114	NS	ppbv	< 0.023	< 0.023	< 0.023	< 0.023	R	< 0.023	< 0.023	R	R	< 0.023	< 0.023	< 0.023	< 0.023	R	R	< 0.023	R
1,3,5-Trimethylbenzene	NS	ppbv	< 0.044	< 0.044	< 0.044	< 0.044	R	< 0.044	< 0.044	R	R	< 0.044	< 0.044	< 0.044	< 0.044	R	R	< 0.044	R
1,3-BUTADIENE	NS	ppbv	< 0.026	< 0.026	< 0.026	< 0.026	R	< 0.026	< 0.026	R	R	< 0.026	< 0.026	< 0.026	< 0.026	R	R	< 0.026	R
1,3-Dichlorobenzene	NS	ppbv	< 0.028	< 0.028	< 0.028	< 0.028	R	< 0.028	< 0.028	R	R	< 0.028	< 0.028	< 0.028	< 0.028	R	R	< 0.028	R
1,4-Dichlorobenzene	NS	ppbv	< 0.06	< 0.06	< 0.06	< 0.06	R	< 0.06	< 0.06	R	R	< 0.06	< 0.06	< 0.06	< 0.06	R	R	< 0.06	R
1,4-Dioxane	NS	ppbv	< 0.12	< 0.12	< 0.12	< 0.12	R	< 0.12	< 0.12	R	R	< 0.12	< 0.12	< 0.12	< 0.12	R	R	< 0.12	R
2,2,4-TRIMETHYLPENTANE	NS	ppbv	< 0.031	< 0.031	< 0.031	< 0.031	R	< 0.031	< 0.031	R	R	< 0.031	< 0.031	< 0.031	< 0.031	R	R	< 0.031	R
2-Butanone (MEK)	NS	ppbv	0.17 J	0.42	0.29	< 0.042	0.21 J	0.73	< 0.042	0.17 J	0.28 J	0.17 J	0.12 J	0.43	0.15 J	R	R	< 0.042	0.22 J
2-CHLOROTOLUENE	NS	ppbv	< 0.031	< 0.031	< 0.031	< 0.031	R	< 0.031	< 0.031	R	R	< 0.031	< 0.031	< 0.031	< 0.031	R	R	< 0.031	R
2-Hexanone	NS	ppbv	< 0.051	< 0.051	< 0.051	< 0.051	R	< 0.051	< 0.051	R	R	< 0.051	< 0.051	< 0.051	< 0.051	R	R	< 0.051	R
3-Chloropropene	NS	ppbv	< 0.035	< 0.035	< 0.035	< 0.035	R	< 0.035	< 0.035	R	R	< 0.035	< 0.035	< 0.035	< 0.035	R	R	< 0.035	R
4-ETHYLTOLUENE	NS	ppbv	< 0.028	< 0.028	< 0.028	< 0.028	R	< 0.028	< 0.028	R	R	< 0.028	< 0.028	< 0.028	< 0.028	R	R	< 0.028	R
4-Methyl-2-pentanone(MIBK)	NS	ppbv	< 0.084	< 0.084	< 0.084	< 0.084	R	< 0.084	< 0.084	R	R	< 0.084	< 0.084	< 0.084	< 0.084	R	R	< 0.084	R
Acetone	NS	ppbv	1.9	6.6	3.9	0.85	2.3 J	5.9	1.5	1.4 J	2.8 J	1.8	1.8	4.7	1.4	1.2 J	1.5 J	1.2	1.9 J
Benzene	NS	ppbv	0.19 J	0.22	0.36	0.17 J	0.15 J	0.21	0.22	0.2 J	0.23 J	0.26	0.21	0.15 J	0.16 J	0.12 J	0.16 J	0.19 J	0.23 J
BENZYL CHLORIDE	NS	ppbv	< 0.048	< 0.048	< 0.048	< 0.048	R	< 0.048	< 0.048	R	R	< 0.048	< 0.048	< 0.048	< 0.048	R	R	< 0.048	R
Bromodichloromethane	NS	ppbv	< 0.031	< 0.031	< 0.031	< 0.031	R	< 0.031	< 0.031	R	R	< 0.031	< 0.031	< 0.031	< 0.031	R	R	< 0.031	R
Bromoethene	NS	ppbv	< 0.027	< 0.027	< 0.027	< 0.027	R	< 0.027	< 0.027	R	R	< 0.027	< 0.027	< 0.027	< 0.027	R	R	< 0.027	R
Bromoform	NS	ppbv	< 0.029	< 0.029	< 0.029	< 0.029	R	< 0.029	< 0.029	R	R	< 0.029	< 0.029	< 0.029	< 0.029	R	R	< 0.029	R
Bromomethane	NS	ppbv	< 0.024	< 0.024	< 0.024	< 0.024	R	< 0.024	< 0.024	R	R	< 0.024	< 0.024	< 0.024	< 0.024	R	R	< 0.024	R
Carbon disulfide	NS	ppbv	< 0.024	< 0.024	< 0.024	< 0.024	R	< 0.024	< 0.024	R	R	< 0.024	< 0.024	< 0.024	< 0.024	R	R	< 0.024	R
Carbon tetrachloride	NS	ppbv	< 0.02	< 0.02	< 0.02	< 0.02	R	< 0.02	< 0.02	R	0.099 J	< 0.02	< 0.02	< 0.02	< 0.02	R	R	< 0.02	R
Chlorobenzene	NS	ppbv	< 0.04	< 0.04	< 0.04	< 0.04	R	< 0.04	< 0.04	R	R	< 0.04	< 0.04	< 0.04	< 0.04	R	R	< 0.04	R
Chloroethane	NS	ppbv	< 0.035	< 0.035	< 0.035	< 0.035	R	< 0.035	< 0.035	R	R	< 0.035	< 0.035	< 0.035	< 0.035	R	R	< 0.035	R
Chloroform	NS	ppbv	< 0.026	< 0.026	< 0.026	< 0.026	R	< 0.026	< 0.026	R	R	< 0.026	< 0.026	< 0.026	< 0.026	R	R	< 0.026	R
Chloromethane	NS	ppbv	0.58	0.66	1	0.6	0.68 J	0.71	0.68	0.83 J	0.83 J	0.8	0.83	0.57	0.59	0.63 J	0.49 J	0.49	0.53 J
cis-1,2-Dichloroethene	NS	ppbv	< 0.025	< 0.025	< 0.025	< 0.025	R	< 0.025	< 0.025	R	R	< 0.025	< 0.025	< 0.025	< 0.025	R	R	0.21	R
cis-1,3-Dichloropropene	NS	ppbv	< 0.033	< 0.033	< 0.033	< 0.033	R	< 0.033	< 0.033	R	R	< 0.033	< 0.033	< 0.033	< 0.033	R	R	< 0.033	R
Cyclohexane	NS	ppbv	< 0.05	< 0.05	0.22	< 0.05	R	< 0.05	< 0.05	R	R	< 0.05	< 0.05	< 0.05	< 0.05	R	R	< 0.05	R
Dibromochloromethane	NS	ppbv	< 0.035	< 0.035	< 0.035	< 0.035	R	< 0.035	< 0.035	R	R	< 0.035	< 0.035	< 0.035	< 0.035	R	R	< 0.035	R
Dichlorodifluoromethane	NS	ppbv	0.57	0.46	0.49	0.49	0.49 J	0.56	0.55	0.59 J	0.62 J	0.6	0.58	0.53	0.56	0.55 J	0.35 J	0.39	0.37 J
ETHANOL	NS	ppbv	2.9	2.2	1.5	0.75	0.76 J	8.9	1.2	0.93 J	2.6 J	1.8	2.7	2.5	1.6	0.67 J	0.78 J	0.98	2.6 J
ETHYL ACETATE	NS	ppbv	0.22	0.94	0.56	0.22	R	0.62	< 0.13	0.84 J	0.36 J	0.8	0.54	0.74	< 0.13	0.44 J	0.25 J	0.56	0.39 J
Ethylbenzene	NS	ppbv	< 0.029	< 0.029	< 0.029	< 0.029	R	0.42	< 0.029	R	R	< 0.029	< 0.029	< 0.029	< 0.029	R	R	< 0.029	R
Freon 113	NS	ppbv	< 0.028	< 0.028	< 0.028	< 0.028	R	< 0.028	< 0.028	R	R	< 0.028	< 0.028	< 0.028	< 0.028	R	R	< 0.028	R
Hexachlorobutadiene	NS	ppbv	< 0.03	< 0.03	< 0.03	< 0.03	R	< 0.03	< 0.03	R	R	< 0.03	< 0.03	< 0.03	< 0.03	R	R	< 0.03	R
HEXANE	NS	ppbv	< 0.05	< 0.05	< 0.05	1.1	R	< 0.05	< 0.05	R	R	< 0.05	< 0.05	< 0.05	< 0.05	R	R	< 0.05	0.12 J
ISOPROPYL ALCOHOL (MANUFACTURING-STRONG ACID	NS	ppbv	< 0.065	0.22	0.27	0.14 J	0.14 J	0.45	< 0.065	R	1.4 J	< 0.065	< 0.065	< 0.065	< 0.065	R	R	< 0.065	0.36 J
METHYL METHACRYLATE	NS	ppbv	< 0.038	< 0.038	< 0.038	< 0.038	R	< 0.038	< 0.038	R	R	< 0.038	< 0.038	< 0.038	< 0.038	R	R	< 0.038	R
Methyl Tert Butyl Ether	NS	ppbv	< 0.045	< 0.045	< 0.045	< 0.045	R	< 0.045	< 0.045	R	R	< 0.045	< 0.045	< 0.045	< 0.045	R	R	< 0.045	R
Methylene chloride	NS	ppbv	0.23	0.3	0.3	0.22	0.21 J	0.32	0.25	0.24 J	0.26 J	0.31	0.32	0.36	0.22	0.22 J	0.28 J	0.36	0.32 J
N-HEPTANE	NS	ppbv	< 0.028	< 0.028	< 0.028	< 0.028	R	< 0.028	< 0.028	R	R	< 0.028	< 0.028	< 0.028	< 0.028	R	R	< 0.028	0.11 J
PROPYLENE (PROPENE)	NS	ppbv	< 0.034	< 0.034	< 0.034	2	R	< 0.034	< 0.034	R	R	< 0.034	0.7	< 0.034	< 0.034	R	R	< 0.034	0.77 J
Styrene	NS	ppbv	< 0.025	< 0.025	< 0.025	< 0.025	R	< 0.025	< 0.025	R	R	< 0.025	< 0.025	< 0.025	< 0.025	R	R	< 0.025	R
TERT-BUTYL ALCOHOL	NS	ppbv	< 0.049	< 0.049	< 0.049	< 0.049	R	< 0.049 J	< 0.049 J	R	R	< 0.049	< 0.049	< 0.049	< 0.049	R	R	< 0.049	R
Tetrachloroethene	NS	ppbv	< 0.024	< 0.024	< 0.024	< 0.024	R	< 0.024	< 0.024	R	R	0.26	< 0.024	< 0.024	< 0.024	R	R	< 0.024	0.041 J
TETRAHYDROFURAN	NS	ppbv	< 0.074	0.2	< 0.074	< 0.074	R	< 0.074	< 0.074	R	R	< 0.074	< 0.074	0.15 J	< 0.074	R	R	< 0.074	R
Toluene	NS	ppbv	< 0.032	0.17 J	0.31	< 0.032	R	0.23	0.12 J	0.12 J	0.15 J	0.17 J							

Table 3. Summary of Summa Canister Analytical Results, Operable Unit 1, Ramapo Paint Sludge Site.

Sample ID Sample Date	NYEPA National Ambient		REC (031213) 3/13/2013	REC (031313) 3/14/2013	REC (031413) 3/15/2013	REC (031513) 3/16/2013	REC (031613) 3/16/2013	REC (031813) 3/19/2013	REC (031913) 3/20/2013	REC (032013) 3/21/2013	REC (032113) 3/22/2013	REC (032213) 3/22/2013	REC (032513) 3/26/2013	REC (032613) 3/27/2013	REC (032713) 3/28/2013	REC (032813) 3/29/2013	REC (032913) 3/29/2013	REC (040113) 4/2/2013	REC (040213) 4/3/2013
VOCs continued																			
1,1,1-Trichloroethane	NS	ppbv	R	R	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	R	< 0.024	< 0.024	< 0.024	R	< 0.024
1,1,2,2-Tetrachloroethane	NS	ppbv	R	R	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	R	< 0.034	< 0.034	< 0.034	R	< 0.034
1,1,2-Trichloroethane	NS	ppbv	R	R	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	R	< 0.035	< 0.035	< 0.035	R	< 0.035
1,1-Dichloroethane	NS	ppbv	R	R	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	R	< 0.019	< 0.019	< 0.019	R	< 0.019
1,1-Dichloroethene	NS	ppbv	R	R	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	R	< 0.023	< 0.023	< 0.023	R	< 0.023
1,2,4-Trichlorobenzene	NS	ppbv	R	R	< 0.095	< 0.095	< 0.095 J	< 0.095	< 0.095	< 0.095	< 0.095	< 0.095	< 0.095	R	< 0.095	< 0.095	< 0.095	R	< 0.095
1,2,4-TRIMETHYLBENZENE	NS	ppbv	R	R	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	R	< 0.029	< 0.029	0.15 J	R	< 0.029
1,2-Dibromoethane	NS	ppbv	R	R	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	R	< 0.029	< 0.029	< 0.029	R	< 0.029
1,2-Dichlorobenzene	NS	ppbv	R	R	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	R	< 0.039	< 0.039	< 0.039	R	< 0.039
1,2-Dichloroethane	NS	ppbv	R	R	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	R	< 0.027	< 0.027	< 0.027	R	< 0.027
1,2-Dichloropropane	NS	ppbv	R	R	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	R	< 0.034	< 0.034	< 0.034	R	< 0.034
1,2-DICHLOROTETRAFLUOROETHANE;FLUOROCARBON 114	NS	ppbv	R	R	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	R	< 0.023	< 0.023	< 0.023	R	< 0.023
1,3,5-Trimethylbenzene	NS	ppbv	R	R	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	R	< 0.044	< 0.044	< 0.044	R	< 0.044
1,3-BUTADIENE	NS	ppbv	R	R	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	R	< 0.026	< 0.026	< 0.026	R	< 0.026
1,3-Dichlorobenzene	NS	ppbv	R	R	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	R	< 0.028	< 0.028	< 0.028	R	< 0.028
1,4-Dichlorobenzene	NS	ppbv	R	R	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	R	< 0.06	< 0.06	< 0.06	R	< 0.06
1,4-Dioxane	NS	ppbv	R	0.33 J	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	R	< 0.12	< 0.12	< 0.12	R	< 0.12
2,2,4-TRIMETHYLPENTANE	NS	ppbv	R	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	R	< 0.031	< 0.031	< 0.031	R	< 0.031
2-Butanone (MEK)	NS	ppbv	0.15 J	0.38 J	0.21	< 0.042	0.15 J	< 0.042	< 0.042	< 0.042	0.19 J	< 0.042	< 0.042	0.24 J	0.15 J	< 0.042	0.94	0.36 J	< 0.042
2-CHLOROTOLUENE	NS	ppbv	R	R	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	R	< 0.031	< 0.031	< 0.031	R	< 0.031
2-Hexanone	NS	ppbv	R	R	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	R	< 0.051	< 0.051	0.15 J	R	< 0.051
3-Chloropropene	NS	ppbv	R	R	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	R	< 0.035	< 0.035	< 0.035	R	< 0.035
4-ETHYLTOLUENE	NS	ppbv	R	R	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	R	< 0.028	< 0.028	< 0.028	R	< 0.028
4-Methyl-2-pentanone(MIBK)	NS	ppbv	R	R	< 0.084	< 0.084	< 0.084	< 0.084	< 0.084	< 0.084	< 0.084	< 0.084	< 0.084	R	< 0.084	< 0.084	< 0.084	R	< 0.084
Acetone	NS	ppbv	1.4 J	2.9 J	2.5	1.4 J	2.5	1.6	1.3	1.7	1.7	1.9	1.4	2 J	1.7	1.7	10.6	4.3 J	1.1
Benzene	NS	ppbv	0.16 J	0.22 J	0.15 J	0.12 J	0.11 J	0.12 J	0.12 J	0.1 J	0.12 J	0.12 J	0.12 J	0.14 J	0.12 J	0.12 J	0.11 J	0.12 J	0.16 J
BENZYL CHLORIDE	NS	ppbv	R	R	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	R	< 0.048	< 0.048	< 0.048	R	< 0.048
Bromodichloromethane	NS	ppbv	R	R	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	R	< 0.031	< 0.031	< 0.031	R	< 0.031
Bromoethene	NS	ppbv	R	R	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	R	< 0.027	< 0.027	< 0.027	R	< 0.027
Bromoform	NS	ppbv	R	R	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	R	< 0.029	< 0.029	< 0.029	R	< 0.029
Bromomethane	NS	ppbv	R	R	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	R	< 0.024	< 0.024	< 0.024	R	< 0.024
Carbon disulfide	NS	ppbv	R	R	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	R	< 0.024	< 0.024	< 0.024	R	< 0.024
Carbon tetrachloride	NS	ppbv	R	R	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	R	0.097 J	< 0.02	< 0.02	R	< 0.02
Chlorobenzene	NS	ppbv	R	R	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	R	< 0.04	< 0.04	< 0.04	R	< 0.04
Chloroethane	NS	ppbv	R	R	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	R	< 0.035	< 0.035	< 0.035	R	< 0.035
Chloroform	NS	ppbv	R	R	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	R	< 0.026	< 0.026	< 0.026	R	< 0.026
Chloromethane	NS	ppbv	R	0.48 J	0.69	0.45 J	0.47	0.48	0.49	0.48	0.49	0.46	0.41	0.41 J	0.52	0.5	0.52	0.46 J	0.42
cis-1,2-Dichloroethene	NS	ppbv	R	R	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	R	< 0.025	< 0.025	< 0.025	R	< 0.025
cis-1,3-Dichloropropene	NS	ppbv	R	R	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	R	< 0.033	< 0.033	< 0.033	R	< 0.033
Cyclohexane	NS	ppbv	R	R	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	R	< 0.05	< 0.05	< 0.05	R	< 0.05
Dibromochloromethane	NS	ppbv	R	R	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	R	< 0.035	< 0.035	< 0.035	R	< 0.035
Dichlorodifluoromethane	NS	ppbv	0.34 J	0.39 J	0.59	0.44 J	0.46	0.46	0.46	0.47	0.49	0.5	0.47	0.47 J	0.54	0.54	0.52	0.49 J	0.48
ETHANOL	NS	ppbv	1.3 J	1.5 J	0.91	0.76 J	1.7	0.6	0.68	0.51	0.67	0.74	1.2	1.1 J	0.86	< 0.17	28.2	3.1 J	0.78
ETHYL ACETATE	NS	ppbv	0.38 J	0.31 J	0.31	< 0.13	0.63	< 0.13	< 0.13	0.37	0.39	0.24	1.1	1.6 J	1.4	0.43	0.57	9.1 J	14.2
Ethylbenzene	NS	ppbv	R	R	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	R	< 0.029	< 0.029	< 0.029	R	< 0.029
Freon 113	NS	ppbv	R	R	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	R	< 0.028	< 0.028	< 0.028	R	< 0.028
Hexachlorobutadiene	NS	ppbv	R	R	< 0.03	< 0.03	< 0.03 J	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	R	< 0.03	< 0.03	< 0.03	R	< 0.03
HEXANE	NS	ppbv	R	R	0.11 J	< 0.05	0.12 J	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	R	< 0.05	< 0.05	0.17 J	R	0.11 J
ISOPROPYL ALCOHOL (MANUFACTURING-STRONG ACID	NS	ppbv	0.3 J	R	0.1 J	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	R	0.51	< 0.065	< 0.065	2.9 J	< 0.065
METHYL METHACRYLATE	NS	ppbv	R	R	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	R	< 0.038	< 0.038	< 0.038	R	< 0.038
Methyl Tert Butyl Ether	NS	ppbv	R	R	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	R	< 0.045	< 0.045	< 0.045	R	< 0.045
Methylene chloride	NS	ppbv	0.29 J	0.31 J	0.45	0.19 J	0.74	0.22	0.21	0.27	0.3	0.34	0.32	0.23 J	< 0.055	0.24	0.23	0.56 J	0.55
N-HEPTANE	NS	ppbv	R	R	< 0.														

Table 3. Summary of Summa Canister Analytical Results, Operable Unit 1, Ramapo Paint Sludge Site.

Sample ID Sample Date	NYEPA National Ambient		REC (040313) 4/4/2013	REC (040413) 4/5/2013	REC (040513) 4/5/2013	REC (040813) 4/9/2013	REC (040913) 4/10/2013	REC (041013) 4/11/2013	REC (041113) 4/12/2013	REC (041513) 4/16/2013	REC (041613) 4/17/2013	REC (041713) 4/18/2013	REC (041813) 4/19/2013	REC (041913) 4/19/2013	REC (042213) 4/23/2013	REC (042313) 4/24/2013	REC (042413) 4/25/2013	REC (042513) 4/26/2013	REC (042613) 4/26/2013
VOCs																			
1,1,1-Trichloroethane	5	ug/m3	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	R	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
1,1,2,2-Tetrachloroethane	0.7	ug/m3	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	R	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
1,1,2-Trichloroethane	6	ug/m3	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	R	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
1,1-Dichloroethane	0.16	ug/m3	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	R	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
1,1-Dichloroethene	18	ug/m3	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	R	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091
1,2,4-Trichlorobenzene	1.3	ug/m3	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	R	< 0.71	< 0.71	< 0.71	< 0.71 J	< 0.71 J	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71 J
1,2,4-TRIMETHYLBENZENE	6.7	ug/m3	< 0.14	< 0.14	0.79 J	0.49 J	< 0.14	R	< 0.14	< 0.14	7.4	2.6	< 0.14	31	4	< 0.14	8.4	2.3	20
1,2-Dibromoethane	2.5	ug/m3	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	R	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
1,2-Dichlorobenzene	7.8	ug/m3	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	R	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
1,2-Dichloroethane	1.6	ug/m3	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	R	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
1,2-Dichloropropane	0.74	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	R	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
1,2-DICHLOROTETRAFLUOROETHANE;FLUOROCARBON 114	0.31	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	R	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
1,3,5-Trimethylbenzene	4	ug/m3	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	R	< 0.22	< 0.22	2.4	0.98	< 0.22	11	1.4	< 0.22	3.2	0.79 J	6.4
1,3-BUTADIENE	NS	ug/m3	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	R	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058
1,3-Dichlorobenzene	5.3	ug/m3	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	R	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
1,4-Dichlorobenzene	6	ug/m3	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	R	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
1,4-Dioxane	NS	ug/m3	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	R	< 0.43	< 0.43	1.4	< 0.43	< 0.43	0.76	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43
2,2,4-TRIMETHYLPENTANE	9.3	ug/m3	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	R	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
2-Butanone (MEK)	1.9	ug/m3	0.59	1.3	0.8	1.3	2	1.6 J	0.77	0.88	1.1	0.91	0.59	5	1.1	0.8	1.2	< 0.12	1.4
2-CHLOROTOLUENE	0.59	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	R	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
2-Hexanone	NS	ug/m3	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	R	< 0.21	< 0.21	0.9	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
3-Chloropropene	NS	ug/m3	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	R	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
4-ETHYLTOLUENE	NS	ug/m3	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	R	< 0.14	< 0.14	1.5	0.69 J	< 0.14	6.4	0.93 J	< 0.14	2.1	0.54 J	4.1
4-Methyl-2-pentanone(MIBK)	NS	ug/m3	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	R	< 0.34	< 0.34	1.1	< 0.34	< 0.34	3.8	< 0.34	< 0.34	1.1	< 0.34	1.7
Acetone	16	ug/m3	3.3	10	12	10	12	12 J	13	8.3	22	6.9	5.5	36.6	9.3	4.5	21	9	33.5
Benzene	8.9	ug/m3	0.35 J	0.42 J	0.48 J	0.54 J	0.58 J	0.54 J	0.38 J	4.8	4.2	0.89	0.45 J	0.73	0.45 J	0.45 J	0.54 J	0.35 J	0.38 J
BENZYL CHLORIDE	0.07	ug/m3	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	R	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Bromodichloromethane	0.01	ug/m3	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	R	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Bromoethene	NS	ug/m3	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	R	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Bromoform	0	ug/m3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	R	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bromomethane	12	ug/m3	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	R	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093
Carbon disulfide	0.3	ug/m3	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	R	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075
Carbon tetrachloride	1	ug/m3	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	R	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Chlorobenzene	1.5	ug/m3	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	R	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Chloroethane	220	ug/m3	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	R	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092
Chloroform	3.1	ug/m3	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	R	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Chloromethane	1.5	ug/m3	0.97	0.97	1.3	1.3	1.1	1.3 J	1.2	1.3	1.2	1.1	1.2	1.4	1.2	1.2	1.3	1.2	1.3
cis-1,2-Dichloroethene	1.3	ug/m3	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	R	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099
cis-1,3-Dichloropropene	110	ug/m3	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	R	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Cyclohexane	NS	ug/m3	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	R	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Dibromochloromethane	0.27	ug/m3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	R	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Dichlorodifluoromethane	2.2	ug/m3	2.7	2.5	3.1	2.8	2.5	2.9 J	3	2.9	2.8	2.8	3.1	2.7	2.8	2.9	2.9	2.7	2.8
ETHANOL	NS	ug/m3	3.4	9	17	7.3	11	4.5 J	3.2	292 EJ	33.7	5.3	5.5	1450 EDJ	320 EJ	5.7	39.6	9.2	55.8
ETHYL ACETATE	NS	ug/m3	15	< 0.47	< 0.47	14	59.4	3.3 J	3.2 J	1.8 J	5.4 J	2.2 J	3.6 J	2.1	2.5 J	7.2 J	5.4 J	3.5 J	2.4 J
Ethylbenzene	20	ug/m3	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	R	< 0.13	1.3	9.6	4.3	0.48 J	16	2.5	< 0.13	1.5	0.48 J	2.3
Freon 113	2.7	ug/m3	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	R	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Hexachlorobutadiene	0.38	ug/m3	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	R	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32 J
HEXANE	13	ug/m3	< 0.18	< 0.18	0.7	0.99	0.56 J	0.46 J	< 0.18	3.9	5.3	1.6	0.35 J	4.9	0.74	< 0.18	1.9	0.63 J	2.5
ISOPROPYL ALCOHOL (MANUFACTURING-STRONG ACID	NS	ug/m3	< 0.16	0.49	< 0.16	0.91	0.59	0.59 J	< 0.16	< 0.16	1.7	< 0.16	2.7	< 0.16	< 0.16	< 0.16	2.4	< 0.16	< 0.16
METHYL METHACRYLATE	NS	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	R	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Methyl Tert Butyl Ether	NS	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	R	< 0.16	5	4	0.61 J	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Methylene chloride	5.6	ug/m3	< 0.19	0.87	1.9	6.3	2.2	1.1 J	2.2	1.2	2.1	0.8	1.1	2.1	3.5	2.6	3	3.4	2.6
N-HEPTANE	6.6	ug/m3	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	R	< 0.11	< 0.11	0.74 J	1.4	< 0.11	8.6	1.2	< 0.11	0.98	< 0.11	1.3
PROPYLENE (PROPENE)	NS	ug/m3	< 0.058	< 0.058	< 0.058	< 0.058													

Table 3. Summary of Summa Canister Analytical Results, Operable Unit 1, Ramapo Paint Sludge Site.

Sample ID Sample Date	NYEPA National Ambient		REC (040313) 4/4/2013	REC (040413) 4/5/2013	REC (040513) 4/5/2013	REC (040813) 4/9/2013	REC (040913) 4/10/2013	REC (041013) 4/11/2013	REC (041113) 4/12/2013	REC (041513) 4/16/2013	REC (041613) 4/17/2013	REC (041713) 4/18/2013	REC (041813) 4/19/2013	REC (041913) 4/19/2013	REC (042213) 4/23/2013	REC (042313) 4/24/2013	REC (042413) 4/25/2013	REC (042513) 4/26/2013	REC (042613) 4/26/2013
VOCs continued																			
1,1,1-Trichloroethane	NS	ppbv	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	R	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024
1,1,2,2-Tetrachloroethane	NS	ppbv	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	R	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034
1,1,2-Trichloroethane	NS	ppbv	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	R	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035
1,1-Dichloroethane	NS	ppbv	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	R	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019
1,1-Dichloroethene	NS	ppbv	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	R	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023
1,2,4-Trichlorobenzene	NS	ppbv	< 0.095	< 0.095	< 0.095	< 0.095	< 0.095	R	< 0.095	< 0.095	< 0.095	< 0.095	< 0.095 J	< 0.095	< 0.095	< 0.095	< 0.095	< 0.095	< 0.095 J
1,2,4-TRIMETHYLBENZENE	NS	ppbv	< 0.029	< 0.029	0.16 J	0.1 J	< 0.029	R	< 0.029	< 0.029	1.5	0.53	< 0.029	6.3	0.81	< 0.029	1.7	0.46	4
1,2-Dibromoethane	NS	ppbv	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	R	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029
1,2-Dichlorobenzene	NS	ppbv	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	R	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039
1,2-Dichloroethane	NS	ppbv	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	R	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027
1,2-Dichloropropane	NS	ppbv	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	R	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034
1,2-DICHLOROTETRAFLUOROETHANE;FLUOROCARBON 114	NS	ppbv	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	R	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023
1,3,5-Trimethylbenzene	NS	ppbv	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	R	< 0.044	< 0.044	0.49	0.2	< 0.044	2.2	0.28	< 0.044	0.65	0.16 J	1.3
1,3-BUTADIENE	NS	ppbv	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	R	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026
1,3-Dichlorobenzene	NS	ppbv	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	R	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028
1,4-Dichlorobenzene	NS	ppbv	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	R	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
1,4-Dioxane	NS	ppbv	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	R	< 0.12	< 0.12	0.38	< 0.12	< 0.12	0.21	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
2,2,4-TRIMETHYLPENTANE	NS	ppbv	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	R	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031
2-Butanone (MEK)	NS	ppbv	0.2	0.45	0.27	0.44	0.69	0.53 J	0.26	0.3	0.36	0.31	0.2	1.7	0.37	0.27	0.39	< 0.042	0.46
2-CHLOROTOLUENE	NS	ppbv	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	R	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031
2-Hexanone	NS	ppbv	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	R	< 0.051	< 0.051	0.22	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051
3-Chloropropene	NS	ppbv	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	R	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035
4-ETHYLTOLUENE	NS	ppbv	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	R	< 0.028	< 0.028	0.3	0.14 J	< 0.028	1.3	0.19 J	< 0.028	0.43	0.11 J	0.83
4-Methyl-2-pentanone(MIBK)	NS	ppbv	< 0.084	< 0.084	< 0.084	< 0.084	< 0.084	R	< 0.084	< 0.084	0.27	< 0.084	< 0.084	0.93	< 0.084	< 0.084	0.28	< 0.084	0.42
Acetone	NS	ppbv	1.4	4.3	5	4.3	5	5.1 J	5.3	3.5	9.4	2.9	2.3	15.4	3.9	1.9	8.7	3.8	14.1
Benzene	NS	ppbv	0.11 J	0.13 J	0.15 J	0.17 J	0.18 J	0.17 J	0.12 J	1.5	1.3	0.28	0.14 J	0.23	0.14 J	0.14 J	0.17 J	0.11 J	0.12 J
BENZYL CHLORIDE	NS	ppbv	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	R	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048
Bromodichloromethane	NS	ppbv	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	R	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031
Bromoethene	NS	ppbv	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	R	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027
Bromoform	NS	ppbv	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	R	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029
Bromomethane	NS	ppbv	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	R	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024
Carbon disulfide	NS	ppbv	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	R	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024
Carbon tetrachloride	NS	ppbv	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	R	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Chlorobenzene	NS	ppbv	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	R	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Chloroethane	NS	ppbv	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	R	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035
Chloroform	NS	ppbv	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	R	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026
Chloromethane	NS	ppbv	0.47	0.47	0.64	0.65	0.55	0.61 J	0.59	0.61	0.6	0.55	0.57	0.7	0.57	0.56	0.63	0.57	0.64
cis-1,2-Dichloroethene	NS	ppbv	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	R	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
cis-1,3-Dichloropropene	NS	ppbv	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	R	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
Cyclohexane	NS	ppbv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	R	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibromochloromethane	NS	ppbv	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	R	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035
Dichlorodifluoromethane	NS	ppbv	0.54	0.5	0.63	0.57	0.5	0.59 J	0.6	0.59	0.56	0.57	0.62	0.54	0.56	0.58	0.59	0.55	0.57
ETHANOL	NS	ppbv	1.8	4.8	8.9	3.9	5.6	2.4 J	1.7	155 EJ	17.9	2.8	2.9	770 EDJ	170 EJ	3	21	4.9	29.6
ETHYL ACETATE	NS	ppbv	4.3	< 0.13	< 0.13	3.9	16.5	0.93 J	0.89 J	0.51 J	1.5 J	0.62 J	1 J	0.57 J	0.7 J	2 J	1.5 J	0.97 J	0.66 J
Ethylbenzene	NS	ppbv	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	R	< 0.029	0.29	2.2	1	0.11 J	3.7 J	0.57	< 0.029	0.35	0.11 J	0.53
Freon 113	NS	ppbv	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	R	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028
Hexachlorobutadiene	NS	ppbv	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	R	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03 J
HEXANE	NS	ppbv	< 0.05	< 0.05	0.2	0.28	0.16 J	0.13 J	< 0.05	1.1	1.5	0.46	0.098 J	1.4	0.21	< 0.05	0.53	0.18 J	0.72
ISOPROPYL ALCOHOL (MANUFACTURING-STRONG ACID	NS	ppbv	< 0.065																

Table 3. Summary of Summa Canister Analytical Results, Operable Unit 1, Ramapo Paint Sludge Site.

Sample ID Sample Date	NYEPA National Ambient		REC (042913) 4/29/2013	REC (043013) 4/30/2013	REC (050113) 5/2/2013	REC (050213) 5/3/2013	REC (050313) 5/3/2013	REC (050613) 5/7/2013	REC (050713) 5/8/2013	REC (050813) 5/9/2013	REC (050913) 5/10/2013	REC (051013) 5/10/2013	REC(051313) 5/14/2013	REC (051413) 5/15/2013	REC (051513) 5/16/2013	REC (051613) 5/17/2013	REC (051713) 5/17/2013	REC (052013) 5/21/2013	REC (052113) 5/22/2013
VOCs																			
1,1,1-Trichloroethane	5	ug/m3	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.087	< 0.13	< 0.087	< 0.087	< 0.087
1,1,2,2-Tetrachloroethane	0.7	ug/m3	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.21	< 0.23	< 0.21	< 0.21	< 0.21
1,1,2-Trichloroethane	6	ug/m3	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.17	< 0.19	< 0.17	< 0.17	< 0.17
1,1-Dichloroethane	0.16	ug/m3	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.065	< 0.077	< 0.065	< 0.065	< 0.065
1,1-Dichloroethene	18	ug/m3	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.083	< 0.091	< 0.083	< 0.083	< 0.083
1,2,4-Trichlorobenzene	1.3	ug/m3	< 0.71 J	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71 J	< 0.71 J	< 0.59 J	< 0.71 J	< 0.59 J	< 0.59 J	< 0.59 J
1,2,4-TRIMETHYLBENZENE	6.7	ug/m3	2.1	< 0.14	2.7	2.1	2.6	< 0.14	5.9	5.9	< 0.14	27	< 0.14	2.4	2.1	4.4	7.4	3.2	5.4
1,2-Dibromoethane	2.5	ug/m3	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.21	< 0.22	< 0.21	< 0.21	< 0.21
1,2-Dichlorobenzene	7.8	ug/m3	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.17	< 0.23	< 0.17	< 0.17	< 0.17
1,2-Dichloroethane	1.6	ug/m3	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.065	< 0.11	< 0.065	< 0.065	< 0.065
1,2-Dichloropropane	0.74	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.18	< 0.16	< 0.18	< 0.18	< 0.18
1,2-DICHLOROTETRAFLUOROETHANE;FLUOROCARBON 114	0.31	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.15	< 0.16	< 0.15	< 0.15	< 0.15
1,3,5-Trimethylbenzene	4	ug/m3	0.79 J	< 0.22	0.93 J	0.88 J	1.2	< 0.22	2.1	1.9	< 0.22	8.4	< 0.22	1.3	0.88 J	1.8	3.2	1.4	2.1
1,3-BUTADIENE	NS	ug/m3	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.044	< 0.058	< 0.044	< 0.044	< 0.044
1,3-Dichlorobenzene	5.3	ug/m3	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.15	< 0.17	< 0.15	< 0.15	< 0.15
1,4-Dichlorobenzene	6	ug/m3	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.13	< 0.36	< 0.13	< 0.13	< 0.13
1,4-Dioxane	NS	ug/m3	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.22	< 0.43	< 0.22	< 0.22	< 0.22
2,2,4-TRIMETHYLPENTANE	9.3	ug/m3	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	0.61 J	0.44 J	< 0.14	< 0.14	< 0.14	< 0.14	0.65 J	< 0.14	< 0.098	< 0.098	0.7 J
2-Butanone (MEK)	1.9	ug/m3	1.1	0.88	0.77	1.4	< 0.12	0.94	1.5	5	1.6	1.8	< 0.12	1.7	0.97	0.62	< 0.17	1.3	1.7
2-CHLOROTOLUENE	0.59	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.1	< 0.16	< 0.1	< 0.1	< 0.1
2-Hexanone	NS	ug/m3	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.1	< 0.21	< 0.1	< 0.1	< 0.1
3-Chloropropene	NS	ug/m3	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.088	< 0.11	< 0.088	< 0.088	< 0.088
4-ETHYLTOLUENE	NS	ug/m3	0.59 J	< 0.14	0.59 J	< 0.14	0.79 J	< 0.14	1.7	1.5	< 0.14	4.9	< 0.14	0.64 J	0.54 J	1.2	2.5	0.84 J	1.7
4-Methyl-2-pentanone(MIBK)	NS	ug/m3	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	1.4	1.4	< 0.34	2	< 0.34	< 0.34	< 0.12	< 0.34	0.9	0.82	0.98
Acetone	16	ug/m3	8.3	6.7	9.3	8.8	5.9	16	20	27.6	14	28	4	13	10	13	19	11	14
Benzene	8.9	ug/m3	2.3	< 0.093	0.38 J	0.32 J	4.8	0.54 J	0.42 J	0.45 J	0.35 J	0.35 J	< 0.093	< 0.093	0.54 J	< 0.093	0.35 J	0.38 J	0.58 J
BENZYL CHLORIDE	0.07	ug/m3	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.13	< 0.25	< 0.13	< 0.13	< 0.13
Bromodichloromethane	0.01	ug/m3	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.17	< 0.21	< 0.17	< 0.17	< 0.17
Bromoethene	NS	ug/m3	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.061	< 0.12	< 0.061	< 0.061	< 0.061
Bromoform	0	ug/m3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.23	< 0.3	< 0.23	< 0.23	< 0.23
Bromomethane	12	ug/m3	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.066	< 0.093	< 0.066	< 0.066	< 0.066
Carbon disulfide	0.3	ug/m3	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.053	< 0.075	< 0.053	< 0.053	< 0.053
Carbon tetrachloride	1	ug/m3	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.069	< 0.13	< 0.069	< 0.069	< 0.069
Chlorobenzene	1.5	ug/m3	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.12	< 0.18	< 0.12	< 0.12	< 0.12
Chloroethane	220	ug/m3	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	< 0.053	< 0.092	< 0.053	< 0.053	< 0.053
Chloroform	3.1	ug/m3	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.093	< 0.13	< 0.093	< 0.093	< 0.093
Chloromethane	1.5	ug/m3	1.2	1	1.1	1.3	1.3	1.4	1.5	1.4	1.4	1.5	1.3	1.7	1.3	1.3	1.2	1.7	1.3
cis-1,2-Dichloroethene	1.3	ug/m3	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.11	< 0.099	< 0.11	< 0.11	< 0.11
cis-1,3-Dichloropropene	110	ug/m3	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.086	< 0.15	< 0.086	< 0.086	< 0.086
Cyclohexane	NS	ug/m3	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.2	< 0.17	< 0.2	< 0.2	< 0.2
Dibromochloromethane	0.27	ug/m3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.25	< 0.3	< 0.25	< 0.25	< 0.25
Dichlorodifluoromethane	2.2	ug/m3	2.8	2.8	2.9	2.9	3.1	3.3	3.1	3	2.9	2.9	2.9	3	2.9	3	2.6	2.7	2.7
ETHANOL	NS	ug/m3	9.2	2.1	17	300 EJ	652 EJ	6.6	52.6	963 EJ	3.4	61.6	2.6	17	13	23.2	57.7	51.6	36.6
ETHYL ACETATE	NS	ug/m3	1.8 J	< 0.47	12	4	2.8	1.4 J	5 J	4.3 J	3.2 J	2.8 J	< 0.47 J	0.94 J	12 J	8.6 J	< 0.21 J	3.6 J	7.2 J
Ethylbenzene	20	ug/m3	2.3	< 0.13	1.9	3.3	14	0.48 J	5.2	4.3	0.61 J	7.8	0.56 J	2.7	1.9	4	6.9	3.4	6.1
Freon 113	2.7	ug/m3	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.16	< 0.21	< 0.16	< 0.16	< 0.16
Hexachlorobutadiene	0.38	ug/m3	< 0.32 J	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32 J	< 0.32	< 0.67	< 0.32	< 0.67	< 0.67	< 0.67
HEXANE	13	ug/m3	0.88	< 0.18	0.88	0.85	5.6	0.92	1.5	1.8	< 0.18	2	0.49 J	1.1	0.7	0.56 J	1.3	1.2	1.8
ISOPROPYL ALCOHOL (MANUFACTURING-STRONG ACID	NS	ug/m3	0.91	< 0.16	< 0.16	0.81	0.59	3.2	4.2	10	< 0.16	0.93	1.9	4.2	1.9	< 0.096	< 0.096	< 0.096	2.2
METHYL METHACRYLATE	NS	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Methyl Tert Butyl Ether	NS	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	5.8	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.061	< 0.16	< 0.061	< 0.061	< 0.061
Methylene chloride	5.6	ug/m3	1.3	1.1	2.5	2.2	1.7	3.1	2.8	2.4	0.9	1.8	1.4	3.3	1.4	0.97	1.7	1	0.9
N-HEPTANE	6.6	ug/m3	0.61 J	< 0.11															

Table 3. Summary of Summa Canister Analytical Results, Operable Unit 1, Ramapo Paint Sludge Site.

Sample ID Sample Date	NYEPA National Ambient		REC (042913) 4/29/2013	REC (043013) 4/30/2013	REC (050113) 5/2/2013	REC (050213) 5/3/2013	REC (050313) 5/3/2013	REC (050613) 5/7/2013	REC (050713) 5/8/2013	REC (050813) 5/9/2013	REC (050913) 5/10/2013	REC (051013) 5/10/2013	REC(051313) 5/14/2013	REC (051413) 5/15/2013	REC (051513) 5/16/2013	REC (051613) 5/17/2013	REC (051713) 5/17/2013	REC (052013) 5/21/2013	REC (052113) 5/22/2013
VOCs continued																			
1,1,1-Trichloroethane	NS	ppbv	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.016	< 0.024	< 0.016	< 0.016	< 0.016
1,1,2,2-Tetrachloroethane	NS	ppbv	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.03	< 0.034	< 0.03	< 0.03	< 0.03
1,1,2-Trichloroethane	NS	ppbv	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.031	< 0.035	< 0.031	< 0.031	< 0.031
1,1-Dichloroethane	NS	ppbv	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.016	< 0.019	< 0.016	< 0.016	< 0.016
1,1-Dichloroethene	NS	ppbv	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.021	< 0.023	< 0.021	< 0.021	< 0.021
1,2,4-Trichlorobenzene	NS	ppbv	< 0.095 J	< 0.095	< 0.095	< 0.095	< 0.095	< 0.095	< 0.095	< 0.095	< 0.095	< 0.095	< 0.095 J	< 0.095 J	< 0.079 J	< 0.095 J	< 0.079 J	< 0.079 J	< 0.079 J
1,2,4-TRIMETHYLBENZENE	NS	ppbv	0.43	< 0.029	0.54	0.42	0.52	< 0.029	1.2	1.2	< 0.029	5.4	< 0.029	0.48	0.42	0.89	1.5	0.66	1.1
1,2-Dibromoethane	NS	ppbv	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.027	< 0.029	< 0.027	< 0.027	< 0.027
1,2-Dichlorobenzene	NS	ppbv	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.029	< 0.039	< 0.029	< 0.029	< 0.029
1,2-Dichloroethane	NS	ppbv	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.016	< 0.027	< 0.016	< 0.016	< 0.016
1,2-Dichloropropane	NS	ppbv	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.04	< 0.034	< 0.04	< 0.04	< 0.04
1,2-DICHLOROTETRAFLUOROETHANE;FLUOROCARBON 114	NS	ppbv	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.021	< 0.023	< 0.021	< 0.021	< 0.021
1,3,5-Trimethylbenzene	NS	ppbv	0.16 J	< 0.044	0.19 J	0.18 J	0.24	< 0.044	0.43	0.39	< 0.044	1.7	< 0.044	0.26	0.18 J	0.37	0.66	0.29	0.43
1,3-BUTADIENE	NS	ppbv	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.02	< 0.026	< 0.02	< 0.02	< 0.02
1,3-Dichlorobenzene	NS	ppbv	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.025	< 0.028	< 0.025	< 0.025	< 0.025
1,4-Dichlorobenzene	NS	ppbv	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.022	< 0.06	< 0.022	< 0.022	< 0.022
1,4-Dioxane	NS	ppbv	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.06	< 0.12	< 0.06	< 0.06	< 0.06
2,2,4-TRIMETHYLPENTANE	NS	ppbv	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	0.13 J	0.095 J	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	0.14 J	< 0.031	< 0.021	< 0.021	0.15 J
2-Butanone (MEK)	NS	ppbv	0.38	0.3	0.26	0.48	< 0.042	0.32	0.5	1.7	0.54	0.62	< 0.042	0.56	0.33	0.21	< 0.058	0.44	0.56
2-CHLOROTOLUENE	NS	ppbv	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.02	< 0.031	< 0.02	< 0.02	< 0.02
2-Hexanone	NS	ppbv	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.025	< 0.051	< 0.025	< 0.025	< 0.025
3-Chloropropene	NS	ppbv	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.028	< 0.035	< 0.028	< 0.028	< 0.028
4-ETHYLTOLUENE	NS	ppbv	0.12 J	< 0.028	0.12 J	< 0.028	0.16 J	< 0.028	0.35	0.31	< 0.028	1	< 0.028	0.13 J	0.11 J	0.25	0.5	0.17 J	0.34
4-Methyl-2-pentanone(MIBK)	NS	ppbv	< 0.084	< 0.084	< 0.084	< 0.084	< 0.084	< 0.084	0.34	0.35	< 0.084	0.5	< 0.084	< 0.084	< 0.029	< 0.084	0.22	0.2	0.24
Acetone	NS	ppbv	3.5	2.8	3.9	3.7	2.5	6.8	8.3	11.6	5.7	11.8	1.7	5.4	4.3	5.4	8.2	4.6	5.9
Benzene	NS	ppbv	0.72	< 0.029	0.12 J	0.1 J	1.5	0.17 J	0.13 J	0.14 J	0.11 J	0.11 J	< 0.029	< 0.029	0.17 J	< 0.029	0.11 J	0.12 J	0.18 J
BENZYL CHLORIDE	NS	ppbv	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.025	< 0.048	< 0.025	< 0.025	< 0.025
Bromodichloromethane	NS	ppbv	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.025	< 0.031	< 0.025	< 0.025	< 0.025
Bromoethene	NS	ppbv	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.014	< 0.027	< 0.014	< 0.014	< 0.014
Bromoform	NS	ppbv	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.022	< 0.029	< 0.022	< 0.022	< 0.022
Bromomethane	NS	ppbv	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.017	< 0.024	< 0.017	< 0.017	< 0.017
Carbon disulfide	NS	ppbv	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.017	< 0.024	< 0.017	< 0.017	< 0.017
Carbon tetrachloride	NS	ppbv	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.011	< 0.02	< 0.011	< 0.011	< 0.011
Chlorobenzene	NS	ppbv	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.025	< 0.04	< 0.025	< 0.025	< 0.025
Chloroethane	NS	ppbv	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.02	< 0.035	< 0.02	< 0.02	< 0.02
Chloroform	NS	ppbv	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.019	< 0.026	< 0.019	< 0.019	< 0.019
Chloromethane	NS	ppbv	0.58	0.5	0.54	0.63	0.63	0.68	0.72	0.67	0.67	0.73	0.61	0.81	0.62	0.63	0.57	0.81	0.63
cis-1,2-Dichloroethene	NS	ppbv	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.028	< 0.025	< 0.028	< 0.028	< 0.028
cis-1,3-Dichloropropene	NS	ppbv	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.019	< 0.033	< 0.019	< 0.019	< 0.019
Cyclohexane	NS	ppbv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.058	< 0.05	< 0.058	< 0.058	< 0.058
Dibromochloromethane	NS	ppbv	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.029	< 0.035	< 0.029	< 0.029	< 0.029
Dichlorodifluoromethane	NS	ppbv	0.57	0.57	0.59	0.58	0.62	0.66	0.63	0.6	0.59	0.58	0.59	0.58	0.59	0.6	0.52	0.54	0.55
ETHANOL	NS	ppbv	4.9	1.1	9.1	159 EJ	346 EJ	3.5	27.9	511 EJ	1.8	32.7	1.4	8.9	7.1	12.3	30.6	27.4	19.4
ETHYL ACETATE	NS	ppbv	0.51 J	< 0.13	3.2	1.1	0.77	0.38 J	1.4 J	1.2 J	0.89 J	0.79 J	< 0.13 J	0.26 J	3.2 J	2.4 J	< 0.057 J	1 J	2 J
Ethylbenzene	NS	ppbv	0.52	< 0.029	0.43	0.75	3.3	0.11 J	1.2	1	0.14 J	1.8	0.13 J	0.63	0.44	0.93	1.6	0.79	1.4
Freon 113	NS	ppbv	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.021	< 0.028	< 0.021	< 0.021	< 0.021
Hexachlorobutadiene	NS	ppbv	< 0.03 J	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03 J	< 0.03	< 0.063	< 0.03	< 0		

Table 3. Summary of Summa Canister Analytical Results, Operable Unit 1, Ramapo Paint Sludge Site.

Sample ID Sample Date	NYEPA National Ambient		REC (052213) 5/23/2013	REC (052313) 5/24/2013	REC(052813) 5/29/2013	REC(052913) 5/30/2013	REC (053013) 5/31/2013	REC (053113) 5/31/2013	REC (060313) 6/4/2013	REC (060413) 6/5/2013	REC (060513) 6/6/2013	REC (060613) 6/7/2013	REC (061113) 6/12/2013	REC (061213) 6/13/2013	REC (061413) 6/14/2013	REC (061713) 6/18/2013	REC (061813) 6/19/2013	REC (061913) 6/20/2013	REC (062103) 6/21/2013
VOCs																			
1,1,1-Trichloroethane	5	ug/m3	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087
1,1,2,2-Tetrachloroethane	0.7	ug/m3	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
1,1,2-Trichloroethane	6	ug/m3	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
1,1-Dichloroethane	0.16	ug/m3	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
1,1-Dichloroethene	18	ug/m3	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083
1,2,4-Trichlorobenzene	1.3	ug/m3	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59 J	< 0.59 J	< 0.59	< 0.59	< 0.59 J
1,2,4-TRIMETHYLBENZENE	6.7	ug/m3	8.8	18	< 0.084	< 0.084	6.4	< 0.084	1.2	3.6	3	< 0.084	4.2	1.7	16	4.4	0.84 J	1.4	5.9
1,2-Dibromoethane	2.5	ug/m3	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
1,2-Dichlorobenzene	7.8	ug/m3	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
1,2-Dichloroethane	1.6	ug/m3	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	0.4 J	< 0.065	< 0.065	< 0.065	< 0.065
1,2-Dichloropropane	0.74	ug/m3	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
1,2-DICHLOROTETRAFLUOROETHANE;FLUOROCARBON 114	0.31	ug/m3	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,3,5-Trimethylbenzene	4	ug/m3	3.4	6.9	< 0.074	< 0.074	2.1	< 0.074	0.54 J	1.6	1.2	< 0.074	2.3	0.98	6.4	1.1	< 0.074	< 0.074	2.6
1,3-BUTADIENE	NS	ug/m3	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044
1,3-Dichlorobenzene	5.3	ug/m3	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,4-Dichlorobenzene	6	ug/m3	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
1,4-Dioxane	NS	ug/m3	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
2,2,4-TRIMETHYLPENTANE	9.3	ug/m3	1.1	< 0.098	0.84 J	0.61 J	0.33 J	< 0.098	< 0.098	< 0.098	0.47 J	< 0.098	2.1	< 0.098	< 0.098	0.65 J	< 0.098	< 0.098	0.34 J
2-Butanone (MEK)	1.9	ug/m3	3.5	5.9	1.9	1.3	3.2	2.7	1.4	91.4	2.1	0.62	1.1	0.88	1.8	5	0.88	1	5
2-CHLOROTOLUENE	0.59	ug/m3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Hexanone	NS	ug/m3	0.45 J	0.53 J	< 0.1	< 0.1	0.45 J	< 0.1	< 0.1	1.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.9
3-Chloropropene	NS	ug/m3	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088
4-ETHYLTOLUENE	NS	ug/m3	2.3	4.5	< 0.074	< 0.074	1.2	< 0.074	0.98	0.79 J	0.79 J	< 0.074	1.5	0.64 J	4.7	0.84 J	< 0.074	< 0.074	2
4-Methyl-2-pentanone(MIBK)	NS	ug/m3	5.3	11	< 0.12	< 0.12	2.8	< 0.12	0.98	11	0.78 J	< 0.12	< 0.12	< 0.12	2.7	6.1	< 0.12	< 0.12	< 0.12
Acetone	16	ug/m3	39.2	69.8	15	13	29.2	19	15	14	12	9	13	7.8	40.9	27.1	9.3	9	24.9
Benzene	8.9	ug/m3	0.89	1.1	0.73	0.61 J	0.32 J	< 0.067	< 0.067	< 0.067	0.38 J	< 0.067	0.58 J	< 0.067	0.35 J	0.45 J	< 0.067	< 0.067	0.35 J
BENZYL CHLORIDE	0.07	ug/m3	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Bromodichloromethane	0.01	ug/m3	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Bromoethene	NS	ug/m3	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061
Bromoform	0	ug/m3	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Bromomethane	12	ug/m3	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066
Carbon disulfide	0.3	ug/m3	< 0.053	0.56 J	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	1.2	< 0.053	< 0.053	< 0.053
Carbon tetrachloride	1	ug/m3	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069
Chlorobenzene	1.5	ug/m3	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Chloroethane	220	ug/m3	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
Chloroform	3.1	ug/m3	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093
Chloromethane	1.5	ug/m3	1.6	1.8	1.4	1.5	1.6	1.4	1.2	1.1	1	1	1.2	1.2	1.2	1.1	1	1.1	1.1
cis-1,2-Dichloroethene	1.3	ug/m3	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	1.2	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
cis-1,3-Dichloropropene	110	ug/m3	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086
Cyclohexane	NS	ug/m3	< 0.2	1.1	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dibromochloromethane	0.27	ug/m3	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Dichlorodifluoromethane	2.2	ug/m3	2.6	2.4	3.3	3.4	2.4	2.4	2.4	2.4	2.3	2.3	2.4	2.4	2.6	2.6	2	2	2.5
ETHANOL	NS	ug/m3	23.4	37.9	7.5	7.3	303 EJ	3.4	22.2	11	12	3.6	53.5	14	186 EJ	84 EJ	< 0.36	3.8	24.7
ETHYL ACETATE	NS	ug/m3	12	12	54.3 J	48.2 J	7.2	1.1	2.6	5	3	1.7	4	2.5	1.3 J	6.1 J	< 0.21	3.6	0.97 J
Ethylbenzene	20	ug/m3	8.7	18	0.52 J	0.56 J	0.83 J	< 0.087	2	5.6	4.8	< 0.087	5.6	2.6	14	1.7	0.69 J	1	6.9
Freon 113	2.7	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Hexachlorobutadiene	0.38	ug/m3	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67 J	< 0.67 J	< 0.67 J	< 0.67 J	< 0.67 J
HEXANE	13	ug/m3	5.3	11	0.81	2.1	1.9	< 0.056	1.1	1.7	1.3	< 0.056	1.1	0.42 J	1.9	34	< 0.056	< 0.056	0.67 J
ISOPROPYL ALCOHOL (MANUFACTURING-STRONG ACID	NS	ug/m3	< 0.096	< 0.096	8.6	7.4	6.4	< 0.096	1.7	2.9	< 0.096	0.74	0.64	< 0.096	7.4	1.5	< 0.096	< 0.096	1.1
METHYL METHACRYLATE	NS	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Methyl Tert Butyl Ether	NS	ug/m3	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061
Methylene chloride	5.6	ug/m3	2.4	3.5	1.9	9	1.5	0.83	1.3	1.5	1.2	0.97	0.97	0.9	1.9	0.87	0.8		

Table 3. Summary of Summa Canister Analytical Results, Operable Unit 1, Ramapo Paint Sludge Site.

Sample ID Sample Date	NYEPA National Ambient		REC (052213) 5/23/2013	REC (052313) 5/24/2013	REC(052813) 5/29/2013	REC(052913) 5/30/2013	REC (053013) 5/31/2013	REC (053113) 5/31/2013	REC (060313) 6/4/2013	REC (060413) 6/5/2013	REC (060513) 6/6/2013	REC (060613) 6/7/2013	REC (061113) 6/12/2013	REC (061213) 6/13/2013	REC (061413) 6/14/2013	REC (061713) 6/18/2013	REC (061813) 6/19/2013	REC (061913) 6/20/2013	REC (062013) 6/21/2013
VOCs continued																			
1,1,1-Trichloroethane	NS	ppbv	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
1,1,2,2-Tetrachloroethane	NS	ppbv	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
1,1,2-Trichloroethane	NS	ppbv	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031
1,1-Dichloroethane	NS	ppbv	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
1,1-Dichloroethene	NS	ppbv	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021
1,2,4-Trichlorobenzene	NS	ppbv	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079 J	< 0.079 J	< 0.079	< 0.079	< 0.079 J
1,2,4-TRIMETHYLBENZENE	NS	ppbv	1.8	3.6	< 0.017	< 0.017	1.3	< 0.017	0.25	0.74	0.62	< 0.017	0.85	0.34	3.2	0.89	0.17 J	0.28	1.2
1,2-Dibromoethane	NS	ppbv	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027
1,2-Dichlorobenzene	NS	ppbv	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029
1,2-Dichloroethane	NS	ppbv	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	0.1 J	< 0.016	< 0.016	< 0.016
1,2-Dichloropropane	NS	ppbv	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
1,2-DICHLOROTETRAFLUOROETHANE;FLUOROCARBON 114	NS	ppbv	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021
1,3,5-Trimethylbenzene	NS	ppbv	0.7	1.4	< 0.015	< 0.015	0.43	< 0.015	0.11 J	0.33	0.25	< 0.015	0.47	0.2	1.3	0.22	< 0.015	< 0.015	0.52
1,3-BUTADIENE	NS	ppbv	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
1,3-Dichlorobenzene	NS	ppbv	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
1,4-Dichlorobenzene	NS	ppbv	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022
1,4-Dioxane	NS	ppbv	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
2,2,4-TRIMETHYLPENTANE	NS	ppbv	0.23	< 0.021	0.18 J	0.13 J	0.07 J	< 0.021	< 0.021	< 0.021	0.1 J	< 0.021	0.44	< 0.021	< 0.021	0.14 J	< 0.021	< 0.021	0.072 J
2-Butanone (MEK)	NS	ppbv	1.2	2	0.65	0.43	1.1	0.9	0.49	31	0.7	0.21	0.37	0.3	0.61	1.7	0.3	0.34	1.7
2-CHLOROTOLUENE	NS	ppbv	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
2-Hexanone	NS	ppbv	0.11 J	0.13 J	< 0.025	< 0.025	0.11 J	< 0.025	< 0.025	0.26	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.22
3-Chloropropene	NS	ppbv	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028
4-ETHYLTOLUENE	NS	ppbv	0.46	0.91	< 0.015	< 0.015	0.24	< 0.015	< 0.015	0.2	0.16 J	< 0.015	0.31	0.13 J	0.96	0.17 J	< 0.015	< 0.015	0.41
4-Methyl-2-pentanone(MIBK)	NS	ppbv	1.3	2.7	< 0.029	< 0.029	0.69	< 0.029	0.24	2.6	0.19 J	< 0.029	< 0.029	< 0.029	0.66	1.5	< 0.029	< 0.029	< 0.029
Acetone	NS	ppbv	16.5	29.4	6.3	5.3	12.3	7.9	6.2	5.8	5.1	3.8	5.4	3.3	17.2	11.4	3.9	3.8	10.5
Benzene	NS	ppbv	0.28	0.34	0.23	0.19 J	0.1 J	< 0.021	< 0.021	< 0.021	0.12 J	< 0.021	0.18 J	< 0.021	0.11 J	0.14 J	< 0.021	< 0.021	0.11 J
BENZYL CHLORIDE	NS	ppbv	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Bromodichloromethane	NS	ppbv	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Bromoethene	NS	ppbv	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
Bromoform	NS	ppbv	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022
Bromomethane	NS	ppbv	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
Carbon disulfide	NS	ppbv	< 0.017	0.18 J	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	0.39	< 0.017	< 0.017	< 0.017
Carbon tetrachloride	NS	ppbv	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Chlorobenzene	NS	ppbv	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Chloroethane	NS	ppbv	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Chloroform	NS	ppbv	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019
Chloromethane	NS	ppbv	0.78	0.85	0.7	0.77	0.69	0.58	0.53	0.5	0.49	0.6	0.59	0.59	0.53	0.5	0.51	0.51	0.54
cis-1,2-Dichloroethene	NS	ppbv	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028
cis-1,3-Dichloropropene	NS	ppbv	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019
Cyclohexane	NS	ppbv	< 0.058	0.33	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058
Dibromochloromethane	NS	ppbv	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029
Dichlorodifluoromethane	NS	ppbv	0.53	0.48	0.66	0.69	0.48	0.49	0.49	0.46	0.47	0.48	0.49	0.53	0.52	0.41	0.41	0.51	0.51
ETHANOL	NS	ppbv	12.4	20.1	4	3.9	161 EJ	1.8	11.8	5.8	6.4	1.9	28.4	7.3	98.8 EJ	44.6 EJ	< 0.19	2	13.1
ETHYL ACETATE	NS	ppbv	3.4	3.2	15.1 J	13.4 J	2	0.3	0.71	1.4	0.84	0.48	1.1	0.61	0.37 J	1.7 J	< 0.057	1	0.27 J
Ethylbenzene	NS	ppbv	2	4.2	0.13 J	0.13 J	0.19 J	< 0.02	0.45	1.3	1.1	< 0.02	1.3	0.6	3.3	0.4	0.16 J	0.24	1.6
Freon 113	NS	ppbv	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021
Hexachlorobutadiene	NS	ppbv	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063 J	< 0.063 J	< 0.063 J	< 0.063 J	<

Table 3. Summary of Summa Canister Analytical Results, Operable Unit 1, Ramapo Paint Sludge Site.

Sample ID Sample Date	NYEPA National Ambient		REC (062113) 6/21/2013	REC (062413) 6/25/2013	REC (062513) 6/26/2013	REC (062613) 6/27/2013	REC (062713) 6/28/2013	REC (062813) 6/28/2013	REC (070113) 7/2/2013	REC (070213) 7/3/2013	REC (070313) 7/3/2013	REC (070813) 7/9/2013	REC (070913) 7/10/2013	REC (071013) 7/10/2013	REC (071113) 7/11/2013	REC (071213) 7/12/2013	REC (071513) 7/15/2013	REC (071613) 7/16/2013	REC (071713) 7/17/2013
VOCs																			
1,1,1-Trichloroethane	5	ug/m3	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087
1,1,2,2-Tetrachloroethane	0.7	ug/m3	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
1,1,2-Trichloroethane	6	ug/m3	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
1,1-Dichloroethane	0.16	ug/m3	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
1,1-Dichloroethene	18	ug/m3	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083
1,2,4-Trichlorobenzene	1.3	ug/m3	< 0.59 J	< 0.59 J	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59 J
1,2,4-TRIMETHYLBENZENE	6.7	ug/m3	15	12	< 0.084	6.4	0.47 J	< 0.084	17	1.6	13	0.84 J	< 0.084	5.4	2.3	6.9	3.9	7.4	4.8
1,2-Dibromoethane	2.5	ug/m3	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
1,2-Dichlorobenzene	7.8	ug/m3	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
1,2-Dichloroethane	1.6	ug/m3	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
1,2-Dichloropropane	0.74	ug/m3	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
1,2-DICHLOROTETRAFLUOROETHANE;FLUOROCARBON 114	0.31	ug/m3	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,3,5-Trimethylbenzene	4	ug/m3	6.4	4	< 0.074	2.2	< 0.074	< 0.074	6.4	0.59 J	5.4	< 0.074	< 0.074	1.9	0.59 J	2.4	1.1	2.5	1.7
1,3-BUTADIENE	NS	ug/m3	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044
1,3-Dichlorobenzene	5.3	ug/m3	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,4-Dichlorobenzene	6	ug/m3	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
1,4-Dioxane	NS	ug/m3	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
2,2,4-TRIMETHYLPENTANE	9.3	ug/m3	< 0.098	< 0.098	< 0.098	< 0.098	< 0.098	< 0.098	0.93	< 0.098	< 0.098	< 0.098	< 0.098	< 0.098	7.9	< 0.098	< 0.098	< 0.098	< 0.098
2-Butanone (MEK)	1.9	ug/m3	2.4	2.7	2.8	2	3.8	1.3	17	1.3	1.6	11	1.7	6.8	5.6	5.3	2.2	5.6	3.2
2-CHLOROTOLUENE	0.59	ug/m3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Hexanone	NS	ug/m3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	5.3	< 0.1	< 0.1	< 0.1	< 0.1	1.3	< 0.1	< 0.1	< 0.1	0.82	< 0.1 J
3-Chloropropene	NS	ug/m3	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088
4-ETHYLTOLUENE	NS	ug/m3	4.9	2.4	< 0.074	1.6	< 0.074	< 0.074	4.8	< 0.074	3.8	< 0.074	< 0.074	1	< 0.074	1.7	0.88 J	1.5	0.74 J
4-Methyl-2-pentanone(MIBK)	NS	ug/m3	1	2.1	< 0.12	< 0.12	< 0.12	< 0.12	9.4	< 0.12	< 0.12	< 0.12	< 0.12	1.2	4.5	1.1	0.53 J	1.6	1.1
Acetone	16	ug/m3	22	27.6	13	19	16	10	51.3	11	16	19	10	58.9	34.4	31.1	14	36.6	41.3
Benzene	8.9	ug/m3	0.38 J	0.35 J	0.32 J	0.32 J	0.32 J	< 0.067	0.64	< 0.067	0.31 J	< 0.067	< 0.067	0.35 J	0.31 J	< 0.067	0.64	< 0.067	2.1
BENZYL CHLORIDE	0.07	ug/m3	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Bromodichloromethane	0.01	ug/m3	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Bromoethene	NS	ug/m3	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061
Bromoform	0	ug/m3	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Bromomethane	12	ug/m3	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066
Carbon disulfide	0.3	ug/m3	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	1.7	1.5	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
Carbon tetrachloride	1	ug/m3	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	0.53 J	< 0.069	< 0.069	< 0.069	< 0.069
Chlorobenzene	1.5	ug/m3	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Chloroethane	220	ug/m3	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
Chloroform	3.1	ug/m3	< 0.093	< 0.093	< 0.093	< 0.093	0.48 J	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093
Chloromethane	1.5	ug/m3	1.1	1.1	1.1	1.3	1.5	1.2	1.3	1.4	1.4	1.3	1.1	2.1	1.1	0.91	0.89	1.1	1.8
cis-1,2-Dichloroethene	1.3	ug/m3	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
cis-1,3-Dichloropropene	110	ug/m3	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086
Cyclohexane	NS	ug/m3	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.86	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dibromochloromethane	0.27	ug/m3	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Dichlorodifluoromethane	2.2	ug/m3	2.6	2.5	2.7	2.8	3	2.1	1.9	2.7	2.8	2	2	2.5	3.4	2.4	2.5	2.5	2.6
ETHANOL	NS	ug/m3	48.8	27.7	7.5	273 EJ	4.7	1.5	15200 EDJ	11	12	1.6	1.1	8.3	7	13	5.8	35.8	5.5
ETHYL ACETATE	NS	ug/m3	0.76 J	1.6 J	1.2 J	1.8	0.76 J	< 0.21	13	1.9	1.4	1.3	1	1.4	< 0.21	0.86	95.4	6.1	8.6
Ethylbenzene	20	ug/m3	17	0.78 J	< 0.087	2.9 J	< 0.087	< 0.087	5.2	1.9	19	0.65 J	< 0.087	2	0.65 J	3.2	1	1.4	1.1
Freon 113	2.7	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	2.6	< 0.16	1 J	< 0.16	< 0.16
Hexachlorobutadiene	0.38	ug/m3	< 0.67 J	< 0.67 J	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67 J
HEXANE	13	ug/m3	1.4	0.92	< 0.056	0.74	2.6	< 0.056	23	0.53 J	1.8	< 0.056	< 0.056	0.81	0.46 J	0.7	3.5	0.63 J	0.6 J
ISOPROPYL ALCOHOL (MANUFACTURING-STRONG ACID	NS	ug/m3	< 0.096	< 0.096	< 0.096	< 0.096	< 0.096	< 0.096	3.2	< 0.096	0.98	< 0.096	< 0.096	< 0.096	1.2	2.9	2.2	3.2	< 0.096
METHYL METHACRYLATE	NS	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Methyl Tert Butyl Ether	NS	ug/m3	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061
Methylene chloride	5.6	ug/m3	2	1.1	1.1	0.9	8.3	1	1.9	1.9	1	1.2	0.94						

Table 3. Summary of Summa Canister Analytical Results, Operable Unit 1, Ramapo Paint Sludge Site.

Sample ID Sample Date	NYEPA National Ambient		REC (071813) 7/18/2013	REC (071913) 7/19/2013	REC (072213) 7/22/2013	REC (072313) 7/23/2013	REC (072413) 7/24/2013	REC (072513) 7/25/2013	REC (072613) 7/26/2013	REC (072913) 7/29/2013	REC (073013) 7/30/2013	REC (073113) 7/31/2013	REC (080113) 8/1/2013	REC (080213) 8/2/2013
VOCs														
1,1,1-Trichloroethane	5	ug/m3	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087
1,1,2,2-Tetrachloroethane	0.7	ug/m3	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
1,1,2-Trichloroethane	6	ug/m3	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
1,1-Dichloroethane	0.16	ug/m3	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
1,1-Dichloroethene	18	ug/m3	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083
1,2,4-Trichlorobenzene	1.3	ug/m3	< 0.59 J	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59 J	< 0.59 J	< 0.59
1,2,4-TRIMETHYLBENZENE	6.7	ug/m3	5.4	15	11	< 0.084	1	< 0.084	0.79 J	< 0.084	< 0.084	< 0.084	0.84 J	< 0.084
1,2-Dibromoethane	2.5	ug/m3	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
1,2-Dichlorobenzene	7.8	ug/m3	0.6 J	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
1,2-Dichloroethane	1.6	ug/m3	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
1,2-Dichloropropane	0.74	ug/m3	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
1,2-DICHLOROTETRAFLUOROETHANE;FLUOROCARBON 114	0.31	ug/m3	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,3,5-Trimethylbenzene	4	ug/m3	1.9	5.4	4.4	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074
1,3-BUTADIENE	NS	ug/m3	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044
1,3-Dichlorobenzene	5.3	ug/m3	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,4-Dichlorobenzene	6	ug/m3	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
1,4-Dioxane	NS	ug/m3	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
2,2,4-TRIMETHYLPENTANE	9.3	ug/m3	< 0.098	< 0.098	< 0.098	< 0.098	< 0.098	< 0.098	< 0.098	< 0.098	< 0.098	< 0.098	0.65 J	< 0.098
2-Butanone (MEK)	1.9	ug/m3	1.9	2.9	2	1.4	1.2	< 0.17	0.68	1.9	< 0.17	1	1.9	0.97
2-CHLOROTOLUENE	0.59	ug/m3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Hexanone	NS	ug/m3	< 0.1 J	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
3-Chloropropene	NS	ug/m3	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088
4-ETHYLTOLUENE	NS	ug/m3	0.84 J	3.4	3.1	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074
4-Methyl-2-pentanone(MIBK)	NS	ug/m3	1	2.4	1.5	< 0.12	0.82	< 0.12	< 0.12	< 0.12	< 0.12	0.57 J	< 0.12	< 0.12
Acetone	16	ug/m3	28	38.2	27.3	9.5	12	4.5	6.7	13	5.5	9.3	15	10
Benzene	8.9	ug/m3	< 0.067	0.38 J	0.38 J	< 0.067	0.48 J	< 0.067	< 0.067	< 0.067	< 0.067	< 0.067	0.51 J	< 0.067
BENZYL CHLORIDE	0.07	ug/m3	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Bromodichloromethane	0.01	ug/m3	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Bromoethene	NS	ug/m3	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061
Bromoform	0	ug/m3	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Bromomethane	12	ug/m3	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066
Carbon disulfide	0.3	ug/m3	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
Carbon tetrachloride	1	ug/m3	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069
Chlorobenzene	1.5	ug/m3	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Chloroethane	220	ug/m3	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
Chloroform	3.1	ug/m3	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093	< 0.093
Chloromethane	1.5	ug/m3	1.6	0.99	0.97	0.99	0.91	0.85	0.87	0.93	0.83	1.2	1.3	0.95
cis-1,2-Dichloroethene	1.3	ug/m3	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
cis-1,3-Dichloropropene	110	ug/m3	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086
Cyclohexane	NS	ug/m3	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dibromochloromethane	0.27	ug/m3	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Dichlorodifluoromethane	2.2	ug/m3	2.7	2.2	2.4	2.4	2.5	7.4 J	2.5	2.6	2.5	2.8	2.9	2.4
ETHANOL	NS	ug/m3	8.3	431 EJ	599 EJ	3.2	80.1 EJ	1.8	2.3	2.3	4.7	1.1	0.94	3.2
ETHYL ACETATE	NS	ug/m3	9	5	0.9	7.9	12	1	1.2	2.6	2.3	5.4	1.5	9.7
Ethylbenzene	20	ug/m3	0.48 J	5.6	8.7	< 0.087	0.91	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	0.65 J	< 0.087
Freon 113	2.7	ug/m3	< 0.16	< 0.16	0.57 J	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Hexachlorobutadiene	0.38	ug/m3	< 0.67 J	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67 J	< 0.67 J	< 0.67
HEXANE	13	ug/m3	0.74	3	1.1	< 0.056	0.34 J	< 0.056	0.46 J	< 0.056	< 0.056	< 0.056	0.56 J	< 0.056
ISOPROPYL ALCOHOL (MANUFACTURING-STRONG ACID	NS	ug/m3	< 0.096	7.1	5.4	< 0.096	< 0.096	< 0.096	< 0.096	< 0.096	< 0.096	< 0.096	< 0.096	< 0.096
METHYL METHACRYLATE	NS	ug/m3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Methyl Tert Butyl Ether	NS	ug/m3	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061
Methylene chloride	5.6	ug/m3	2.3	1.1	1.5	1.5	1.7	0.69	1.6	0.73	0.73	0.73	1.3	0.97
N-HEPTANE	6.6	ug/m3	< 0.082	2	3	< 0.082	0.4 J	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	0.57 J	< 0.082
PROPYLENE (PROPENE)	NS	ug/m3	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	8.1	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
Styrene	1.5	ug/m3	0.81 J	1	0.51 J	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085
TERT-BUTYL ALCOHOL	NS	ug/m3	0.52 J	1.8	1.9	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Tetrachloroethene	5.8	ug/m3	0.57	2.2	< 0.2	< 0.2	6.6	< 0.2	< 0.2	< 0.2	< 0.2	3.7	< 0.2	< 0.2
TETRAHYDROFURAN	NS	ug/m3	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Toluene	32	ug/m3	1.5	6.4	8.3	0.68 J	1.4	0.49 J	0.57 J	0.53 J	0.41 J	0.6 J	2.1	1.2
trans-1,2-Dichloroethene	3	ug/m3	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059
trans-1,3-Dichloropropene	NS	ug/m3	< 0.095	< 0.095	< 0.095	< 0.095	< 0.095	< 0.095	< 0.095	< 0.095	< 0.095	< 0.095	< 0.095	< 0.095
Trichloroethene	2.7	ug/m3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Trichlorofluoromethane	1.4	ug/m3	1.8	1.2	1.4	1.3	1.4	1.5	1.7	1.4	1.5	1.5	1.6	1.4
VINYL ACETATE	NS	ug/m3	< 0.2	< 0.2 J	< 0.2 J	< 0.2 J	< 0.2 J	< 0.2 J	< 0.2 J	< 0.2 J	< 0.2 J	< 0.2	< 0.2	< 0.2 J
Vinyl chloride	32	ug/m3	< 0.043	< 0.043	< 0.043	< 0.043	< 0.043	< 0.043	< 0.043	< 0.043	< 0.043	< 0.043	< 0.043	< 0.043
m,p-Xylene	NS	ug/m3	1.7	24	40	0.56 J	3.8	< 0.14	0.91	0.96	< 0.14	1.4	2.7	0.56 J
o-Xylene	33	ug/m3	0.78 J	9.1	15	< 0.083	0.74 J	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	1	< 0.083
Xylene (total)	129	ug/m3	2.5	33	54.7	0.56 J	4.3	< 0.083	0.91	0.96	< 0.083	1.4	3.7	0.56 J

Table 3. Summary of Summa Canister Analytical Results, Operable Unit 1, Ramapo Paint Sludge Site.

Sample ID Sample Date	NYEPA National Ambient		REC (071813) 7/18/2013	REC (071913) 7/19/2013	REC (072213) 7/22/2013	REC (072313) 7/23/2013	REC (072413) 7/24/2013	REC (072513) 7/25/2013	REC (072613) 7/26/2013	REC (072913) 7/29/2013	REC (073013) 7/30/2013	REC (073113) 7/31/2013	REC (080113) 8/1/2013	REC (080213) 8/2/2013
VOCs continued														
1,1,1-Trichloroethane	NS	ppbv	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
1,1,2,2-Tetrachloroethane	NS	ppbv	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
1,1,2-Trichloroethane	NS	ppbv	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031
1,1-Dichloroethane	NS	ppbv	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
1,1-Dichloroethene	NS	ppbv	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021
1,2,4-Trichlorobenzene	NS	ppbv	< 0.079 J	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079 J	< 0.079 J	< 0.079
1,2,4-TRIMETHYLBENZENE	NS	ppbv	1.1	3.1	2.3	< 0.017	0.21	< 0.017	0.16 J	< 0.017	< 0.017	< 0.017	0.17 J	< 0.017
1,2-Dibromoethane	NS	ppbv	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027
1,2-Dichlorobenzene	NS	ppbv	0.1 J	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029
1,2-Dichloroethane	NS	ppbv	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
1,2-Dichloropropane	NS	ppbv	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
1,2-DICHLOROTETRAFLUOROETHANE;FLUOROCARBON 114	NS	ppbv	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021
1,3,5-Trimethylbenzene	NS	ppbv	0.39	1.1	0.9	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
1,3-BUTADIENE	NS	ppbv	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
1,3-Dichlorobenzene	NS	ppbv	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
1,4-Dichlorobenzene	NS	ppbv	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022
1,4-Dioxane	NS	ppbv	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
2,2,4-TRIMETHYLPENTANE	NS	ppbv	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	0.14 J	< 0.021
2-Butanone (MEK)	NS	ppbv	0.64	0.97	0.67	0.49	0.39	< 0.058	0.23	0.64	< 0.058	0.34	0.63	0.33
2-CHLOROTOLUENE	NS	ppbv	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
2-Hexanone	NS	ppbv	< 0.025 J	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
3-Chloropropene	NS	ppbv	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028
4-ETHYLTOLUENE	NS	ppbv	0.17 J	0.7	0.64	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
4-Methyl-2-pentanone(MIBK)	NS	ppbv	0.25	0.58	0.37	< 0.029	0.2	< 0.029	< 0.029	< 0.029	< 0.029	0.14 J	< 0.029	< 0.029
Acetone	NS	ppbv	11.8	16.1	11.5	4	5.2	1.9	2.8	5.4	2.3	3.9	6.2	4.2
Benzene	NS	ppbv	< 0.021	0.12 J	0.12 J	< 0.021	0.15 J	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	0.16 J	< 0.021
BENZYL CHLORIDE	NS	ppbv	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Bromodichloromethane	NS	ppbv	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Bromoethene	NS	ppbv	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
Bromoform	NS	ppbv	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022
Bromomethane	NS	ppbv	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
Carbon disulfide	NS	ppbv	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
Carbon tetrachloride	NS	ppbv	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Chlorobenzene	NS	ppbv	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Chloroethane	NS	ppbv	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Chloroform	NS	ppbv	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019
Chloromethane	NS	ppbv	0.76	0.48	0.47	0.48	0.44	0.41	0.42	0.45	0.4	0.57	0.64	0.46
cis-1,2-Dichloroethene	NS	ppbv	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028
cis-1,3-Dichloropropene	NS	ppbv	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019
Cyclohexane	NS	ppbv	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058
Dibromochloromethane	NS	ppbv	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029
Dichlorodifluoromethane	NS	ppbv	0.54	0.45	0.48	0.49	0.5	1.5 J	0.51	0.53	0.5	0.57	0.59	0.49
ETHANOL	NS	ppbv	4.4	229 EJ	318 EJ	1.7	42.5 EJ	0.98	1.2	1.2	2.5	0.61	0.5	1.7
ETHYL ACETATE	NS	ppbv	2.5	1.4	0.25	2.2	3.2	0.28	0.34	0.73	0.63	1.5	0.42	2.7
Ethylbenzene	NS	ppbv	0.11 J	1.3	2	< 0.02	0.21	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.15 J	< 0.02
Freon 113	NS	ppbv	< 0.021	< 0.021	0.074 J	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021
Hexachlorobutadiene	NS	ppbv	< 0.063 J	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063 J	< 0.063 J	< 0.063
HEXANE	NS	ppbv	0.21	0.85	0.31	< 0.016	0.097 J	< 0.016	0.13 J	< 0.016	< 0.016	< 0.016	0.16 J	< 0.016
ISOPROPYL ALCOHOL (MANUFACTURING-STRONG ACID	NS	ppbv	< 0.039	2.9	2.2	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039
METHYL METHACRYLATE	NS	ppbv	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Methyl Tert Butyl Ether	NS	ppbv	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
Methylene chloride	NS	ppbv	0.65	0.31	0.42	0.44	0.48	0.2	0.45	0.21	0.21	0.21	0.36	0.28
N-HEPTANE	NS	ppbv	< 0.02	0.48	0.72	< 0.02	0.098 J	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.14 J	< 0.02
PROPYLENE (PROPENE)	NS	ppbv	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	4.7	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031
Styrene	NS	ppbv	0.19 J	0.24	0.12 J	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
TERT-BUTYL ALCOHOL	NS	ppbv	0.17 J	0.59	0.63	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044
Tetrachloroethene	NS	ppbv	0.084	0.32	< 0.029	< 0.029	0.98	< 0.029	< 0.029	< 0.029	< 0.029	0.55	< 0.029	< 0.029
TETRAHYDROFURAN	NS	ppbv	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045
Toluene	NS	ppbv	0.39	1.7	2.2	0.18 J	0.36	0.13 J	0.15 J	0.14 J	0.11 J	0.16 J	0.55	0.31
trans-1,2-Dichloroethene	NS	ppbv	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
trans-1,3-Dichloropropene	NS	ppbv	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021
Trichloroethene	NS	ppbv	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019
Trichlorofluoromethane	NS	ppbv	0.32	0.22	0.25	0.24	0.25	0.27	0.31	0.25	0.26	0.26	0.29	0.25
VINYL ACETATE	NS	ppbv	< 0.058	< 0.058 J	< 0.058 J	< 0.058 J	< 0.058 J	< 0.058 J	< 0.058 J	< 0.058 J	< 0.058 J	< 0.058	< 0.058	< 0.058 J
Vinyl chloride	NS	ppbv	< 0.017	< 0.017	< 0.017	< 0								

Table 4. Summary of Waste Water Analytical Results, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	NY TOGS Class GA GW Standards		SUMP(031513) 3/15/2013	WSA(031513) 3/15/2013	WW-IN(031513) 3/15/2013	WW-EFF(031513) 3/15/2013	WW-EFF-PM(031513) 3/15/2013	WW(032913) INFLUENT 3/29/2013	WW(041813)-IN 4/18/2013	WW(061213)-IN 6/12/2013	WW(030613) 3/6/2013	WW(032913) EFF 3/29/2013
VOCs-8011												
1,2-Dibromo-3-chloropropane	0.00004	mg/l	< 0.000014	< 0.000014	< 0.000014	< 0.000014	< 0.000014	< 0.000014	< 0.000014	< 0.000014	< 0.000014	< 0.000014
1,2-Dibromoethane	0.0000006	mg/l	< 0.000011	< 0.000011	< 0.000011	< 0.000011	< 0.000011	< 0.000011	< 0.000011	< 0.000011	< 0.000011	< 0.000011
VOCs												
1,1,1-Trichloroethane	0.005	mg/l	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
1,1,2,2-Tetrachloroethane	0.005	mg/l	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
1,1,2-Trichloroethane	0.001	mg/l	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025
1,1-Dichloroethane	0.005	mg/l	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
1,1-Dichloroethene	0.005	mg/l	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028
1,2,4-Trichlorobenzene	0.005	mg/l	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
1,2-Dibromo-3-chloropropane	0.00004	mg/l	< 0.00081	< 0.00081	< 0.00081	< 0.00081	< 0.00081	< 0.00081	< 0.00081	< 0.00081	< 0.00081	< 0.00081
1,2-Dibromoethane	0.0000006	mg/l	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023
1,2-Dichlorobenzene	0.003	mg/l	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023
1,2-Dichloroethane	0.0006	mg/l	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026
1,2-Dichloropropane	0.001	mg/l	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
1,3-Dichlorobenzene	0.003	mg/l	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
1,4-Dichlorobenzene	0.003	mg/l	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
2-Butanone (MEK)	NS	mg/l	< 0.0015	0.0372	0.0027 J	< 0.0015	< 0.0015	< 0.0015	0.0103	0.0189	0.0195	< 0.0015
2-Hexanone	NS	mg/l	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
4-Methyl-2-pentanone(MIBK)	NS	mg/l	< 0.00045	0.0659	0.0034 J	< 0.00045	< 0.00045	< 0.00045	0.0112	0.0442	0.0552	< 0.00045
Acetone	NS	mg/l	< 0.0036	0.183	0.0151	< 0.0036	< 0.0036	< 0.0036	0.0378	0.192 D	0.262 D	< 0.0036
Benzene	0.001	mg/l	< 0.00022	0.00029 J	< 0.00022	< 0.00022	< 0.00022	0.00028 J	0.0011	0.0014	< 0.00022	< 0.00022
Bromodichloromethane	NS	mg/l	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095
Bromoform	NS	mg/l	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016
Bromomethane	0.005	mg/l	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025
Carbon disulfide	0.06	mg/l	< 0.00017	< 0.00017	< 0.00017	< 0.00017	< 0.00017	< 0.00017	< 0.00017	0.0012	< 0.00017	< 0.00017
Carbon tetrachloride	0.005	mg/l	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
Chlorobenzene	0.005	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Chloroethane	0.005	mg/l	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025
Chloroform	0.007	mg/l	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
Chloromethane	0.005	mg/l	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027	0.002	< 0.00027	< 0.00027
cis-1,2-Dichloroethene	0.005	mg/l	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022
cis-1,3-Dichloropropene	NS	mg/l	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012
Cyclohexane	NS	mg/l	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
Dibromochloromethane	NS	mg/l	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
Dichlorodifluoromethane	0.005	mg/l	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
Ethylbenzene	0.005	mg/l	< 0.00018	0.0143	0.0023	< 0.00018	< 0.00018	0.0186	0.0127	0.0439	< 0.00018	< 0.00018
Freon 113	0.005	mg/l	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055
Isopropylbenzene	0.005	mg/l	< 0.00018	0.0013	0.00028 J	< 0.00018	< 0.00018	0.0043	0.002	0.004	< 0.00018	< 0.00018
Methyl Acetate	NS	mg/l	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
Methyl Tert Butyl Ether	0.01	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Methylcyclohexane	NS	mg/l	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	0.00061 J	0.0004 J	< 0.00013	< 0.00013	< 0.00013
Methylene chloride	0.005	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	0.0075	< 0.00018	< 0.00018
Styrene	0.005	mg/l	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
Tetrachloroethene	0.005	mg/l	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
Toluene	0.005	mg/l	< 0.00018	0.0182	0.003	< 0.00018	< 0.00018	0.0129	0.0173	0.1	< 0.00018	< 0.00018
trans-1,2-Dichloroethene	0.005	mg/l	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
trans-1,3-Dichloropropene	NS	mg/l	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
Trichloroethene	0.005	mg/l	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
Trichlorofluoromethane	0.005	mg/l	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Vinyl chloride	0.002	mg/l	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Xylene (total)	0.005	mg/l	< 0.00014	0.116	0.0189	< 0.00014	0.0013	0.148	0.0862	0.414	0.001	< 0.00014
Total TIC, Volatile	NS	mg/l	0	0.561 J	0.0553 J	0	0	0.138 JN	0.166 JN	0.116 JN	0	0

Table 4. Summary of Waste Water Analytical Results, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID	NY TOGS Class		SUMP(031513)	WSA(031513)	WW-IN(031513)	WW-EFF(031513)	WW-EFF-PM(031513)	WW(032913) INFLUENT	WW(041813)-IN	WW(061213)-IN	WW(030613)	WW(032913) EFF
Sample Date	GA GW Standards		3/15/2013	3/15/2013	3/15/2013	3/15/2013	3/15/2013	3/29/2013	4/18/2013	6/12/2013	3/6/2013	3/29/2013
SVOCs												
1,1'-Biphenyl	0.005	mg/l	< 0.00036	< 0.00036	< 0.00034	< 0.00036	< 0.00035	< 0.00033	< 0.00035	NA	< 0.00036	< 0.00034
1,2-Dichlorobenzene	0.003	mg/l	< 0.00023	< 0.00023	< 0.00022	NA	NA	NA	NA	NA	< 0.00023	NA
1,2-DIPHENYLHYDRAZINE	NS	mg/l	< 0.0005	< 0.0005	< 0.00048	NA	NA	NA	NA	NA	< 0.0005	NA
1,3-Dichlorobenzene	0.003	mg/l	< 0.00018	< 0.00018	< 0.00017	NA	NA	NA	NA	NA	< 0.00018	NA
1,4-Dichlorobenzene	0.003	mg/l	< 0.0002	< 0.0002	< 0.00019	NA	NA	NA	NA	NA	< 0.0002	NA
2,4,5-Trichlorophenol	NS	mg/l	< 0.0021	< 0.0021	< 0.002	< 0.0021	< 0.0021	< 0.0019	< 0.0021	NA	< 0.0021	< 0.002
2,4,6-Trichlorophenol	NS	mg/l	< 0.0014	< 0.0014	< 0.0013	< 0.0014	< 0.0013	< 0.0013	< 0.0014	NA	< 0.0014	< 0.0013
2,4-Dichlorophenol	0.001	mg/l	< 0.0017	< 0.0017	< 0.0016	< 0.0017	< 0.0017	< 0.0016	< 0.0017	NA	< 0.0017	< 0.0016
2,4-Dimethylphenol	0.001	mg/l	< 0.0018	< 0.0018	< 0.0017	< 0.0018	< 0.0017	< 0.0016	< 0.0018	NA	< 0.0018	< 0.0017
2,4-Dinitrophenol	0.001	mg/l	< 0.00099	< 0.00099	< 0.00094	< 0.00099	< 0.00095	< 0.00089	< 0.00096	NA	< 0.00099	< 0.00094
2,4-Dinitrotoluene	0.005	mg/l	< 0.00096	< 0.00096	< 0.00091	< 0.00096	< 0.00091	< 0.00086	< 0.00093	NA	< 0.00096	< 0.00091
2,6-Dinitrotoluene	0.005	mg/l	< 0.00062	< 0.00062	< 0.00059	< 0.00062	< 0.00059	< 0.00056	< 0.0006	NA	< 0.00062	< 0.00059
2-Chloronaphthalene	NS	mg/l	< 0.0011	< 0.0011	< 0.001	< 0.0011	< 0.001	< 0.00098	< 0.0011	NA	< 0.0011	< 0.001
2-Chlorophenol	NS	mg/l	< 0.0011	< 0.0011	< 0.001	< 0.0011	< 0.001	< 0.00095	< 0.001	NA	< 0.0011	< 0.001
2-Methylnaphthalene	NS	mg/l	< 0.00045	< 0.00045	< 0.00043	< 0.00045	< 0.00043	0.0025	0.0017 J	NA	< 0.00045	< 0.00043
2-Methylphenol	NS	mg/l	< 0.0015	< 0.0015	< 0.0014	< 0.0015	< 0.0014	< 0.0014	< 0.0015	NA	< 0.0015	< 0.0014
2-Nitroaniline	0.005	mg/l	< 0.00074	< 0.00074	< 0.0007	< 0.00074	< 0.0007	< 0.00066	< 0.00072	NA	< 0.00074	< 0.0007
2-Nitrophenol	NS	mg/l	< 0.002	< 0.002	< 0.0019	< 0.002	< 0.0019	< 0.0018	< 0.002	NA	< 0.002	< 0.0019
3&4-Methylphenol	NS	mg/l	< 0.0014	< 0.0014	< 0.0013	< 0.0014	< 0.0014	< 0.0013	< 0.0014	NA	< 0.0014	< 0.0013
3,3'-Dichlorobenzidine	0.005	mg/l	< 0.0014	< 0.0014	< 0.0013	< 0.0014	< 0.0013	< 0.0012	< 0.0013	NA	< 0.0014	< 0.0013
3-Nitroaniline	0.005	mg/l	< 0.0014	< 0.0014	< 0.0013	< 0.0014	< 0.0013	< 0.0013	< 0.0014	NA	< 0.0014	< 0.0013
4,6-Dinitro-o-cresol	NS	mg/l	< 0.0008	< 0.0008	< 0.00076	< 0.0008	< 0.00077	< 0.00072	< 0.00078	NA	< 0.0008	< 0.00076
4-Bromophenyl phenyl ether	NS	mg/l	< 0.00033	< 0.00033	< 0.00031	< 0.00033	< 0.00032	< 0.0003	< 0.00032	NA	< 0.00033	< 0.00031
4-Chloro-3-methyl phenol	NS	mg/l	< 0.0013	< 0.0013	< 0.0012	< 0.0013	< 0.0013	< 0.0012	< 0.0013	NA	< 0.0013	< 0.0012
4-Chloroaniline	0.005	mg/l	< 0.00044	< 0.00044	< 0.00042	< 0.00044	< 0.00042	< 0.0004	< 0.00043	NA	< 0.00044	< 0.00042
4-Chlorophenyl phenyl ether	NS	mg/l	< 0.00048	< 0.00048	< 0.00045	< 0.00048	< 0.00046	< 0.00043	< 0.00047	NA	< 0.00048	< 0.00045
4-Nitroaniline	0.005	mg/l	< 0.0008	< 0.0008	< 0.00076	< 0.0008	< 0.00077	< 0.00072	< 0.00078	NA	< 0.0008	< 0.00076
4-Nitrophenol	NS	mg/l	< 0.00094	< 0.00094	< 0.00089	< 0.00094	< 0.0009	< 0.00084	< 0.00091	NA	< 0.00094	< 0.00089
Acenaphthene	NS	mg/l	< 0.00039	< 0.00039	< 0.00037	< 0.00039	< 0.00037	< 0.00035	< 0.00038	NA	< 0.00039	< 0.00037
Acenaphthylene	NS	mg/l	< 0.00042	< 0.00042	< 0.0004	< 0.00042	< 0.00041	< 0.00038	< 0.00041	NA	< 0.00042	< 0.0004
Acetophenone	NS	mg/l	< 0.00042	0.0114	< 0.00039	< 0.00042	< 0.0004	< 0.00037	0.0082	NA	0.0012 J	< 0.00039
Anthracene	NS	mg/l	< 0.00044	< 0.00044	< 0.00044	< 0.00044	< 0.00042	< 0.0004	< 0.00043	NA	< 0.00044	< 0.00042
Atrazine	0.0075	mg/l	< 0.00018	< 0.00018	< 0.00017	< 0.00018	< 0.00017	< 0.00016	< 0.00018	NA	< 0.00018	< 0.00017
Benzaldehyde	NS	mg/l	< 0.00029	< 0.00029	< 0.00028	< 0.00029	< 0.00028	< 0.00027	< 0.00029	NA	< 0.00029	< 0.00028
BENZIDINE	0.005	mg/l	< 0.00031	< 0.00031	< 0.00029	NA	NA	NA	NA	NA	< 0.00031	NA
Benzo(a)anthracene	NS	mg/l	< 0.0004	< 0.0004	< 0.00037	< 0.0004	< 0.00038	< 0.00036	< 0.00038	NA	< 0.0004	< 0.00037
Benzo(a)pyrene	NS	mg/l	< 0.00041	< 0.00041	< 0.00039	< 0.00041	< 0.00039	< 0.00037	< 0.0004	NA	< 0.00041	< 0.00039
Benzo(b)fluoranthene	NS	mg/l	< 0.00066	< 0.00066	< 0.00062	< 0.00066	< 0.00063	< 0.00059	< 0.00064	NA	< 0.00066	< 0.00062
Benzo(g,h,i)perylene	NS	mg/l	< 0.00047	< 0.00047	< 0.00044	< 0.00047	< 0.00045	< 0.00042	< 0.00046	NA	< 0.00047	< 0.00044
Benzo(k)fluoranthene	NS	mg/l	< 0.00047	< 0.00047	< 0.00044	< 0.00047	< 0.00045	< 0.00042	< 0.00046	NA	< 0.00047	< 0.00044
BENZYL ALCOHOL	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	< 0.00041	NA
bis(2-Chloroethoxy)methane	0.005	mg/l	< 0.00073	< 0.00073	< 0.00069	< 0.00073	< 0.0007	< 0.00065	< 0.00071	NA	< 0.00073	< 0.00069
bis(2-Chloroethyl)ether	0.001	mg/l	< 0.00059	< 0.00059	< 0.00056	< 0.00059	< 0.00056	< 0.00053	< 0.00057	NA	< 0.00059	< 0.00056
bis(2-Chloroisopropyl)ether	0.005	mg/l	< 0.00082	< 0.00082	< 0.00078	< 0.00082	< 0.00079	< 0.00074	< 0.0008	NA	< 0.00082	< 0.00078
bis(2-Ethylhexyl)phthalate	0.005	mg/l	< 0.00073	< 0.00073	< 0.0007	< 0.00073	0.0029	< 0.00066	0.0019 J	NA	< 0.00073	< 0.0007
Butyl benzyl phthalate	NS	mg/l	< 0.00066	< 0.00066	< 0.00062	< 0.00066	< 0.00063	< 0.00059	< 0.00064	NA	< 0.00066	< 0.00062
Caprolactam	NS	mg/l	< 0.00035	< 0.00035	< 0.00033	< 0.00035	< 0.00034	< 0.00032	< 0.00034	NA	< 0.00035	< 0.00033
Carbazole	NS	mg/l	< 0.0004	< 0.0004	< 0.00038	< 0.0004	< 0.00039	< 0.00036	< 0.00039	NA	< 0.0004	< 0.00038
Chrysene	NS	mg/l	< 0.00028	< 0.00028	< 0.00026	< 0.00028	< 0.00027	< 0.00025	< 0.00027	NA	< 0.00028	< 0.00026
Dibenzo(a,h)anthracene	NS	mg/l	< 0.0006	< 0.0006	< 0.00057	< 0.0006	< 0.00058	< 0.00054	< 0.00059	NA	< 0.0006	< 0.00057
Dibenzofuran	NS	mg/l	< 0.00038	< 0.00038	< 0.00036	< 0.00038	< 0.00037	< 0.00034	< 0.00037	NA	< 0.00038	< 0.00036
Diethyl phthalate	NS	mg/l	< 0.00043	< 0.00043	< 0.00041	< 0.00043	< 0.00041	< 0.00039	< 0.00042	NA	< 0.00043	< 0.00041
Dimethyl phthalate	NS	mg/l	0.0022	< 0.00036	0.0011 J	< 0.00036	< 0.00035	< 0.00033	< 0.00035	NA	< 0.00036	< 0.00035
Di-n-butyl phthalate	0.05	mg/l	< 0.00066	< 0.00066	< 0.00062	< 0.00066	< 0.00063	< 0.00059	< 0.00064	NA	< 0.00066	< 0.00062
Di-n-octyl phthalate	NS	mg/l	< 0.00063	< 0.00063	< 0.0006	< 0.00063	< 0.00061	< 0.00057	< 0.00062	NA	< 0.00063	< 0.0006
Fluoranthene	NS	mg/l	< 0.00028	< 0.00028	< 0.00026	< 0.00028	< 0.00026	< 0.00025	< 0.00027	NA	< 0.00028	< 0.00026
Fluorene	NS	mg/l	< 0.0005	< 0.0005	< 0.00047	< 0.0005	< 0.00048	< 0.00045	< 0.00049	NA	< 0.0005	< 0.00047
Hexachlorobenzene	0.00004	mg/l	< 0.0006	< 0.0006	< 0.00057	< 0.0006	< 0.00057	< 0.00054	< 0.00058	NA	< 0.0006	< 0.00057
Hexachlorobutadiene	0.0005	mg/l	< 0.00019	< 0.00019	< 0.00018	< 0.00019	< 0.00019	< 0.00018	< 0.00019	NA	< 0.00019	< 0.00018
Hexachlorocyclopentadiene	0.005	mg/l	< 0.00045	< 0.00045	< 0.00043	< 0.00045	< 0.00043	< 0.00041	< 0.00044	NA	< 0.00045	< 0.00043
Hexachloroethane	0.005	mg/l	< 0.00031	< 0.00031	< 0.0003	< 0.00031	< 0.0003	< 0.00028	< 0.00031	NA	< 0.00031	< 0.0003

Table 4. Summary of Waste Water Analytical Results, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID	NY TOGS Class		SUMP(031513)	WSA(031513)	WW-IN(031513)	WW-EFF(031513)	WW-EFF-PM(031513)	WW(032913) INFLUENT	WW(041813)-IN	WW(061213)-IN	WW(030613)	WW(032913) EFF
Sample Date	GA GW Standards		3/15/2013	3/15/2013	3/15/2013	3/15/2013	3/15/2013	3/29/2013	4/18/2013	6/12/2013	3/6/2013	3/29/2013
SVOCs (cont.)												
Indeno(1,2,3-cd)pyrene	NS	mg/l	< 0.00034	< 0.00034	< 0.00032	< 0.00034	< 0.00032	< 0.0003	< 0.00033	NA	< 0.00034	< 0.00032
Isophorone	NS	mg/l	< 0.00065	< 0.00065	< 0.00062	< 0.00065	< 0.00063	< 0.00059	< 0.00064	NA	< 0.00065	< 0.00062
METHANAMINE, N-METHYL-N-NITROSO	NS	mg/l	< 0.00051	< 0.00051	< 0.00048	NA	NA	NA	NA	NA	< 0.00051	NA
Naphthalene	NS	mg/l	< 0.00036	< 0.00036	< 0.00034	< 0.00036	< 0.00034	0.0057	0.0031	NA	< 0.00036	< 0.00034
Nitrobenzene	0.0004	mg/l	< 0.00047	< 0.00047	< 0.00044	< 0.00047	< 0.00045	< 0.00042	< 0.00045	NA	< 0.00047	< 0.00044
N-Nitroso-di-n-propylamine	NS	mg/l	< 0.00052	< 0.00052	< 0.00049	< 0.00052	< 0.0005	< 0.00047	< 0.00051	NA	< 0.00052	< 0.00049
N-Nitrosodiphenylamine	NS	mg/l	< 0.00057	< 0.00057	< 0.00054	< 0.00057	< 0.00055	< 0.00052	< 0.00056	NA	< 0.00057	< 0.00054
Pentachlorophenol	0.001	mg/l	< 0.0021	< 0.0021	< 0.002	< 0.0021	< 0.002	< 0.0019	< 0.0021	NA	< 0.0021	< 0.002
Phenanthrene	NS	mg/l	< 0.0004	< 0.0004	< 0.00038	< 0.0004	< 0.00039	< 0.00036	< 0.00039	NA	< 0.0004	< 0.00038
Phenol	0.001	mg/l	< 0.00055	< 0.00055	< 0.00052	< 0.00055	< 0.00053	< 0.0005	< 0.00054	NA	< 0.00055	< 0.00052
Pyrene	NS	mg/l	< 0.00037	< 0.00037	< 0.00035	< 0.00037	< 0.00036	< 0.00034	< 0.00036	NA	< 0.00037	< 0.00035
Total TIC, Semi-Volatile	NS	mg/l	0.325 J	0.545 J	0.0188 J	0.591 J	0.532 J	0.348 JN	0.608 JN	NA	0.0046 J	0
Total TIC, Semi-Volatile	NS	mg/l	NA	NA	NA	0.221 J	NA	NA	NA	NA	NA	NA
PCBs												
Aroclor 1016	0.00009	mg/l	< 0.000056	< 0.000054	< 0.000053	< 0.000054	< 0.000051	< 0.000052	< 0.00005	NA	< 0.000049	< 0.000052
Aroclor 1221	0.00009	mg/l	< 0.00028	< 0.00027	< 0.00027	< 0.00027	< 0.00026	< 0.00026	< 0.00025	NA	< 0.00025	< 0.00026
Aroclor 1232	0.00009	mg/l	< 0.00023	< 0.00022	< 0.00022	< 0.00022	< 0.00021	< 0.00022	< 0.00021	NA	< 0.0002	< 0.00022
Aroclor 1242	0.00009	mg/l	< 0.000098	< 0.000094	< 0.000093	< 0.000094	< 0.000089	< 0.000091	< 0.000088	NA	< 0.000086	< 0.000091
Aroclor 1248	0.00009	mg/l	< 0.000091	< 0.000088	< 0.000087	< 0.000088	< 0.000083	< 0.000085	< 0.000082	NA	< 0.000081	< 0.000085
Aroclor 1254	0.00009	mg/l	< 0.000065	< 0.000063	< 0.000062	< 0.000063	< 0.000059	< 0.000061	< 0.000059	NA	< 0.000057	< 0.000061
Aroclor 1260	0.00009	mg/l	< 0.00007	< 0.000067	< 0.000066	< 0.000067	< 0.000064	< 0.000065	< 0.000063	NA	< 0.000062	< 0.000065
Total Metals												
Arsenic	0.025	mg/l	< 0.00097	0.006	0.0308	0.0338	0.087	0.0255	0.01	0.0149	0.0248	0.0074
Barium	1	mg/l	0.0214 B	0.154 B	0.45	0.42	6.1	1.4	0.776	3.72	0.35 B	0.0401 B
Cadmium	0.005	mg/l	< 0.00024	0.0003 B	0.001 B	0.001 B	0.0055 B	0.0007 B	0.0005 B	0.0017 B	0.0016 B	< 0.00024
Chromium	0.05	mg/l	0.0022 B	0.0113	0.0172 B	0.0156 B	0.261	0.0563	0.025	0.075	0.0178 B	< 0.00091
Copper	0.2	mg/l	0.0036 B	0.0389	0.142	0.129	0.342	0.101	0.0552	0.119	0.114	0.0023 B
Iron	0.3	mg/l	1.72	7.03	53.6	49	170	40.3	22.7	49.8	41.6	0.0377 B
Lead	0.025	mg/l	0.0043	0.0415	0.111	0.105	2.19	0.54	0.22	1.06	0.175	0.0043
Manganese	0.3	mg/l	0.0643	0.165	0.696	0.637	3.35	0.875	0.76	2.41	0.544	0.0264
Mercury	0.0007	mg/l	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.00038	< 0.00019	0.00011 B	0.00032 B	< 0.00019	< 0.000095
Nickel	0.1	mg/l	0.0025 B	0.0086 B	0.0242	0.024	0.165	0.0394	0.0186	0.0504	0.0234	< 0.00094
Selenium	0.01	mg/l	< 0.0024	< 0.0024	< 0.0049	< 0.0049	< 0.012	< 0.0024	< 0.0024	< 0.0024	< 0.0049	< 0.0024
Silver	0.05	mg/l	< 0.00085	< 0.00085	0.0146 B	0.0148 B	0.03 B	0.0023 B	< 0.00085	< 0.0015	0.003 B	< 0.00085
Zinc	NS	mg/l	0.113	0.0293	0.153	0.139	0.943	0.232	0.148	0.597	0.135	< 0.0028
Dissolved Metals												
Arsenic	0.025	mg/l	< 0.00097	0.0062	0.0258	0.0285	0.0256	0.0025 B	0.003	NA	NA	0.0067
Barium	1	mg/l	0.0147 B	0.067 B	0.0859 B	0.083 B	0.182 B	0.0523 B	0.0872 B	NA	NA	0.0371 B
Cadmium	0.005	mg/l	< 0.00024	< 0.00024	< 0.00024	< 0.00024	< 0.00024	< 0.00024	< 0.00024	NA	NA	< 0.00024
Chromium	0.05	mg/l	< 0.00091	0.0062 B	0.002 B	0.0015 B	0.0051 B	< 0.00091	< 0.00091	NA	NA	< 0.00091
Copper	0.2	mg/l	< 0.0013	0.0152	0.0059 B	0.0062 B	0.0091 B	0.0038 B	0.0033 B	NA	NA	< 0.0013
Iron	0.3	mg/l	< 0.024	0.206	0.753	1	2.25	< 0.024	0.0643 B	NA	NA	< 0.024
Lead	0.025	mg/l	< 0.0017	0.0076	< 0.0017	< 0.0017	0.0188	0.0038	0.0025 B	NA	NA	0.0041
Manganese	0.3	mg/l	0.0142 B	0.0776	0.0283	0.0266	0.0394	0.131	0.385	NA	NA	0.0244
Mercury	0.0007	mg/l	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000089	NA	NA	< 0.000095
Nickel	0.1	mg/l	0.001 B	0.0048 B	0.0019 B	0.0019 B	0.0032 B	0.0036 B	0.0036 B	NA	NA	0.001 B
Selenium	0.01	mg/l	< 0.0024	< 0.0024	0.0024 B	< 0.0024	0.0036 B	< 0.0024	< 0.0024	NA	NA	< 0.0024
Silver	0.05	mg/l	< 0.00085	< 0.00085	0.0128	0.0132	0.0215	< 0.00085	< 0.00085	NA	NA	< 0.00085
Zinc	NS	mg/l	0.0927	0.0043 B	0.0091 B	0.0094 B	0.0218	0.0123 B	< 0.02 UB	NA	NA	0.0049 B
Other												
CHROMIUM (HEXAVALENT COMPOUNDS)	0.05	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	NA	0.059	< 0.01
Solids, Total Suspended	NS	mg/l	18	21	360	289	1470	617	502	NA	NA	< 4

Notes:

mg/l Milligrams per liter

< Not Detected

NA Not Analyzed

UB Results considered non-detect at the listed value due to blank contamination.

B Result is between the method detection limit and the reporting limit.

J or JN Estimated Result

R Rejected Result

Bold Detection

Bold Result exceeds NY TOGS Class GA GW Standards

Table 4. Summary of Waste Water Analytical Results, Operable Unit 1, Ramapo Paint

Sample ID Sample Date	NY TOGS Class GA GW Standards		DUP (032913) 3/29/2013	WW(041813)-EFF 4/18/2013	WW(051513)-EFF 5/15/2013	WW(060313)-EFF 6/3/2013	WW(060713)-EFF 6/7/2013	WW(061213)-EFF 6/12/2013	WW(061313)-EFF 6/13/2013	WW(061413)-EFF 6/14/2013	WW(061813)-EFF 6/18/2013	WW(062413)-EFF 6/24/2013	WW(071113)-EFF 7/11/2013
VOCs-8011													
1,2-Dibromo-3-chloropropane	0.00004	mg/l	< 0.000014	< 0.000014	< 0.000014	< 0.000014	< 0.000014	< 0.000014	< 0.000014	< 0.000014	< 0.000014	< 0.000014	< 0.000014
1,2-Dibromoethane	0.0000006	mg/l	< 0.000011	< 0.000011	< 0.000011	< 0.000011	< 0.000011	< 0.000011	< 0.000011	< 0.000011	< 0.000011	< 0.000011	< 0.000011
VOCs													
1,1,1-Trichloroethane	0.005	mg/l	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
1,1,2,2-Tetrachloroethane	0.005	mg/l	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
1,1,2-Trichloroethane	0.001	mg/l	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025 J	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025
1,1-Dichloroethane	0.005	mg/l	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
1,1-Dichloroethene	0.005	mg/l	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028
1,2,4-Trichlorobenzene	0.005	mg/l	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015 J	< 0.00015	< 0.00015 J	< 0.00015	< 0.00015	< 0.00015	< 0.00015
1,2-Dibromo-3-chloropropane	0.00004	mg/l	< 0.00081	< 0.00081	< 0.00081	< 0.00081 J	< 0.00081	< 0.00081	< 0.00081	< 0.00081	< 0.00081	< 0.00081	< 0.00081
1,2-Dibromoethane	0.0000006	mg/l	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023
1,2-Dichlorobenzene	0.003	mg/l	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023
1,2-Dichloroethane	0.0006	mg/l	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026
1,2-Dichloropropane	0.001	mg/l	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
1,3-Dichlorobenzene	0.003	mg/l	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
1,4-Dichlorobenzene	0.003	mg/l	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
2-Butanone (MEK)	NS	mg/l	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
2-Hexanone	NS	mg/l	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
4-Methyl-2-pentanone(MIBK)	NS	mg/l	< 0.00045	< 0.00045	< 0.00045	< 0.00045	< 0.00045	< 0.00045	< 0.00045	< 0.00045	< 0.00045	< 0.00045	< 0.00045
Acetone	NS	mg/l	< 0.0036	< 0.0036	< 0.0036	< 0.0036 UB	0.0075	0.0189	0.025	0.0437	0.0988	0.124 D	0.183
Benzene	0.001	mg/l	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022
Bromodichloromethane	NS	mg/l	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095
Bromoform	NS	mg/l	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016 J	< 0.00016	< 0.00016	< 0.00016	< 0.00016
Bromomethane	0.005	mg/l	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025
Carbon disulfide	0.06	mg/l	< 0.00017	< 0.00017	< 0.00017	< 0.00017	< 0.00017	< 0.00017	< 0.00017	< 0.00017	< 0.00017	< 0.00017	< 0.00017
Carbon tetrachloride	0.005	mg/l	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
Chlorobenzene	0.005	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Chloroethane	0.005	mg/l	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025
Chloroform	0.007	mg/l	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
Chloromethane	0.005	mg/l	< 0.00027	< 0.00027	< 0.00027	< 0.00027 J	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027
cis-1,2-Dichloroethene	0.005	mg/l	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022
cis-1,3-Dichloropropene	NS	mg/l	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012 J	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012
Cyclohexane	NS	mg/l	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
Dibromochloromethane	NS	mg/l	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
Dichlorodifluoromethane	0.005	mg/l	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021 J	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
Ethylbenzene	0.005	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Freon 113	0.005	mg/l	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055
Isopropylbenzene	0.005	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Methyl Acetate	NS	mg/l	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
Methyl Tert Butyl Ether	0.01	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Methylcyclohexane	NS	mg/l	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
Methylene chloride	0.005	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	0.00043 J	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Styrene	0.005	mg/l	< 0.00014	< 0.00014	< 0.00014	< 0.00014 J	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
Tetrachloroethene	0.005	mg/l	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
Toluene	0.005	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
trans-1,2-Dichloroethene	0.005	mg/l	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
trans-1,3-Dichloropropene	NS	mg/l	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014 J	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
Trichloroethene	0.005	mg/l	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
Trichlorofluoromethane	0.005	mg/l	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Vinyl chloride	0.002	mg/l	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Xylene (total)	0.005	mg/l	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
Total TIC, Volatile	NS	mg/l	0	0	0	0	0	0.0047 JN	0.0083 JN	0	0.012 JN	0.0038 JN	0.0167 JN

Table 4. Summary of Waste Water Analytical Results, Operable Unit 1, Ramapo Paint

Sample ID	NY TOGS Class		DUP (032913)	WW(041813)-EFF	WW(051513)-EFF	WW(060313)-EFF	WW(060713)-EFF	WW(061213)-EFF	WW(061313)-EFF	WW(061413)-EFF	WW(061813)-EFF	WW(062413)-EFF	WW(071113)-EFF
Sample Date	GA GW Standards		3/29/2013	4/18/2013	5/15/2013	6/3/2013	6/7/2013	6/12/2013	6/13/2013	6/14/2013	6/18/2013	6/24/2013	7/11/2013
SVOCs													
1,1'-Biphenyl	0.005	mg/l	< 0.00036	< 0.00035	< 0.00035	< 0.00037	< 0.00033	< 0.00036	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	0.003	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-DIPHENYLHYDRAZINE	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	0.003	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	0.003	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NS	mg/l	< 0.0021	< 0.0021	< 0.0021	< 0.0022	< 0.0019	< 0.0021	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	NS	mg/l	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0013	< 0.0014	NA	NA	NA	NA	NA
2,4-Dichlorophenol	0.001	mg/l	< 0.0017	< 0.0017	< 0.0017	< 0.0018	< 0.0016	< 0.0017	NA	NA	NA	NA	NA
2,4-Dimethylphenol	0.001	mg/l	< 0.0018	< 0.0018	< 0.0018	< 0.0018 J	< 0.0016	< 0.0018	NA	NA	NA	NA	NA
2,4-Dinitrophenol	0.001	mg/l	< 0.00099	< 0.00096	< 0.00096	< 0.001 J	< 0.00089 J	< 0.00097 J	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	0.005	mg/l	< 0.00096	< 0.00093	< 0.00092	< 0.00097 J	< 0.00086	< 0.00093 J	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	0.005	mg/l	< 0.00062	< 0.0006	< 0.0006	< 0.00063 J	< 0.00056	< 0.00061 J	NA	NA	NA	NA	NA
2-Chloronaphthalene	NS	mg/l	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.00098	< 0.0011	NA	NA	NA	NA	NA
2-Chlorophenol	NS	mg/l	< 0.0011	< 0.001	< 0.001	< 0.0011	< 0.00095	< 0.001	NA	NA	NA	NA	NA
2-Methylnaphthalene	NS	mg/l	< 0.00045	< 0.00044	< 0.00044	< 0.00046	< 0.00041	< 0.00044	NA	NA	NA	NA	NA
2-Methylphenol	NS	mg/l	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	NA	NA	NA	NA	NA
2-Nitroaniline	0.005	mg/l	< 0.00074	< 0.00072	< 0.00071	< 0.00074 J	< 0.00066	< 0.00072	NA	NA	NA	NA	NA
2-Nitrophenol	NS	mg/l	< 0.002	< 0.002	< 0.0019	< 0.002	< 0.0018	< 0.002	NA	NA	NA	NA	NA
3&4-Methylphenol	NS	mg/l	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0013	< 0.0014	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	0.005	mg/l	< 0.0014	< 0.0013	< 0.0013	< 0.0014	< 0.0012	< 0.0013	NA	NA	NA	NA	NA
3-Nitroaniline	0.005	mg/l	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0013	< 0.0014	NA	NA	NA	NA	NA
4,6-Dinitro-o-cresol	NS	mg/l	< 0.0008	< 0.00078	< 0.00078	< 0.00081 J	< 0.00072 J	< 0.00078 J	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NS	mg/l	< 0.00033	< 0.00032	< 0.00032	< 0.00034	< 0.0003	< 0.00033	NA	NA	NA	NA	NA
4-Chloro-3-methyl phenol	NS	mg/l	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0012	< 0.0013	NA	NA	NA	NA	NA
4-Chloroaniline	0.005	mg/l	< 0.00044	< 0.00043	< 0.00043	< 0.00045	< 0.0004	< 0.00043	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NS	mg/l	< 0.00048	< 0.00047	< 0.00046	< 0.00048	< 0.00043	< 0.00047	NA	NA	NA	NA	NA
4-Nitroaniline	0.005	mg/l	< 0.0008	< 0.00078	< 0.00078	< 0.00081	< 0.00072	< 0.00078	NA	NA	NA	NA	NA
4-Nitrophenol	NS	mg/l	< 0.00094	< 0.00091	< 0.00091	< 0.00095	< 0.00084 J	< 0.00092	NA	NA	NA	NA	NA
Acenaphthene	NS	mg/l	< 0.00039	< 0.00038	< 0.00038	< 0.00039	< 0.00035	< 0.00038	NA	NA	NA	NA	NA
Acenaphthylene	NS	mg/l	< 0.00042	< 0.00041	< 0.00041	< 0.00043	< 0.00038	< 0.00041	NA	NA	NA	NA	NA
Acetophenone	NS	mg/l	< 0.00042	< 0.0004	< 0.0004	< 0.00042	< 0.00037	< 0.00041	NA	NA	NA	NA	NA
Anthracene	NS	mg/l	< 0.00044	< 0.00043	< 0.00043	< 0.00045	< 0.0004	< 0.00043	NA	NA	NA	NA	NA
Atrazine	0.0075	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00016	< 0.00018 J	NA	NA	NA	NA	NA
Benzaldehyde	NS	mg/l	< 0.00029	< 0.00029	< 0.00028	< 0.0003	< 0.00027	< 0.00029	NA	NA	NA	NA	NA
BENZIDINE	0.005	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	NS	mg/l	< 0.0004	< 0.00038	< 0.00038	< 0.0004	< 0.00036	< 0.00039	NA	NA	NA	NA	NA
Benzo(a)pyrene	NS	mg/l	< 0.00041	< 0.0004	< 0.00039	< 0.00041	< 0.00037	< 0.0004	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NS	mg/l	< 0.00066	< 0.00064	< 0.00064	< 0.00066	< 0.00059	< 0.00064	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	NS	mg/l	< 0.00047	< 0.00046	< 0.00045	< 0.00047	< 0.00042	< 0.00046	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	NS	mg/l	< 0.00047	< 0.00046	< 0.00045	< 0.00047	< 0.00042	< 0.00046	NA	NA	NA	NA	NA
BENZYL ALCOHOL	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	0.005	mg/l	< 0.00073	< 0.00071	< 0.0007	< 0.00073	< 0.00065	< 0.00071	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	0.001	mg/l	< 0.00059	< 0.00057	< 0.00057	< 0.0006	< 0.00053	< 0.00058	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	0.005	mg/l	< 0.00082	< 0.0008	< 0.00079	< 0.00083 J	< 0.00074	< 0.0008	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	0.005	mg/l	< 0.00073	< 0.00071	< 0.00071	< 0.00074 J	0.0028 J	< 0.00072	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NS	mg/l	< 0.00066	< 0.00064	< 0.00064	< 0.00067	< 0.00059	< 0.00064	NA	NA	NA	NA	NA
Caprolactam	NS	mg/l	< 0.00035	< 0.00034	< 0.00034	< 0.00035	< 0.00032	< 0.00034	NA	NA	NA	NA	NA
Carbazole	NS	mg/l	< 0.0004	< 0.00039	< 0.00039	< 0.00041	< 0.00036	< 0.0004	NA	NA	NA	NA	NA
Chrysene	NS	mg/l	< 0.00028	< 0.00027	< 0.00027	< 0.00028	< 0.00025	< 0.00027	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	NS	mg/l	< 0.0006	< 0.00059	< 0.00058	< 0.00061	< 0.00054	< 0.00059	NA	NA	NA	NA	NA
Dibenzofuran	NS	mg/l	< 0.00038	< 0.00037	< 0.00037	< 0.00039	< 0.00034	< 0.00037	NA	NA	NA	NA	NA
Diethyl phthalate	NS	mg/l	< 0.00043	< 0.00042	< 0.00042	< 0.00044	< 0.00039	< 0.00042 J	NA	NA	NA	NA	NA
Dimethyl phthalate	NS	mg/l	< 0.00036	< 0.00035	< 0.00035	< 0.00037	< 0.00033	< 0.00036	NA	NA	NA	NA	NA
Di-n-butyl phthalate	0.05	mg/l	< 0.00066	< 0.00064	< 0.00064	< 0.00067	< 0.00059	< 0.00064	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NS	mg/l	< 0.00063	< 0.00062	< 0.00061	< 0.00064 J	< 0.00057 J	< 0.00062	NA	NA	NA	NA	NA
Fluoranthene	NS	mg/l	< 0.00028	< 0.00027	< 0.00027	< 0.00028	< 0.00025	< 0.00027	NA	NA	NA	NA	NA
Fluorene	NS	mg/l	< 0.0005	< 0.00049	< 0.00048	< 0.0005	< 0.00045	< 0.00049	NA	NA	NA	NA	NA
Hexachlorobenzene	0.00004	mg/l	< 0.0006	< 0.00058	< 0.00058	< 0.0006	< 0.00054	< 0.00058	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.0005	mg/l	< 0.00019	< 0.00019	< 0.00019	< 0.0002	< 0.00018	< 0.00019	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	0.005	mg/l	< 0.00045	< 0.00044	< 0.00044	< 0.00046	< 0.00041	< 0.00044	NA	NA	NA	NA	NA
Hexachloroethane	0.005	mg/l	< 0.00031	< 0.00031	< 0.0003	< 0.00032	< 0.00028	< 0.00031	NA	NA	NA	NA	NA

Table 4. Summary of Waste Water Analytical Results, Operable Unit 1, Ramapo Paint

Sample ID	NY TOGS Class		DUP (032913)	WW(041813)-EFF	WW(051513)-EFF	WW(060313)-EFF	WW(060713)-EFF	WW(061213)-EFF	WW(061313)-EFF	WW(061413)-EFF	WW(061813)-EFF	WW(062413)-EFF	WW(071113)-EFF
Sample Date	GA GW Standards		3/29/2013	4/18/2013	5/15/2013	6/3/2013	6/7/2013	6/12/2013	6/13/2013	6/14/2013	6/18/2013	6/24/2013	7/11/2013
SVOCs (cont.)													
Indeno(1,2,3-cd)pyrene	NS	mg/l	< 0.00034	< 0.00033	< 0.00033	< 0.00034	< 0.0003	< 0.00033	NA	NA	NA	NA	NA
Isophorone	NS	mg/l	< 0.00065	< 0.00064	< 0.00063	< 0.00066	< 0.00059 J	< 0.00064 J	NA	NA	NA	NA	NA
METHANAMINE, N-METHYL-N-NITROSO	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NS	mg/l	< 0.00036	< 0.00035	< 0.00035	< 0.00036	< 0.00032	< 0.00035	NA	NA	NA	NA	NA
Nitrobenzene	0.0004	mg/l	< 0.00047	< 0.00045	< 0.00045	< 0.00047	< 0.00042 J	< 0.00046	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	NS	mg/l	< 0.00052	< 0.00051	< 0.0005	< 0.00053	< 0.00047	< 0.00051	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NS	mg/l	< 0.00057	< 0.00056	< 0.00055	< 0.00058	< 0.00052	< 0.00056 UJ	NA	NA	NA	NA	NA
Pentachlorophenol	0.001	mg/l	< 0.0021	< 0.0021	< 0.002	< 0.0021	< 0.0019	< 0.0021	NA	NA	NA	NA	NA
Phenanthrene	NS	mg/l	< 0.0004	< 0.00039	< 0.00039	< 0.00041	< 0.00036	< 0.00039	NA	NA	NA	NA	NA
Phenol	0.001	mg/l	< 0.00055	< 0.00054	< 0.00053	< 0.00056	< 0.0005	< 0.00054	NA	NA	NA	NA	NA
Pyrene	NS	mg/l	< 0.00037	< 0.00036	< 0.00036	< 0.00038	< 0.00034	< 0.00036	NA	NA	NA	NA	NA
Total TIC, Semi-Volatile	NS	mg/l	0	0.0497 JN	0.372 JN	0.0949 JN	0.32 JN	R	NA	NA	NA	NA	NA
Total TIC, Semi-Volatile	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs													
Aroclor 1016	0.00009	mg/l	< 0.000047	< 0.000049	< 0.00005	< 0.000049	< 0.000047	< 0.00005	NA	NA	NA	NA	NA
Aroclor 1221	0.00009	mg/l	< 0.00024	< 0.00025	< 0.00025	< 0.00025	< 0.00024	< 0.00025	NA	NA	NA	NA	NA
Aroclor 1232	0.00009	mg/l	< 0.00019	< 0.0002	< 0.00021	< 0.0002	< 0.00019	< 0.00021	NA	NA	NA	NA	NA
Aroclor 1242	0.00009	mg/l	< 0.000082	< 0.000086	< 0.000088	< 0.000086 J	< 0.000082	< 0.000088	NA	NA	NA	NA	NA
Aroclor 1248	0.00009	mg/l	< 0.000077	< 0.000081	< 0.000082	< 0.000081 J	< 0.000077	< 0.000082	NA	NA	NA	NA	NA
Aroclor 1254	0.00009	mg/l	< 0.000055	< 0.000057	< 0.000059	< 0.000057 J	< 0.000055	< 0.000059	NA	NA	NA	NA	NA
Aroclor 1260	0.00009	mg/l	< 0.000059	< 0.000062	< 0.000063	< 0.000062 J	< 0.000059	< 0.000063	NA	NA	NA	NA	NA
Total Metals													
Arsenic	0.025	mg/l	0.0067	0.0051	0.0086	0.007	< 0.0015	0.0031	0.0036	< 0.0035 UB	< 0.003 UB	0.0017 B	0.0027 B
Barium	1	mg/l	0.0401 B	0.0743 B	0.124 B	0.254	0.422	0.559	0.555	0.621	0.564	0.538	0.417
Cadmium	0.005	mg/l	< 0.00024	< 0.00024	< 0.00024	0.0004 J	< 0.00024	< 0.00024	< 0.00024	< 0.00024	0.0004 B	< 0.00024	< 0.00024
Chromium	0.05	mg/l	< 0.00091	0.0014 B	< 0.00091	< 0.00092 J	< 0.00092	0.0016 B	< 0.00092	< 0.00092	< 0.00092	0.0017 B	< 0.00092
Copper	0.2	mg/l	0.0023 B	< 0.0013	0.0095 B	< 0.01 UB	0.0011 B	0.0012 B	0.0012 B	< 0.01 UB	< 0.01 UB	0.001 B	< 0.001
Iron	0.3	mg/l	0.0602 B	0.0312 B	0.135	2.43	2.48	1.77	1.89	1.36	1.2	1.5	2.06
Lead	0.025	mg/l	0.0053	0.0027 B	< 0.0017	< 0.0024	< 0.0024	< 0.0024	0.0041	< 0.0024	< 0.0024	< 0.0024	0.0034
Manganese	0.3	mg/l	0.027	0.0797	0.412	0.952	0.869	1.08	1.23	1.51	1.82	2.17	1.83
Mercury	0.0007	mg/l	< 0.000095	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089
Nickel	0.1	mg/l	< 0.00094	< 0.00094	0.0203	0.0414	0.02	0.0062 B	0.0059 B	< 0.01 UB	< 0.01 UB	0.0059 B	0.025
Selenium	0.01	mg/l	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0024	0.0053 J	0.0093 B	0.0064 B	< 0.0024	< 0.0024
Silver	0.05	mg/l	< 0.00085	< 0.00085	< 0.00085	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
Zinc	NS	mg/l	< 0.0028	< 0.0028	0.0039 B	0.0091 B	< 0.0044	< 0.0044	< 0.0044	< 0.0044	< 0.0044	0.0085 B	< 0.0044
Dissolved Metals													
Arsenic	0.025	mg/l	0.0071	0.004	0.0088	0.0064	NA	NA	NA	NA	NA	NA	NA
Barium	1	mg/l	0.0385 B	0.0717 B	0.12 B	0.226	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.005	mg/l	< 0.00024	< 0.00024	< 0.00024	0.0003 J	NA	NA	NA	NA	NA	NA	NA
Chromium	0.05	mg/l	< 0.00091	< 0.00091	< 0.00091	< 0.00092 J	NA	NA	NA	NA	NA	NA	NA
Copper	0.2	mg/l	< 0.0013	< 0.0013	0.0092 B	0.0011 B	NA	NA	NA	NA	NA	NA	NA
Iron	0.3	mg/l	< 0.024	< 0.024	< 0.024	1.09	NA	NA	NA	NA	NA	NA	NA
Lead	0.025	mg/l	0.005	< 0.0017	< 0.0017	< 0.0024	NA	NA	NA	NA	NA	NA	NA
Manganese	0.3	mg/l	0.0251	0.0768	0.394	0.923	NA	NA	NA	NA	NA	NA	NA
Mercury	0.0007	mg/l	< 0.000095	< 0.000089	< 0.000089	< 0.000089	NA	NA	NA	NA	NA	NA	NA
Nickel	0.1	mg/l	0.0116	< 0.00094	0.0192	0.0393	NA	NA	NA	NA	NA	NA	NA
Selenium	0.01	mg/l	< 0.0024	< 0.0024	< 0.0024	< 0.0024	NA	NA	NA	NA	NA	NA	NA
Silver	0.05	mg/l	< 0.00085	< 0.00085	< 0.00085	< 0.0015	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	mg/l	0.0166 B	< 0.02 UB	0.0055 B	0.0058 B	NA	NA	NA	NA	NA	NA	NA
Other													
CHROMIUM (HEXAVALENT COMPOUNDS)	0.05	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	R	< 0.01	NA	NA	NA	NA	NA
Solids, Total Suspended	NS	mg/l	< 4	4	< 4	4	< 4	< 4	NA	NA	NA	NA	NA

Notes:

mg/l Milligrams per liter

< Not Detected

NA Not Analyzed

UB Results considered non-detect at the listed value due to blank contamination.

B Result is between the method detection limit and the reporting limit.

J or JN Estimated Result

R Rejected Result

Bold Detection

Bold Result exceeds NY TOGS Class GA GW Standards

Table 4. Summary of Waste Water Analytical Results, Operable Unit 1, Ramapo Paint

Sample ID Sample Date	NY TOGS Class GA GW Standards		WW(080613)-EFF 8/6/2013	DUP(080613)-WW 8/6/2013	WW(081913) 8/19/2013	WW-120513 12/5/2013	DUP-120513 12/5/2013
VOCs-8011							
1,2-Dibromo-3-chloropropane	0.00004	mg/l	< 0.000014	< 0.000014	< 0.000014	< 0.000014	< 0.000014
1,2-Dibromoethane	0.0000006	mg/l	< 0.000011	< 0.000011	< 0.000011	< 0.000011	< 0.000011
VOCs							
1,1,1-Trichloroethane	0.005	mg/l	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
1,1,2,2-Tetrachloroethane	0.005	mg/l	< 0.0002	< 0.0002	< 0.0002 J	< 0.0002	< 0.0002
1,1,2-Trichloroethane	0.001	mg/l	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025
1,1-Dichloroethane	0.005	mg/l	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
1,1-Dichloroethene	0.005	mg/l	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028
1,2,4-Trichlorobenzene	0.005	mg/l	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
1,2-Dibromo-3-chloropropane	0.00004	mg/l	< 0.00081	< 0.00081	< 0.00081	< 0.00081	< 0.00081
1,2-Dibromoethane	0.0000006	mg/l	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023
1,2-Dichlorobenzene	0.003	mg/l	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023
1,2-Dichloroethane	0.0006	mg/l	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026
1,2-Dichloropropane	0.001	mg/l	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
1,3-Dichlorobenzene	0.003	mg/l	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
1,4-Dichlorobenzene	0.003	mg/l	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
2-Butanone (MEK)	NS	mg/l	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
2-Hexanone	NS	mg/l	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
4-Methyl-2-pentanone(MIBK)	NS	mg/l	< 0.00045	< 0.00045	< 0.00045	< 0.00045	< 0.00045
Acetone	NS	mg/l	0.0925	0.0887	0.0061	< 0.0036	< 0.0036
Benzene	0.001	mg/l	< 0.00022	< 0.00022	< 0.00022	0.00029 J	0.00027 J
Bromodichloromethane	NS	mg/l	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095
Bromoform	NS	mg/l	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016
Bromomethane	0.005	mg/l	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025
Carbon disulfide	0.06	mg/l	< 0.00017	< 0.00017	< 0.00017	< 0.00017	< 0.00017
Carbon tetrachloride	0.005	mg/l	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
Chlorobenzene	0.005	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Chloroethane	0.005	mg/l	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025
Chloroform	0.007	mg/l	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
Chloromethane	0.005	mg/l	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027
cis-1,2-Dichloroethene	0.005	mg/l	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022
cis-1,3-Dichloropropene	NS	mg/l	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012
Cyclohexane	NS	mg/l	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
Dibromochloromethane	NS	mg/l	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
Dichlorodifluoromethane	0.005	mg/l	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
Ethylbenzene	0.005	mg/l	< 0.00018	< 0.00018	< 0.00018	0.00048 J	0.00047 J
Freon 113	0.005	mg/l	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055
Isopropylbenzene	0.005	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Methyl Acetate	NS	mg/l	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
Methyl Tert Butyl Ether	0.01	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Methylcyclohexane	NS	mg/l	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
Methylene chloride	0.005	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Styrene	0.005	mg/l	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
Tetrachloroethene	0.005	mg/l	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
Toluene	0.005	mg/l	< 0.00018	< 0.00018	< 0.00018	0.0011	0.00093 J
trans-1,2-Dichloroethene	0.005	mg/l	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
trans-1,3-Dichloropropene	NS	mg/l	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
Trichloroethene	0.005	mg/l	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
Trichlorofluoromethane	0.005	mg/l	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Vinyl chloride	0.002	mg/l	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Xylene (total)	0.005	mg/l	< 0.00014	< 0.00014	< 0.00014	0.0016	0.0016
Total TIC, Volatile	NS	mg/l	0.0058 JN	0.0056 JN	0	0	0

Table 4. Summary of Waste Water Analytical Results, Operable Unit 1, Ramapo Paint

Sample ID Sample Date	NY TOGS Class GA GW Standards		WW(080613)-EFF 8/6/2013	DUP(080613)-WW 8/6/2013	WW(081913) 8/19/2013	WW-120513 12/5/2013	DUP-120513 12/5/2013
SVOCS							
1,1'-Biphenyl	0.005	mg/l	NA	NA	NA	< 0.00035	< 0.00036
1,2-Dichlorobenzene	0.003	mg/l	NA	NA	NA	NA	NA
1,2-DIPHENYLHYDRAZINE	NS	mg/l	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	0.003	mg/l	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	0.003	mg/l	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NS	mg/l	NA	NA	NA	< 0.0021	< 0.0021
2,4,6-Trichlorophenol	NS	mg/l	NA	NA	NA	< 0.0013	< 0.0014
2,4-Dichlorophenol	0.001	mg/l	NA	NA	NA	< 0.0017	< 0.0017
2,4-Dimethylphenol	0.001	mg/l	NA	NA	NA	< 0.0017	< 0.0018
2,4-Dinitrophenol	0.001	mg/l	NA	NA	NA	< 0.00095	< 0.00097
2,4-Dinitrotoluene	0.005	mg/l	NA	NA	NA	< 0.00091	< 0.00093
2,6-Dinitrotoluene	0.005	mg/l	NA	NA	NA	< 0.00059	< 0.00061
2-Chloronaphthalene	NS	mg/l	NA	NA	NA	< 0.001	< 0.0011
2-Chlorophenol	NS	mg/l	NA	NA	NA	< 0.001	< 0.001
2-Methylnaphthalene	NS	mg/l	NA	NA	NA	< 0.00043	< 0.00044
2-Methylphenol	NS	mg/l	NA	NA	NA	< 0.0014	< 0.0015
2-Nitroaniline	0.005	mg/l	NA	NA	NA	< 0.0007	< 0.00072
2-Nitrophenol	NS	mg/l	NA	NA	NA	< 0.0019	< 0.002
3&4-Methylphenol	NS	mg/l	NA	NA	NA	< 0.0014	< 0.0014
3,3'-Dichlorobenzidine	0.005	mg/l	NA	NA	NA	< 0.0013	< 0.0013
3-Nitroaniline	0.005	mg/l	NA	NA	NA	< 0.0013	< 0.0014
4,6-Dinitro-o-cresol	NS	mg/l	NA	NA	NA	< 0.00077	< 0.00078
4-Bromophenyl phenyl ether	NS	mg/l	NA	NA	NA	< 0.00032	< 0.00033
4-Chloro-3-methyl phenol	NS	mg/l	NA	NA	NA	< 0.0013	< 0.0013
4-Chloroaniline	0.005	mg/l	NA	NA	NA	< 0.00042	< 0.00043
4-Chlorophenyl phenyl ether	NS	mg/l	NA	NA	NA	< 0.00046	< 0.00047
4-Nitroaniline	0.005	mg/l	NA	NA	NA	< 0.00077	< 0.00078
4-Nitrophenol	NS	mg/l	NA	NA	NA	< 0.0009	< 0.00092
Acenaphthene	NS	mg/l	NA	NA	NA	0.00072 J	0.00068 J
Acenaphthylene	NS	mg/l	NA	NA	NA	< 0.00041	< 0.00041
Acetophenone	NS	mg/l	NA	NA	NA	< 0.0004	< 0.00041
Anthracene	NS	mg/l	NA	NA	NA	< 0.00042	< 0.00043
Atrazine	0.0075	mg/l	NA	NA	NA	< 0.00017	< 0.00018
Benzaldehyde	NS	mg/l	NA	NA	NA	< 0.00028	< 0.00029
BENZIDINE	0.005	mg/l	NA	NA	NA	NA	NA
Benzo(a)anthracene	NS	mg/l	NA	NA	NA	< 0.00038	< 0.00039
Benzo(a)pyrene	NS	mg/l	NA	NA	NA	< 0.00039	< 0.0004
Benzo(b)fluoranthene	NS	mg/l	NA	NA	NA	< 0.00063	< 0.00064
Benzo(g,h,i)perylene	NS	mg/l	NA	NA	NA	< 0.00045	< 0.00046
Benzo(k)fluoranthene	NS	mg/l	NA	NA	NA	< 0.00045	< 0.00046
BENZYL ALCOHOL	NS	mg/l	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	0.005	mg/l	NA	NA	NA	< 0.0007	< 0.00071
bis(2-Chloroethyl)ether	0.001	mg/l	NA	NA	NA	< 0.00056	< 0.00058
bis(2-Chloroisopropyl)ether	0.005	mg/l	NA	NA	NA	< 0.00079	< 0.0008
bis(2-Ethylhexyl)phthalate	0.005	mg/l	NA	NA	NA	< 0.0007	< 0.00072
Butyl benzyl phthalate	NS	mg/l	NA	NA	NA	< 0.00063	< 0.00064
Caprolactam	NS	mg/l	NA	NA	NA	< 0.00034	< 0.00034
Carbazole	NS	mg/l	NA	NA	NA	< 0.00039	< 0.0004
Chrysene	NS	mg/l	NA	NA	NA	< 0.00027	< 0.00027
Dibenzo(a,h)anthracene	NS	mg/l	NA	NA	NA	< 0.00058	< 0.00059
Dibenzofuran	NS	mg/l	NA	NA	NA	< 0.00037	< 0.00037
Diethyl phthalate	NS	mg/l	NA	NA	NA	< 0.00041	< 0.00042
Dimethyl phthalate	NS	mg/l	NA	NA	NA	< 0.00035	< 0.00036
Di-n-butyl phthalate	0.05	mg/l	NA	NA	NA	< 0.00063	< 0.00064
Di-n-octyl phthalate	NS	mg/l	NA	NA	NA	< 0.00061	< 0.00062
Fluoranthene	NS	mg/l	NA	NA	NA	< 0.00026	< 0.00027
Fluorene	NS	mg/l	NA	NA	NA	< 0.00048	< 0.00049
Hexachlorobenzene	0.00004	mg/l	NA	NA	NA	< 0.00057	< 0.00058
Hexachlorobutadiene	0.0005	mg/l	NA	NA	NA	< 0.00019	< 0.00019
Hexachlorocyclopentadiene	0.005	mg/l	NA	NA	NA	< 0.00043	< 0.00044
Hexachloroethane	0.005	mg/l	NA	NA	NA	< 0.0003	< 0.00031

Table 4. Summary of Waste Water Analytical Results, Operable Unit 1, Ramapo Paint

Sample ID Sample Date	NY TOGS Class GA GW Standards		WW(080613)-EFF 8/6/2013	DUP(080613)-WW 8/6/2013	WW(081913) 8/19/2013	WW-120513 12/5/2013	DUP-120513 12/5/2013
SVOCs (cont.)							
Indeno(1,2,3-cd)pyrene	NS	mg/l	NA	NA	NA	< 0.00032	< 0.00033
Isophorone	NS	mg/l	NA	NA	NA	< 0.00063	< 0.00064
METHANAMINE, N-METHYL-N-NITROSO	NS	mg/l	NA	NA	NA	NA	NA
Naphthalene	NS	mg/l	NA	NA	NA	< 0.00034	< 0.00035
Nitrobenzene	0.0004	mg/l	NA	NA	NA	< 0.00045	< 0.00046
N-Nitroso-di-n-propylamine	NS	mg/l	NA	NA	NA	< 0.0005	< 0.00051
N-Nitrosodiphenylamine	NS	mg/l	NA	NA	NA	< 0.00055	< 0.00056
Pentachlorophenol	0.001	mg/l	NA	NA	NA	< 0.002	< 0.0021
Phenanthrene	NS	mg/l	NA	NA	NA	< 0.00039	< 0.00039
Phenol	0.001	mg/l	NA	NA	NA	< 0.00053	< 0.00054
Pyrene	NS	mg/l	NA	NA	NA	< 0.00036	< 0.00036
Total TIC, Semi-Volatile	NS	mg/l	NA	NA	NA	0	0
Total TIC, Semi-Volatile	NS	mg/l	NA	NA	NA	NA	NA
PCBs							
Aroclor 1016	0.00009	mg/l	NA	NA	NA	< 0.00005	< 0.000051
Aroclor 1221	0.00009	mg/l	NA	NA	NA	< 0.00025	< 0.00026
Aroclor 1232	0.00009	mg/l	NA	NA	NA	< 0.00021	< 0.00021
Aroclor 1242	0.00009	mg/l	NA	NA	NA	< 0.000087	< 0.000089
Aroclor 1248	0.00009	mg/l	NA	NA	NA	< 0.000081	< 0.000083
Aroclor 1254	0.00009	mg/l	NA	NA	NA	< 0.000058	< 0.000059
Aroclor 1260	0.00009	mg/l	NA	NA	NA	< 0.000062	< 0.000064
Total Metals							
Arsenic	0.025	mg/l	< 0.0046 UB	< 0.0052 UB	< 0.003 UB	< 0.0015	< 0.0015
Barium	1	mg/l	0.457	0.479	0.464	0.0336 B	0.0346 B
Cadmium	0.005	mg/l	< 0.00024	< 0.00024	< 0.003 UB	< 0.00024	< 0.00024
Chromium	0.05	mg/l	< 0.00092	< 0.00092	< 0.01 UB	< 0.01 UB	< 0.01 UB
Copper	0.2	mg/l	< 0.001	< 0.001	< 0.01 UB	< 0.01 UB	< 0.01 UB
Iron	0.3	mg/l	2.28	2.56	1.58	0.135	< 0.149 UB
Lead	0.025	mg/l	< 0.0057 UB	0.0088	0.0051	0.0049	0.0133 J
Manganese	0.3	mg/l	1.99	2.08	1.63	0.0265	0.026
Mercury	0.0007	mg/l	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089
Nickel	0.1	mg/l	0.0151	0.0171	0.0122	< 0.0016	< 0.0016
Selenium	0.01	mg/l	< 0.0024	< 0.0024	< 0.0024	< 0.01 UB	< 0.0024
Silver	0.05	mg/l	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
Zinc	NS	mg/l	0.0061 B	0.0116 B	< 0.0044	< 0.0044	< 0.0044
Dissolved Metals							
Arsenic	0.025	mg/l	NA	NA	NA	< 0.0015	< 0.0015
Barium	1	mg/l	NA	NA	NA	0.0321 B	0.0294 B
Cadmium	0.005	mg/l	NA	NA	NA	< 0.003 UB	< 0.00024
Chromium	0.05	mg/l	NA	NA	NA	< 0.01 UB	< 0.01 UB
Copper	0.2	mg/l	NA	NA	NA	< 0.01 UB	< 0.01 UB
Iron	0.3	mg/l	NA	NA	NA	< 0.1 UB	< 0.1 UB
Lead	0.025	mg/l	NA	NA	NA	0.0042 J	0.0183
Manganese	0.3	mg/l	NA	NA	NA	0.0259	0.0251
Mercury	0.0007	mg/l	NA	NA	NA	< 0.000089	< 0.000089
Nickel	0.1	mg/l	NA	NA	NA	< 0.0016	< 0.0016
Selenium	0.01	mg/l	NA	NA	NA	< 0.01 UB	< 0.0024
Silver	0.05	mg/l	NA	NA	NA	< 0.0015	< 0.0015
Zinc	NS	mg/l	NA	NA	NA	< 0.02 UB	< 0.02 UB
Other							
CHROMIUM (HEXVALENT COMPOUNDS)	0.05	mg/l	NA	NA	NA	< 0.01	< 0.01
Solids, Total Suspended	NS	mg/l	NA	NA	NA	5	< 4

- Notes:
- mg/l Milligrams per liter
 - < Not Detected
 - NA Not Analyzed
 - UB Results considered non-detect at the listed value due to blank contamination.
 - B Result is between the method detection limit and the reporting limit.
 - J or JN Estimated Result
 - R Rejected Result
 - Bold** Detection
 - Bold** Result exceeds NY TOGS Class GA GW Standards

Table 4A. Summary of Waste Water QA/QC Results, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID	NY TOGS Class		FB (030613)W	FB (031513)	FB (041813)WW	FB(060313)-WW	FB(060713)-WW	FB(061213)-WW	FB(061313)-WW	FB(061413)-WW	FB(061813)-WW	FB(062413)-WW	FB(071113)WW
Sample Date	GA GW Standards	Units	3/6/2013	3/15/2013	4/18/2013	6/3/2013	6/7/2013	6/12/2013	6/13/2013	6/14/2013	6/18/2013	6/24/2013	7/11/2013
VOCs-8011													
1,2-Dibromo-3-chloropropane	0.00004	mg/l	< 0.000014	< 0.000014	< 0.000014	< 0.000014	< 0.000014	< 0.000014	< 0.000014	< 0.000014	< 0.000014	< 0.000014	< 0.000014
1,2-Dibromoethane	0.0000006	mg/l	< 0.000011	< 0.000011	< 0.000011	< 0.000011	< 0.000011	< 0.000011	< 0.000011	< 0.000011	< 0.000011	< 0.000011	< 0.000011
VOCs													
1,1,1-Trichloroethane	0.005	mg/l	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
1,1,2,2-Tetrachloroethane	0.005	mg/l	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
1,1,2-Trichloroethane	0.001	mg/l	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025 J	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025
1,1-Dichloroethane	0.005	mg/l	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
1,1-Dichloroethene	0.005	mg/l	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028
1,2,4-Trichlorobenzene	0.005	mg/l	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015 J	< 0.00015	< 0.00015 J	< 0.00015	< 0.00015	< 0.00015	< 0.00015
1,2-Dibromo-3-chloropropane	0.00004	mg/l	< 0.00081	< 0.00081	< 0.00081	< 0.00081	< 0.00081	< 0.00081	< 0.00081	< 0.00081	< 0.00081	< 0.00081	< 0.00081
1,2-Dibromoethane	0.0000006	mg/l	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023
1,2-Dichlorobenzene	0.003	mg/l	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023
1,2-Dichloroethane	0.0006	mg/l	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026
1,2-Dichloropropane	0.001	mg/l	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
1,3-Dichlorobenzene	0.003	mg/l	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
1,4-Dichlorobenzene	0.003	mg/l	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
2-Butanone (MEK)	NS	mg/l	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
2-Hexanone	NS	mg/l	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
4-Methyl-2-pentanone(MIBK)	NS	mg/l	< 0.00045	< 0.00045	< 0.00045	< 0.00045	< 0.00045	< 0.00045	< 0.00045	< 0.00045	< 0.00045	< 0.00045	< 0.00045
Acetone	NS	mg/l	< 0.0036	< 0.0036	< 0.0036	0.0111	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036
Benzene	0.001	mg/l	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022
Bromodichloromethane	NS	mg/l	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095
Bromoform	NS	mg/l	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016 J	< 0.00016	< 0.00016	< 0.00016	< 0.00016
Bromomethane	0.005	mg/l	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025
Carbon disulfide	0.06	mg/l	< 0.00017	< 0.00017	< 0.00017	< 0.00017	< 0.00017	< 0.00017	< 0.00017	< 0.00017	< 0.00017	< 0.00017	< 0.00017
Carbon tetrachloride	0.005	mg/l	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
Chlorobenzene	0.005	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Chloroethane	0.005	mg/l	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025
Chloroform	0.007	mg/l	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
Chloromethane	0.005	mg/l	< 0.00027	< 0.00027	< 0.00027	< 0.00027 J	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027
cis-1,2-Dichloroethene	0.005	mg/l	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022
cis-1,3-Dichloropropene	NS	mg/l	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012 J	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012
Cyclohexane	NS	mg/l	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
Dibromochloromethane	NS	mg/l	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
Dichlorodifluoromethane	0.005	mg/l	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021 J	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
Ethylbenzene	0.005	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Freon 113	0.005	mg/l	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055
Isopropylbenzene	0.005	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Methyl Acetate	NS	mg/l	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
Methyl Tert Butyl Ether	0.01	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Methylcyclohexane	NS	mg/l	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
Methylene chloride	0.005	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Styrene	0.005	mg/l	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
Tetrachloroethene	0.005	mg/l	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
Toluene	0.005	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
trans-1,2-Dichloroethene	0.005	mg/l	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
trans-1,3-Dichloropropene	NS	mg/l	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014 J	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
Trichloroethene	0.005	mg/l	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
Trichlorofluoromethane	0.005	mg/l	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Vinyl chloride	0.002	mg/l	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Xylene (total)	0.005	mg/l	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
Total TIC, Volatile	NS	mg/l	0	0	0	0	0	0	0	0	0	0	0

Table 4A. Summary of Waste Water QA/QC Results, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID	NY TOGS Class		FB (030613)W	FB (031513)	FB (041813)WW	FB(060313)-WW	FB(060713)-WW	FB(061213)-WW	FB(061313)-WW	FB(061413)-WW	FB(061813)-WW	FB(062413)-WW	FB(071113)WW
Sample Date	GA GW Standards	Units	3/6/2013	3/15/2013	4/18/2013	6/3/2013	6/7/2013	6/12/2013	6/13/2013	6/14/2013	6/18/2013	6/24/2013	7/11/2013
SVOCs													
1,1'-Biphenyl	0.005	mg/l	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00035	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	0.003	mg/l	< 0.00021	< 0.00021	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-DIPHENYLHYDRAZINE	NS	mg/l	< 0.00045	< 0.00045	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	0.003	mg/l	< 0.00016	< 0.00016	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	0.003	mg/l	< 0.00018	< 0.00018	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NS	mg/l	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0021	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	NS	mg/l	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0014	NA	NA	NA	NA	NA
2,4-Dichlorophenol	0.001	mg/l	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0017	NA	NA	NA	NA	NA
2,4-Dimethylphenol	0.001	mg/l	< 0.0016	< 0.0016	< 0.0016	< 0.0016 J	< 0.0016	< 0.0018	NA	NA	NA	NA	NA
2,4-Dinitrophenol	0.001	mg/l	< 0.00089	< 0.00089	< 0.00089	< 0.00089 J	< 0.00089 J	< 0.00096 J	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	0.005	mg/l	< 0.00086	< 0.00086	< 0.00086	< 0.00086 J	< 0.00086	< 0.00092 J	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	0.005	mg/l	< 0.00056	< 0.00056	< 0.00056	< 0.00056 J	< 0.00056	< 0.0006 J	NA	NA	NA	NA	NA
2-Chloronaphthalene	NS	mg/l	< 0.00098	< 0.00098	< 0.00098	< 0.00098	< 0.00098	< 0.0011	NA	NA	NA	NA	NA
2-Chlorophenol	NS	mg/l	< 0.00095	< 0.00095	< 0.00095	< 0.00095	< 0.00095	< 0.001	NA	NA	NA	NA	NA
2-Methylnaphthalene	NS	mg/l	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00044	NA	NA	NA	NA	NA
2-Methylphenol	NS	mg/l	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0015	NA	NA	NA	NA	NA
2-Nitroaniline	0.005	mg/l	< 0.00066	< 0.00066	< 0.00066	< 0.00066 J	< 0.00066	< 0.00071	NA	NA	NA	NA	NA
2-Nitrophenol	NS	mg/l	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0019	NA	NA	NA	NA	NA
3&4-Methylphenol	NS	mg/l	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0014	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	0.005	mg/l	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0013	NA	NA	NA	NA	NA
3-Nitroaniline	0.005	mg/l	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0014	NA	NA	NA	NA	NA
4,6-Dinitro-o-cresol	NS	mg/l	< 0.00072	< 0.00072	< 0.00072	< 0.00072 J	< 0.00072 J	< 0.00078 J	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NS	mg/l	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.00032	NA	NA	NA	NA	NA
4-Chloro-3-methyl phenol	NS	mg/l	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0013	NA	NA	NA	NA	NA
4-Chloroaniline	0.005	mg/l	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.00043	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NS	mg/l	< 0.00043	< 0.00043	< 0.00043	< 0.00043	< 0.00043	< 0.00046	NA	NA	NA	NA	NA
4-Nitroaniline	0.005	mg/l	< 0.00072	< 0.00072	< 0.00072	< 0.00072	< 0.00072	< 0.00078	NA	NA	NA	NA	NA
4-Nitrophenol	NS	mg/l	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084 J	< 0.00091	NA	NA	NA	NA	NA
Acenaphthene	NS	mg/l	< 0.00035	< 0.00035	< 0.00035	< 0.00035	< 0.00035	< 0.00038	NA	NA	NA	NA	NA
Acenaphthylene	NS	mg/l	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00041	NA	NA	NA	NA	NA
Acetophenone	NS	mg/l	< 0.00037	< 0.00037	< 0.00037	< 0.00037	< 0.00037	< 0.0004	NA	NA	NA	NA	NA
Anthracene	NS	mg/l	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.00043	NA	NA	NA	NA	NA
Atrazine	0.0075	mg/l	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00018 J	NA	NA	NA	NA	NA
Benzaldehyde	NS	mg/l	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00028	NA	NA	NA	NA	NA
BENZIDINE	0.005	mg/l	< 0.00028	< 0.00028	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	NS	mg/l	< 0.00036	< 0.00036	< 0.00036	< 0.00036	< 0.00036	< 0.00038	NA	NA	NA	NA	NA
Benzo(a)pyrene	NS	mg/l	< 0.00037	< 0.00037	< 0.00037	< 0.00037	< 0.00037	< 0.00039	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NS	mg/l	< 0.00059	< 0.00059	< 0.00059	< 0.00059	< 0.00059	< 0.00064	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	NS	mg/l	< 0.00042	< 0.00042	< 0.00042	< 0.00042	< 0.00042	< 0.00045	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	NS	mg/l	< 0.00042	< 0.00042	< 0.00042	< 0.00042	< 0.00042	< 0.00045	NA	NA	NA	NA	NA
BENZYL ALCOHOL	NS	mg/l	< 0.00037	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	0.005	mg/l	< 0.00065	< 0.00065	< 0.00065	< 0.00065	< 0.00065	< 0.0007	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	0.001	mg/l	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00057	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	0.005	mg/l	< 0.00074	< 0.00074	< 0.00074	< 0.00074 J	< 0.00074	< 0.00079	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	0.005	mg/l	< 0.00066	< 0.00066	< 0.00066	< 0.00066 J	< 0.00066 J	< 0.00071	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NS	mg/l	< 0.00059	< 0.00059	< 0.00059	< 0.00059	< 0.00059	< 0.00064	NA	NA	NA	NA	NA
Caprolactam	NS	mg/l	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00034	NA	NA	NA	NA	NA
Carbazole	NS	mg/l	< 0.00036	< 0.00036	< 0.00036	< 0.00036	< 0.00036	< 0.00039	NA	NA	NA	NA	NA
Chrysene	NS	mg/l	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00027	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	NS	mg/l	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00058	NA	NA	NA	NA	NA
Dibenzofuran	NS	mg/l	< 0.00034	< 0.00034	< 0.00034	< 0.00034	< 0.00034	< 0.00037	NA	NA	NA	NA	NA
Diethyl phthalate	NS	mg/l	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00042	NA	NA	NA	NA	NA
Dimethyl phthalate	NS	mg/l	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00035	NA	NA	NA	NA	NA
Di-n-butyl phthalate	0.05	mg/l	< 0.00059	< 0.00059	< 0.00059	< 0.00059	< 0.00059	< 0.00064	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NS	mg/l	< 0.00057	< 0.00057	< 0.00057	< 0.00057 J	< 0.00057 J	< 0.00061	NA	NA	NA	NA	NA
Fluoranthene	NS	mg/l	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00027	NA	NA	NA	NA	NA
Fluorene	NS	mg/l	< 0.00045	< 0.00045	< 0.00045	< 0.00045	< 0.00045	< 0.00048	NA	NA	NA	NA	NA
Hexachlorobenzene	0.00004	mg/l	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00058	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.0005	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00019	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	0.005	mg/l	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00044	NA	NA	NA	NA	NA

Table 4A. Summary of Waste Water QA/QC Results, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID	NY TOGS Class		FB (030613)W	FB (031513)	FB (041813)WW	FB(060313)-WW	FB(060713)-WW	FB(061213)-WW	FB(061313)-WW	FB(061413)-WW	FB(061813)-WW	FB(062413)-WW	FB(071113)WW
Sample Date	GA GW Standards	Units	3/6/2013	3/15/2013	4/18/2013	6/3/2013	6/7/2013	6/12/2013	6/13/2013	6/14/2013	6/18/2013	6/24/2013	7/11/2013
SVOCs continued													
Hexachloroethane	0.005	mg/l	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.0003	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	NS	mg/l	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.00033	NA	NA	NA	NA	NA
Isophorone	NS	mg/l	< 0.00059	< 0.00059	< 0.00059	< 0.00059	< 0.00059 J	< 0.00063	NA	NA	NA	NA	NA
METHANAMINE, N-METHYL-N-NITROSO	NS	mg/l	< 0.00046	< 0.00046	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NS	mg/l	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00035	NA	NA	NA	NA	NA
Nitrobenzene	0.0004	mg/l	< 0.00042	< 0.00042	< 0.00042	< 0.00042	< 0.00042 J	< 0.00045	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	NS	mg/l	< 0.00047	< 0.00047	< 0.00047	< 0.00047	< 0.00047	< 0.0005	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NS	mg/l	< 0.00052	< 0.00052	< 0.00052	< 0.00052	< 0.00052	< 0.00055	NA	NA	NA	NA	NA
Pentachlorophenol	0.001	mg/l	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.002	NA	NA	NA	NA	NA
Phenanthrene	NS	mg/l	< 0.00036	< 0.00036	< 0.00036	< 0.00036	< 0.00036	< 0.00039	NA	NA	NA	NA	NA
Phenol	0.001	mg/l	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.00053	NA	NA	NA	NA	NA
Pyrene	NS	mg/l	< 0.00034	< 0.00034	< 0.00034	< 0.00034	< 0.00034	< 0.00036	NA	NA	NA	NA	NA
Total TIC, Semi-Volatile	NS	mg/l	0	0	0.0043 JN	0	0	0	NA	NA	NA	NA	NA
Total TIC, Semi-Volatile	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs													
Aroclor 1016	0.00009	mg/l	< 0.000049	< 0.000049	< 0.000048	< 0.000047	< 0.000047	< 0.00005 J	NA	NA	NA	NA	NA
Aroclor 1221	0.00009	mg/l	< 0.00025	< 0.00024	< 0.00024	< 0.00024	< 0.00024	< 0.00025 J	NA	NA	NA	NA	NA
Aroclor 1232	0.00009	mg/l	< 0.0002	< 0.0002	< 0.0002	< 0.00019	< 0.00019	< 0.00021 J	NA	NA	NA	NA	NA
Aroclor 1242	0.00009	mg/l	< 0.000086	< 0.000085	< 0.000085	< 0.000082 J	< 0.000082	< 0.000087 J	NA	NA	NA	NA	NA
Aroclor 1248	0.00009	mg/l	< 0.000081	< 0.00008	< 0.000079	< 0.000077 J	< 0.000077	< 0.000081 J	NA	NA	NA	NA	NA
Aroclor 1254	0.00009	mg/l	< 0.000057	< 0.000057	< 0.000056	< 0.000055 J	< 0.000055	< 0.000058 J	NA	NA	NA	NA	NA
Aroclor 1260	0.00009	mg/l	< 0.000062	< 0.000061	< 0.00006	< 0.000059 J	< 0.000059	< 0.000062 J	NA	NA	NA	NA	NA
Total Metals													
Arsenic	0.025	mg/l	< 0.00097	< 0.00097	< 0.00097	< 0.0015	< 0.0015	< 0.0015	< 0.0015	0.0016 B	0.0017 B	< 0.0015	< 0.0015
Barium	1	mg/l	< 0.00066	< 0.00066	< 0.00066	< 0.00036	0.0005 B	< 0.00036	< 0.00036	0.0005 B	< 0.00036	< 0.00036	< 0.00036
Cadmium	0.005	mg/l	< 0.00024	< 0.00024	< 0.00024	< 0.00024	< 0.00024	< 0.00024	< 0.00024	< 0.00024	< 0.00024	< 0.00024	< 0.00024
Chromium	0.05	mg/l	< 0.00091	< 0.00091	< 0.00091	< 0.00092 J	< 0.00092	< 0.00092	< 0.00092	< 0.00092	< 0.00092	< 0.00092	< 0.00092
Copper	0.2	mg/l	< 0.0013	< 0.0013	< 0.0013	0.001 B	< 0.001	< 0.001	< 0.001	< 0.001	0.0099 B	< 0.001	< 0.001
Iron	0.3	mg/l	< 0.024	< 0.024	< 0.024	< 0.013	< 0.013	< 0.013	0.0441 B	< 0.013	< 0.013	< 0.013	< 0.013
Lead	0.025	mg/l	< 0.0017	< 0.0017	< 0.0017	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0024
Manganese	0.3	mg/l	< 0.0004	0.001 B	< 0.0004	< 0.00018	< 0.00018	< 0.00018	0.0007 B	< 0.00018	< 0.00018	< 0.00018	0.0004 B
Mercury	0.0007	mg/l	< 0.000095	< 0.000095	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089
Nickel	0.1	mg/l	< 0.00094	< 0.00094	< 0.00094	< 0.0016	< 0.0016	< 0.0016	< 0.0016	0.0017 B	< 0.0016	< 0.0016	< 0.0016
Selenium	0.01	mg/l	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0024 J	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0024
Silver	0.05	mg/l	< 0.00085	< 0.00085	< 0.00085	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
Zinc	NS	mg/l	< 0.0028	< 0.0028	< 0.0028	< 0.0044	< 0.0044	< 0.0044	< 0.0044	< 0.0044	< 0.0044	< 0.0044	< 0.0044
Dissolved Metals													
Arsenic	0.025	mg/l	NA	< 0.00097	< 0.00097	< 0.0015	NA	NA	NA	NA	NA	NA	NA
Barium	1	mg/l	NA	< 0.00066	< 0.00066	< 0.00036	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.005	mg/l	NA	< 0.00024	< 0.00024	< 0.00024	NA	NA	NA	NA	NA	NA	NA
Chromium	0.05	mg/l	NA	< 0.00091	0.0034 B	< 0.00092 J	NA	NA	NA	NA	NA	NA	NA
Copper	0.2	mg/l	NA	< 0.0013	< 0.0013	< 0.001	NA	NA	NA	NA	NA	NA	NA
Iron	0.3	mg/l	NA	< 0.024	< 0.024	< 0.013	NA	NA	NA	NA	NA	NA	NA
Lead	0.025	mg/l	NA	< 0.0017	< 0.0017	< 0.0024	NA	NA	NA	NA	NA	NA	NA
Manganese	0.3	mg/l	NA	< 0.0004	< 0.0004	0.0002 B	NA	NA	NA	NA	NA	NA	NA
Mercury	0.0007	mg/l	NA	< 0.000095	< 0.000089	< 0.000089	NA	NA	NA	NA	NA	NA	NA
Nickel	0.1	mg/l	NA	< 0.00094	< 0.00094	< 0.0016	NA	NA	NA	NA	NA	NA	NA
Selenium	0.01	mg/l	NA	< 0.0024	< 0.0024	< 0.0024	NA	NA	NA	NA	NA	NA	NA
Silver	0.05	mg/l	NA	< 0.00085	< 0.00085	< 0.0015	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	mg/l	NA	< 0.0028	0.0063 B	< 0.0044	NA	NA	NA	NA	NA	NA	NA
Other													
CHROMIUM (HEXVALENT COMPOUNDS)	0.05	mg/l	< 0.01	< 0.01	< 0.01	R	< 0.01	< 0.01	NA	NA	NA	NA	NA
Solids, Total Suspended	NS	mg/l	NA	< 4	< 4	< 4	< 4	< 4	NA	NA	NA	NA	NA

Notes:

- mg/L Milligrams per liter
- < Not Detected
- NA Not Analyzed
- B Result is between the method detection limit and the reporting limit.
- J Estimated Result

Table 4A. Summary of Waste Water QA/QC Results, Operable Unit 1, Ramapo

Sample ID	NY TOGS Class		FB(080613)-WW	FB(081913)-WW	FB-120513	TRIP BLANK (3/6/2013)	TRIP BLANK (3/15/2013)	TRIP BLANK (3/29/2013)	TB (041813)WW	TB(051513) WW	TB(060313)-WW	TB(060713)
Sample Date	GA GW Standards	Units	8/6/2013	8/19/2013	12/5/2013	3/6/2013	3/15/2013	3/29/2013	4/18/2013	5/15/2013	6/3/2013	6/7/2013
VOCs-8011												
1,2-Dibromo-3-chloropropane	0.00004	mg/l	< 0.000014	< 0.000014	< 0.000014	NA	NA	NA	< 0.000014	< 0.000014	< 0.000014	< 0.000014
1,2-Dibromoethane	0.0000006	mg/l	< 0.000011	< 0.000011	< 0.000011	NA	NA	NA	< 0.000011	< 0.000011	< 0.000011	< 0.000011
VOCs												
1,1,1-Trichloroethane	0.005	mg/l	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
1,1,2,2-Tetrachloroethane	0.005	mg/l	< 0.0002	< 0.0002 J	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
1,1,2-Trichloroethane	0.001	mg/l	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025 J
1,1-Dichloroethane	0.005	mg/l	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
1,1-Dichloroethene	0.005	mg/l	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028
1,2,4-Trichlorobenzene	0.005	mg/l	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015 J
1,2-Dibromo-3-chloropropane	0.00004	mg/l	< 0.00081	< 0.00081	< 0.00081	< 0.00081	< 0.00081	< 0.00081	< 0.00081	< 0.00081	< 0.00081	< 0.00081
1,2-Dibromoethane	0.0000006	mg/l	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023
1,2-Dichlorobenzene	0.003	mg/l	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023
1,2-Dichloroethane	0.0006	mg/l	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026
1,2-Dichloropropane	0.001	mg/l	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
1,3-Dichlorobenzene	0.003	mg/l	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
1,4-Dichlorobenzene	0.003	mg/l	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
2-Butanone (MEK)	NS	mg/l	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
2-Hexanone	NS	mg/l	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
4-Methyl-2-pentanone(MIBK)	NS	mg/l	< 0.00045	< 0.00045	< 0.00045	< 0.00045	< 0.00045	< 0.00045	< 0.00045	< 0.00045	< 0.00045	< 0.00045
Acetone	NS	mg/l	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036
Benzene	0.001	mg/l	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022
Bromodichloromethane	NS	mg/l	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095
Bromoform	NS	mg/l	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016
Bromomethane	0.005	mg/l	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025
Carbon disulfide	0.06	mg/l	< 0.00017	< 0.00017	< 0.00017	< 0.00017	< 0.00017	< 0.00017	< 0.00017	< 0.00017	< 0.00017	< 0.00017
Carbon tetrachloride	0.005	mg/l	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
Chlorobenzene	0.005	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Chloroethane	0.005	mg/l	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025
Chloroform	0.007	mg/l	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
Chloromethane	0.005	mg/l	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027 J	< 0.00027
cis-1,2-Dichloroethene	0.005	mg/l	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022
cis-1,3-Dichloropropene	NS	mg/l	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012 J
Cyclohexane	NS	mg/l	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
Dibromochloromethane	NS	mg/l	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
Dichlorodifluoromethane	0.005	mg/l	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021 J
Ethylbenzene	0.005	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Freon 113	0.005	mg/l	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055
Isopropylbenzene	0.005	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Methyl Acetate	NS	mg/l	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
Methyl Tert Butyl Ether	0.01	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Methylcyclohexane	NS	mg/l	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
Methylene chloride	0.005	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Styrene	0.005	mg/l	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
Tetrachloroethene	0.005	mg/l	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
Toluene	0.005	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
trans-1,2-Dichloroethene	0.005	mg/l	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
trans-1,3-Dichloropropene	NS	mg/l	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014 J
Trichloroethene	0.005	mg/l	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
Trichlorofluoromethane	0.005	mg/l	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Vinyl chloride	0.002	mg/l	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Xylene (total)	0.005	mg/l	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
Total TIC, Volatile	NS	mg/l	0	0	0	0	0	0	0	0	0	0

Table 4A. Summary of Waste Water QA/QC Results, Operable Unit 1, Ramapo

Sample ID	NY TOGS Class		FB(080613)-WW	FB(081913)-WW	FB-120513	TRIP BLANK (3/6/2013)	TRIP BLANK (3/15/2013)	TRIP BLANK (3/29/2013)	TB (041813)WW	TB(051513) WW	TB(060313)-WW	TB(060713)
Sample Date	GA GW Standards	Units	8/6/2013	8/19/2013	12/5/2013	3/6/2013	3/15/2013	3/29/2013	4/18/2013	5/15/2013	6/3/2013	6/7/2013
SVOCs												
1,1'-Biphenyl	0.005	mg/l	NA	NA	< 0.00034	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	0.003	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-DIPHENYLHYDRAZINE	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	0.003	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	0.003	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NS	mg/l	NA	NA	< 0.002	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	NS	mg/l	NA	NA	< 0.0013	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	0.001	mg/l	NA	NA	< 0.0016	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	0.001	mg/l	NA	NA	< 0.0017	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	0.001	mg/l	NA	NA	< 0.00094	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	0.005	mg/l	NA	NA	< 0.00091	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	0.005	mg/l	NA	NA	< 0.00059	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	NS	mg/l	NA	NA	< 0.001	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	NS	mg/l	NA	NA	< 0.001	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NS	mg/l	NA	NA	< 0.00043	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	NS	mg/l	NA	NA	< 0.0014	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	0.005	mg/l	NA	NA	< 0.0007	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NS	mg/l	NA	NA	< 0.0019	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	NS	mg/l	NA	NA	< 0.0013	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	0.005	mg/l	NA	NA	< 0.0013	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	0.005	mg/l	NA	NA	< 0.0013	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-o-cresol	NS	mg/l	NA	NA	< 0.00076	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NS	mg/l	NA	NA	< 0.00031	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methyl phenol	NS	mg/l	NA	NA	< 0.0012	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	0.005	mg/l	NA	NA	< 0.00042	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NS	mg/l	NA	NA	< 0.00045	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	0.005	mg/l	NA	NA	< 0.00076	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NS	mg/l	NA	NA	< 0.00089	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	NS	mg/l	NA	NA	< 0.00037	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NS	mg/l	NA	NA	< 0.0004	NA	NA	NA	NA	NA	NA	NA
Acetophenone	NS	mg/l	NA	NA	< 0.00039	NA	NA	NA	NA	NA	NA	NA
Anthracene	NS	mg/l	NA	NA	< 0.00042	NA	NA	NA	NA	NA	NA	NA
Atrazine	0.0075	mg/l	NA	NA	< 0.00017	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	NS	mg/l	NA	NA	< 0.00028 J	NA	NA	NA	NA	NA	NA	NA
BENZIDINE	0.005	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	NS	mg/l	NA	NA	< 0.00037	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	NS	mg/l	NA	NA	< 0.00039	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NS	mg/l	NA	NA	< 0.00062	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	NS	mg/l	NA	NA	< 0.00044	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	NS	mg/l	NA	NA	< 0.00044	NA	NA	NA	NA	NA	NA	NA
BENZYL ALCOHOL	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	0.005	mg/l	NA	NA	< 0.00069	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	0.001	mg/l	NA	NA	< 0.00056	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	0.005	mg/l	NA	NA	< 0.00078	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	0.005	mg/l	NA	NA	< 0.0007	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NS	mg/l	NA	NA	< 0.00062	NA	NA	NA	NA	NA	NA	NA
Caprolactam	NS	mg/l	NA	NA	< 0.00033	NA	NA	NA	NA	NA	NA	NA
Carbazole	NS	mg/l	NA	NA	< 0.00038	NA	NA	NA	NA	NA	NA	NA
Chrysene	NS	mg/l	NA	NA	< 0.00026	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	NS	mg/l	NA	NA	< 0.00057	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NS	mg/l	NA	NA	< 0.00036	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	NS	mg/l	NA	NA	< 0.00041	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NS	mg/l	NA	NA	< 0.00035	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	0.05	mg/l	NA	NA	< 0.00062	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NS	mg/l	NA	NA	< 0.0006	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NS	mg/l	NA	NA	< 0.00026	NA	NA	NA	NA	NA	NA	NA
Fluorene	NS	mg/l	NA	NA	< 0.00047	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.00004	mg/l	NA	NA	< 0.00057	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.0005	mg/l	NA	NA	< 0.00018	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	0.005	mg/l	NA	NA	< 0.00043	NA	NA	NA	NA	NA	NA	NA

Table 4A. Summary of Waste Water QA/QC Results, Operable Unit 1, Ramapo

Sample ID	NY TOGS Class		FB(080613)-WW	FB(081913)-WW	FB-120513	TRIP BLANK (3/6/2013)	TRIP BLANK (3/15/2013)	TRIP BLANK (3/29/2013)	TB (041813)WW	TB(051513) WW	TB(060313)-WW	TB(060713)
Sample Date	GA GW Standards	Units	8/6/2013	8/19/2013	12/5/2013	3/6/2013	3/15/2013	3/29/2013	4/18/2013	5/15/2013	6/3/2013	6/7/2013
SVOCs continued												
Hexachloroethane	0.005	mg/l	NA	NA	< 0.0003	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	NS	mg/l	NA	NA	< 0.00032	NA	NA	NA	NA	NA	NA	NA
Isophorone	NS	mg/l	NA	NA	< 0.00062	NA	NA	NA	NA	NA	NA	NA
METHANAMINE, N-METHYL-N-NITROSO	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NS	mg/l	NA	NA	< 0.00034	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.0004	mg/l	NA	NA	< 0.00044	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	NS	mg/l	NA	NA	< 0.00049	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NS	mg/l	NA	NA	< 0.00054	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	0.001	mg/l	NA	NA	< 0.002	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NS	mg/l	NA	NA	< 0.00038	NA	NA	NA	NA	NA	NA	NA
Phenol	0.001	mg/l	NA	NA	< 0.00052	NA	NA	NA	NA	NA	NA	NA
Pyrene	NS	mg/l	NA	NA	< 0.00035	NA	NA	NA	NA	NA	NA	NA
Total TIC, Semi-Volatile	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total TIC, Semi-Volatile	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs												
Aroclor 1016	0.00009	mg/l	NA	NA	< 0.000049	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	0.00009	mg/l	NA	NA	< 0.00025	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	0.00009	mg/l	NA	NA	< 0.0002	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	0.00009	mg/l	NA	NA	< 0.000086	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	0.00009	mg/l	NA	NA	< 0.000081	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	0.00009	mg/l	NA	NA	< 0.000057	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	0.00009	mg/l	NA	NA	< 0.000062	NA	NA	NA	NA	NA	NA	NA
Total Metals												
Arsenic	0.025	mg/l	< 0.0015	< 0.0015	< 0.0015	NA	NA	NA	NA	NA	NA	NA
Barium	1	mg/l	< 0.00036	< 0.00036	0.0004 B	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.005	mg/l	< 0.00024	0.0003 B	< 0.00024	NA	NA	NA	NA	NA	NA	NA
Chromium	0.05	mg/l	< 0.00092	< 0.00092	< 0.00092	NA	NA	NA	NA	NA	NA	NA
Copper	0.2	mg/l	< 0.001	0.001 B	< 0.001	NA	NA	NA	NA	NA	NA	NA
Iron	0.3	mg/l	< 0.013	< 0.013	< 0.013	NA	NA	NA	NA	NA	NA	NA
Lead	0.025	mg/l	< 0.0024	< 0.0024	< 0.0024	NA	NA	NA	NA	NA	NA	NA
Manganese	0.3	mg/l	0.0046 B	< 0.00018	< 0.00018	NA	NA	NA	NA	NA	NA	NA
Mercury	0.0007	mg/l	< 0.000089	< 0.000089	< 0.000089	NA	NA	NA	NA	NA	NA	NA
Nickel	0.1	mg/l	0.0017 B	< 0.0016	< 0.0016	NA	NA	NA	NA	NA	NA	NA
Selenium	0.01	mg/l	< 0.0024	< 0.0024	< 0.0024	NA	NA	NA	NA	NA	NA	NA
Silver	0.05	mg/l	< 0.0015	< 0.0015	< 0.0015	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	mg/l	< 0.0044	< 0.0044	< 0.0044	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals												
Arsenic	0.025	mg/l	NA	NA	< 0.0015	NA	NA	NA	NA	NA	NA	NA
Barium	1	mg/l	NA	NA	0.0005 B	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.005	mg/l	NA	NA	< 0.00024	NA	NA	NA	NA	NA	NA	NA
Chromium	0.05	mg/l	NA	NA	< 0.00092	NA	NA	NA	NA	NA	NA	NA
Copper	0.2	mg/l	NA	NA	< 0.001	NA	NA	NA	NA	NA	NA	NA
Iron	0.3	mg/l	NA	NA	0.0172 B	NA	NA	NA	NA	NA	NA	NA
Lead	0.025	mg/l	NA	NA	< 0.0024	NA	NA	NA	NA	NA	NA	NA
Manganese	0.3	mg/l	NA	NA	0.0012 B	NA	NA	NA	NA	NA	NA	NA
Mercury	0.0007	mg/l	NA	NA	< 0.000089	NA	NA	NA	NA	NA	NA	NA
Nickel	0.1	mg/l	NA	NA	< 0.0016	NA	NA	NA	NA	NA	NA	NA
Selenium	0.01	mg/l	NA	NA	< 0.0024	NA	NA	NA	NA	NA	NA	NA
Silver	0.05	mg/l	NA	NA	< 0.0015	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	mg/l	NA	NA	0.0084 B	NA	NA	NA	NA	NA	NA	NA
Other												
CHROMIUM (HEXVALENT COMPOUNDS)	0.05	mg/l	NA	NA	< 0.01	NA	NA	NA	NA	NA	NA	NA
Solids, Total Suspended	NS	mg/l	NA	NA	< 4	NA	NA	NA	NA	NA	NA	NA

- Notes:
- mg/L Milligrams per liter
 - < Not Detected
 - NA Not Analyzed
 - B Result is between the method detection limit and the reporting limit.
 - J Estimated Result

Table 4A. Summary of Waste Water QA/QC Results, Operable Unit 1, Ramapo

Sample ID	NY TOGS Class		TB(061213)-WW	TB(061313)-WW	TB(061413)-WW	TB(061813)-WW	TB(062413)-WW	TB(071113)WW	TB(080613)-WW	TB(081913)-WW	TRIP BLANK-120513
Sample Date	GA GW Standards	Units	6/12/2013	6/13/2013	6/14/2013	6/18/2013	6/24/2013	7/11/2013	8/6/2013	8/19/2013	12/5/2013
VOCs-8011											
1,2-Dibromo-3-chloropropane	0.00004	mg/l	< 0.000014	< 0.000014	< 0.000014	< 0.000014	< 0.000014	< 0.000014	< 0.000014	< 0.000014	< 0.000014
1,2-Dibromoethane	0.0000006	mg/l	< 0.000011	< 0.000011	< 0.000011	< 0.000011	< 0.000011	< 0.000011	< 0.000011	< 0.000011	< 0.000011
VOCs											
1,1,1-Trichloroethane	0.005	mg/l	NA	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
1,1,2,2-Tetrachloroethane	0.005	mg/l	NA	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002 J	< 0.0002
1,1,2-Trichloroethane	0.001	mg/l	NA	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025
1,1-Dichloroethane	0.005	mg/l	NA	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
1,1-Dichloroethene	0.005	mg/l	NA	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028
1,2,4-Trichlorobenzene	0.005	mg/l	NA	< 0.00015 J	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
1,2-Dibromo-3-chloropropane	0.00004	mg/l	NA	< 0.00081	< 0.00081	< 0.00081	< 0.00081	< 0.00081	< 0.00081	< 0.00081	< 0.00081
1,2-Dibromoethane	0.0000006	mg/l	NA	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023
1,2-Dichlorobenzene	0.003	mg/l	NA	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023
1,2-Dichloroethane	0.0006	mg/l	NA	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026
1,2-Dichloropropane	0.001	mg/l	NA	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
1,3-Dichlorobenzene	0.003	mg/l	NA	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
1,4-Dichlorobenzene	0.003	mg/l	NA	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
2-Butanone (MEK)	NS	mg/l	NA	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
2-Hexanone	NS	mg/l	NA	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
4-Methyl-2-pentanone(MIBK)	NS	mg/l	NA	< 0.00045	< 0.00045	< 0.00045	< 0.00045	< 0.00045	< 0.00045	< 0.00045	< 0.00045
Acetone	NS	mg/l	NA	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036
Benzene	0.001	mg/l	NA	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022
Bromodichloromethane	NS	mg/l	NA	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095
Bromoform	NS	mg/l	NA	< 0.00016 J	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016
Bromomethane	0.005	mg/l	NA	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025
Carbon disulfide	0.06	mg/l	NA	< 0.00017	< 0.00017	< 0.00017	< 0.00017	< 0.00017	< 0.00017	< 0.00017	< 0.00017
Carbon tetrachloride	0.005	mg/l	NA	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
Chlorobenzene	0.005	mg/l	NA	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Chloroethane	0.005	mg/l	NA	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025
Chloroform	0.007	mg/l	NA	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
Chloromethane	0.005	mg/l	NA	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027
cis-1,2-Dichloroethene	0.005	mg/l	NA	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022
cis-1,3-Dichloropropene	NS	mg/l	NA	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012
Cyclohexane	NS	mg/l	NA	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
Dibromochloromethane	NS	mg/l	NA	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
Dichlorodifluoromethane	0.005	mg/l	NA	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
Ethylbenzene	0.005	mg/l	NA	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Freon 113	0.005	mg/l	NA	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055
Isopropylbenzene	0.005	mg/l	NA	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Methyl Acetate	NS	mg/l	NA	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
Methyl Tert Butyl Ether	0.01	mg/l	NA	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Methylcyclohexane	NS	mg/l	NA	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
Methylene chloride	0.005	mg/l	NA	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Styrene	0.005	mg/l	NA	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
Tetrachloroethene	0.005	mg/l	NA	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
Toluene	0.005	mg/l	NA	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
trans-1,2-Dichloroethene	0.005	mg/l	NA	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
trans-1,3-Dichloropropene	NS	mg/l	NA	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
Trichloroethene	0.005	mg/l	NA	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
Trichlorofluoromethane	0.005	mg/l	NA	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Vinyl chloride	0.002	mg/l	NA	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Xylene (total)	0.005	mg/l	NA	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
Total TIC, Volatile	NS	mg/l	0	0	0	0.003 JN	0	0	0	0	0

Table 4A. Summary of Waste Water QA/QC Results, Operable Unit 1, Ramapo

Sample ID	NY TOGS Class		TB(061213)-WW	TB(061313)-WW	TB(061413)-WW	TB(061813)-WW	TB(062413)-WW	TB(071113)WW	TB(080613)-WW	TB(081913)-WW	TRIP BLANK-120513
Sample Date	GA GW Standards	Units	6/12/2013	6/13/2013	6/14/2013	6/18/2013	6/24/2013	7/11/2013	8/6/2013	8/19/2013	12/5/2013
SVOCs											
1,1'-Biphenyl	0.005	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	0.003	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-DIPHENYLDIAZINE	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	0.003	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	0.003	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	0.001	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	0.001	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	0.001	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	0.005	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	0.005	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	0.005	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	0.005	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	0.005	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-o-cresol	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methyl phenol	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	0.005	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	0.005	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	0.0075	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZIDINE	0.005	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZYL ALCOHOL	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	0.005	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	0.001	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	0.005	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	0.005	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	0.05	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.00004	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.0005	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	0.005	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4A. Summary of Waste Water QA/QC Results, Operable Unit 1, Ramapo

Sample ID	NY TOGS Class		TB(061213)-WW	TB(061313)-WW	TB(061413)-WW	TB(061813)-WW	TB(062413)-WW	TB(071113)WW	TB(080613)-WW	TB(081913)-WW	TRIP BLANK-120513
Sample Date	GA GW Standards	Units	6/12/2013	6/13/2013	6/14/2013	6/18/2013	6/24/2013	7/11/2013	8/6/2013	8/19/2013	12/5/2013
SVOCs continued											
Hexachloroethane	0.005	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
METHANAMINE, N-METHYL-N-NITROSO	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.0004	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	0.001	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	0.001	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total TIC, Semi-Volatile	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total TIC, Semi-Volatile	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs											
Aroclor 1016	0.00009	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	0.00009	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	0.00009	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	0.00009	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	0.00009	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	0.00009	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	0.00009	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals											
Arsenic	0.025	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.005	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	0.05	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	0.2	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	0.3	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.025	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	0.3	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.0007	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	0.1	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	0.01	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	0.05	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals											
Arsenic	0.025	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.005	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	0.05	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	0.2	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	0.3	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.025	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	0.3	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.0007	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	0.1	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	0.01	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	0.05	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other											
CHROMIUM (HEXAVALENT COMPOUNDS)	0.05	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids, Total Suspended	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA

- Notes:
- mg/L Milligrams per liter
 - < Not Detected
 - NA Not Analyzed
 - B Result is between the method detection limit and the reporting limit.
 - J Estimated Result

Table 5. Summary of Wastewater Disposition, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample Date	Method of Disposition	Volume (gallons)
3/15/2013	Dust Suppression	20,000
3/29/2013	Dust Suppression	30,000
4/18/2013	Dust Suppression	25,700
5/15/2013	Dust Suppression	30,000
6/3/2013	Dissipater Pad	20,000
6/7/2013	Dissipater Pad	20,000
6/12/2013	Dissipater Pad	20,000
6/13/2013	Dissipater Pad	20,000
6/14/2013	Dust Suppression	20,000
6/18/2013	Dust Suppression	20,000
6/24/2013	Dissipater Pad	20,000
7/3/2013	Dust Suppression	20,000
7/11/2013	Dust Suppression	20,000
8/6/2013	Dust Suppression	20,000
Total Volume of Treated Water (gallons)		305,700

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P1-2B (6.0-6.5) 2/21/2013	DUP (022113) 2/21/2013	PE-P1-EAST-1B (4.0-4.5) 4/30/2013	PE-P1-EAST-2B (8.0-8.5) 5/2/2013	PE-P1-EAST-3B (8.0-8.5) 5/6/2013
VOCs								
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.000093	< 0.0001	< 0.00012	< 0.00011	< 0.00012
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00012	< 0.00013	< 0.00014	< 0.00013	< 0.00016
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00015	< 0.00017	< 0.00019	< 0.00017	< 0.0002
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00012	< 0.00013	< 0.00015	< 0.00014	< 0.00016
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00023	< 0.00025	< 0.00028	< 0.00026	< 0.0003
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00012	< 0.00013	< 0.00015	< 0.00014	< 0.00016
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.00078	< 0.00086	< 0.00098	< 0.00089	< 0.001
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00011	< 0.00012	< 0.00014	< 0.00013	< 0.00015
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.00017	< 0.00018	< 0.00021	< 0.00019	< 0.00022
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00012	< 0.00013	< 0.00015	< 0.00014	< 0.00016
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00014	< 0.00015	< 0.00017	< 0.00015	< 0.00018
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.00016	< 0.00018	< 0.00021	< 0.00019	< 0.00022
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00015	< 0.00017	< 0.00019	< 0.00018	< 0.00021
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0021	< 0.0023	< 0.0026	< 0.0024	< 0.0028
2-Hexanone	NS	NS	mg/kg	< 0.00055	< 0.0006	< 0.00068	< 0.00062	< 0.00073
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.00066	< 0.00073	< 0.00082	< 0.00075	< 0.00088
Acetone	100	0.05	mg/kg	< 0.0015 J	< 0.0016 J	< 0.0019	< 0.0017	< 0.002
Benzene	4.8	0.06	mg/kg	< 0.0001	< 0.00011	< 0.00013	< 0.00012	< 0.00014
Bromodichloromethane	NS	NS	mg/kg	< 0.000092	< 0.0001	< 0.00012	< 0.00011	< 0.00012
Bromoform	NS	NS	mg/kg	< 0.00013	< 0.00015	< 0.00017	< 0.00015	< 0.00018
Bromomethane	NS	NS	mg/kg	< 0.00024	< 0.00026	< 0.0003	< 0.00027 J	< 0.00032 J
Carbon disulfide	NS	NS	mg/kg	< 0.0001	< 0.00011	< 0.00013	< 0.00012	< 0.00014
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00012	< 0.00013	< 0.00015	< 0.00013	< 0.00016
Chlorobenzene	100	1.1	mg/kg	< 0.000095	< 0.0001	< 0.00012	< 0.00011	< 0.00013
Chloroethane	NS	NS	mg/kg	< 0.0002	< 0.00022	< 0.00025	< 0.00023	< 0.00027
Chloroform	49	0.37	mg/kg	< 0.000072	< 0.00008	< 0.000091	< 0.000083	< 0.000097
Chloromethane	NS	NS	mg/kg	< 0.00016	< 0.00018	< 0.0002	< 0.00019	< 0.00022
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00016	< 0.00018	< 0.0002	< 0.00018	< 0.00022
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00012	< 0.00013	< 0.00015	< 0.00014	< 0.00016
Cyclohexane	NS	NS	mg/kg	< 0.00011	< 0.00012	< 0.00014	< 0.00012	< 0.00015
Dibromochloromethane	NS	NS	mg/kg	< 0.00014	< 0.00016	< 0.00018	< 0.00016	< 0.00019
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.0002	< 0.00022	< 0.00025	< 0.00023 J	< 0.00027
Ethylbenzene	41	1	mg/kg	< 0.00023	< 0.00025	< 0.00029	< 0.00026	< 0.00031
Freon 113	NS	NS	mg/kg	< 0.00038	< 0.00042	< 0.00047	< 0.00043 J	< 0.00051 J
Isopropylbenzene	NS	NS	mg/kg	< 0.000065	< 0.000072	< 0.000081	< 0.000074	< 0.000087
Methyl Acetate	NS	NS	mg/kg	< 0.0023	< 0.0025	< 0.0029	< 0.0026	< 0.0031
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00021	< 0.00023	< 0.00026	< 0.00024	< 0.00028
Methylcyclohexane	NS	NS	mg/kg	< 0.00015	< 0.00016	< 0.00019	< 0.00017	< 0.0002
Methylene chloride	100	0.05	mg/kg	< 0.0011	< 0.0012	0.0063	0.0019 J	0.003 J
Styrene	NS	NS	mg/kg	< 0.00008	< 0.000089	< 0.0001	< 0.000092	< 0.00011
Tetrachloroethene	19	1.3	mg/kg	< 0.00015	< 0.00017	< 0.00019	< 0.00017	< 0.0002
Toluene	100	0.7	mg/kg	< 0.000092	< 0.0001	< 0.00012	< 0.00011	< 0.00012
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00021	< 0.00023	< 0.00026	< 0.00024	< 0.00028
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00014	< 0.00015	< 0.00017	< 0.00016	< 0.00018
Trichloroethene	21	0.47	mg/kg	< 0.00015	< 0.00017	< 0.00019	< 0.00017	< 0.0002
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00026	< 0.00029	< 0.00033	< 0.0003	< 0.00035
Vinyl chloride	0.9	0.02	mg/kg	< 0.00013	< 0.00014	< 0.00016	< 0.00014	< 0.00017
Xylene (total)	100	1.6	mg/kg	< 0.00012	< 0.00013	< 0.00015	< 0.00014	< 0.00016
Total TIC, Volatile	NS	NS	mg/kg	0	0	0	0	0
SVOCs								
1,1'-Biphenyl	NS	NS	mg/kg	< 0.004 J	< 0.0037	< 0.0043	< 0.0042	< 0.0038
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.04 J	< 0.037	< 0.043	< 0.042	< 0.038
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.032 J	< 0.03	< 0.035	< 0.034	< 0.031
2,4-Dichlorophenol	NS	NS	mg/kg	< 0.055 J	< 0.051	< 0.06	< 0.058	< 0.053
2,4-Dimethylphenol	NS	NS	mg/kg	< 0.058 J	< 0.053	< 0.063	< 0.06	< 0.055

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID	375-6.8(b)	375-6.8(b)		PE-P1-2B (6.0-6.5)	DUP (022113)	PE-P1-EAST-1B (4.0-4.5)	PE-P1-EAST-2B (8.0-8.5)	PE-P1-EAST-3B (8.0-8.5)
Sample Date	NYS Restricted	NYS Protection		2/21/2013	2/21/2013	4/30/2013	5/2/2013	5/6/2013
SVOCs cont.								
2,4-Dinitrophenol	NS	NS	mg/kg	< 0.042 J	< 0.039	< 0.045 J	< 0.044 J	< 0.04
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.015 J	< 0.014	< 0.016	< 0.016 J	< 0.014
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.013 J	< 0.012	< 0.014	< 0.014 J	< 0.013
2-Chloronaphthalene	NS	NS	mg/kg	< 0.011 J	< 0.0098	< 0.012	< 0.011	< 0.01
2-Chlorophenol	NS	NS	mg/kg	< 0.035 J	< 0.032	< 0.038	< 0.036	< 0.033
2-Methylnaphthalene	NS	NS	mg/kg	< 0.019 J	< 0.018	< 0.021	< 0.02	< 0.018
2-Methylphenol	100	0.33	mg/kg	< 0.039 J	< 0.036	< 0.042	< 0.041	< 0.038
2-Nitroaniline	NS	NS	mg/kg	< 0.015 J	< 0.014	< 0.016 J	< 0.016	< 0.014
2-Nitrophenol	NS	NS	mg/kg	< 0.036 J	< 0.034	< 0.039 J	< 0.038	< 0.035
3&4-Methylphenol	NS	NS	mg/kg	< 0.044 J	< 0.04	< 0.047	< 0.046	< 0.042
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0087 J	< 0.0081	< 0.0095 J	< 0.0091	< 0.0084
3-Nitroaniline	NS	NS	mg/kg	< 0.014 J	< 0.013	< 0.015 J	< 0.014	< 0.013
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.042 J	< 0.039	< 0.045 J	< 0.044	< 0.04
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.012 J	< 0.012	< 0.014	< 0.013	< 0.012
4-Chloro-3-methyl phenol	NS	NS	mg/kg	< 0.034 J	< 0.032	< 0.037	< 0.036	< 0.033
4-Chloroaniline	NS	NS	mg/kg	< 0.011 J	< 0.01	< 0.012	< 0.011	< 0.011
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	< 0.01 J	< 0.0096	< 0.011	< 0.011	< 0.0099
4-Nitroaniline	NS	NS	mg/kg	< 0.013 J	< 0.012	< 0.015 J	< 0.014	< 0.013
4-Nitrophenol	NS	NS	mg/kg	< 0.058 J	< 0.054	< 0.063 J	< 0.061 J	< 0.056 J
Acenaphthene	100	98	mg/kg	< 0.01 J	< 0.0092	< 0.011	< 0.01	< 0.0095
Acenaphthylene	100	107	mg/kg	< 0.011 J	< 0.01	< 0.012	< 0.011	< 0.011
Acetophenone	NS	NS	mg/kg	< 0.0061 J	< 0.0056	< 0.0066	< 0.0063	< 0.0058 J
Anthracene	100	1,000	mg/kg	< 0.012 J	< 0.011	< 0.013	< 0.013	< 0.012
Atrazine	NS	NS	mg/kg	< 0.0068 J	< 0.0063	< 0.0073	< 0.0071	< 0.0065 J
Benzaldehyde	NS	NS	mg/kg	< 0.0079 J	< 0.0073	< 0.0086	< 0.0083	< 0.0076
Benzo(a)anthracene	1	1	mg/kg	< 0.011 J	< 0.01	< 0.012	< 0.012	< 0.011
Benzo(a)pyrene	1	22	mg/kg	< 0.011 J	< 0.0097	< 0.011	< 0.011	< 0.01
Benzo(b)fluoranthene	1	1.7	mg/kg	< 0.011 J	< 0.011	< 0.012	< 0.012	< 0.011
Benzo(g,h,i)perylene	100	1,000	mg/kg	< 0.013 J	< 0.012	< 0.014	< 0.013	< 0.012
Benzo(k)fluoranthene	3.9	1.7	mg/kg	< 0.013 J	< 0.012	< 0.014	< 0.014	< 0.012
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.014 J	< 0.013	< 0.015	< 0.015	< 0.013
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.01 J	< 0.0096	< 0.011	< 0.011	< 0.0099
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.01 J	< 0.0094	< 0.011	< 0.011	< 0.0098
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.03 J	< 0.028	< 0.033 J	< 0.032	< 0.029
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.02 J	< 0.018	< 0.022 J	< 0.021	< 0.019
Caprolactam	NS	NS	mg/kg	< 0.011 J	< 0.01	< 0.012	< 0.011	< 0.01
Carbazole	NS	NS	mg/kg	< 0.016 J	< 0.015	< 0.017	< 0.017	< 0.015
Chrysene	3.9	1	mg/kg	< 0.012 J	< 0.011	< 0.013	< 0.012	< 0.011
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.012 J	< 0.011	< 0.013	< 0.012	< 0.011
Dibenzofuran	59	210	mg/kg	< 0.01 J	< 0.0094	< 0.011	< 0.011	< 0.0098
Diethyl phthalate	NS	NS	mg/kg	< 0.012 J	< 0.011	< 0.013	< 0.012	< 0.011
Dimethyl phthalate	NS	NS	mg/kg	< 0.012 J	< 0.011	< 0.013	< 0.013	< 0.012
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0076 J	< 0.007	< 0.0083	< 0.008	< 0.0073
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.017 J	< 0.015	< 0.018	< 0.017	< 0.016
Fluoranthene	100	1,000	mg/kg	< 0.015 J	< 0.014	< 0.016	< 0.016	< 0.015
Fluorene	100	386	mg/kg	< 0.011 J	< 0.01	< 0.012	< 0.012	< 0.011
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.011 J	< 0.01	< 0.012	< 0.012	< 0.011
Hexachlorobutadiene	NS	NS	mg/kg	< 0.0096 J	< 0.0088	< 0.01	< 0.01 J	< 0.0092
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.035 J	< 0.032	< 0.038	< 0.037	< 0.034 J
Hexachloroethane	NS	NS	mg/kg	< 0.0096 J	< 0.0088	< 0.01	< 0.01	< 0.0092
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	< 0.012 J	< 0.011	< 0.013	< 0.012	< 0.011
Isophorone	NS	NS	mg/kg	< 0.0093 J	< 0.0085	< 0.01	< 0.0097	< 0.0089
Naphthalene	100	12	mg/kg	< 0.0094 J	< 0.0087	< 0.01	< 0.0098	< 0.009
Nitrobenzene	NS	NS	mg/kg	< 0.0099 J	< 0.0092	< 0.011	< 0.01	< 0.0095
SVOCs cont.								
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0084 J	< 0.0077	< 0.0091	< 0.0088	< 0.008
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.021 J	< 0.019	< 0.022	< 0.021	< 0.02
Pentachlorophenol	6.7	0.8	mg/kg	< 0.059 J	< 0.054	< 0.064	< 0.061	< 0.056 J
Phenanthrene	100	1,000	mg/kg	< 0.016 J	< 0.014	< 0.017	< 0.016	< 0.015
Phenol	100	0.33	mg/kg	< 0.036 J	< 0.033	< 0.039	< 0.038	< 0.035
Pyrene	100	1,000	mg/kg	< 0.013 J	< 0.012	< 0.014	< 0.014	< 0.013
Total TIC, Semi-Volatile	NS	NS	mg/kg	0	0	0	0	0.88 JN

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P1-2B (6.0-6.5) 2/21/2013	DUP (022113) 2/21/2013	PE-P1-EAST-1B (4.0-4.5) 4/30/2013	PE-P1-EAST-2B (8.0-8.5) 5/2/2013	PE-P1-EAST-3B (8.0-8.5) 5/6/2013
PCBs								
Aroclor 1016	NS	NS	mg/kg	< 0.0096	< 0.0084	< 0.0095	< 0.0092	< 0.0093
Aroclor 1221	NS	NS	mg/kg	< 0.022	< 0.019	< 0.022	< 0.021	< 0.021
Aroclor 1232	NS	NS	mg/kg	< 0.019	< 0.016	< 0.018	< 0.018	< 0.018
Aroclor 1242	NS	NS	mg/kg	< 0.012	< 0.01	< 0.012	< 0.011	< 0.011
Aroclor 1248	NS	NS	mg/kg	< 0.011	< 0.0098	< 0.011	< 0.011	< 0.011
Aroclor 1254	NS	NS	mg/kg	< 0.017	< 0.015	< 0.017	< 0.017	< 0.017
Aroclor 1260	NS	NS	mg/kg	< 0.012	< 0.011	< 0.012	< 0.012	< 0.012
Aroclor 1262	NS	NS	mg/kg	NA	NA	< 0.012	< 0.011	< 0.011
Aroclor 1268	NS	NS	mg/kg	NA	NA	< 0.011	< 0.01	< 0.01
Metals								
Aluminum	NS	NS	mg/kg	7860	12300	9540	8860	10700
Antimony	NS	NS	mg/kg	0.4 B	0.49 B	< 0.17	< 0.16	5.4
Arsenic	16	16	mg/kg	2.2	3.7	2.2	3.3	4.5
Barium	400	820	mg/kg	61.3	68.7	53.5	70.4	233
Beryllium	72	47	mg/kg	0.44	0.65	0.46	0.44	0.69
Cadmium	4.3	7.5	mg/kg	0.2 B	0.27 B	0.1 B	0.077 B	0.29 B
Calcium	NS	NS	mg/kg	1840	2000	4280	1930	2450
Chromium	NS	NS	mg/kg	17.3	19.4	21.8	21	27.4
Cobalt	NS	NS	mg/kg	5.5	8.8	7.4	7	7.4
Copper	270	1,720	mg/kg	10.9	20.6	9.1	15.2	18.5
Iron	NS	NS	mg/kg	17500	22100	16600	17200	21500
Lead	400	450	mg/kg	36.2	42.9	7.5	22.6	304
Magnesium	NS	NS	mg/kg	3450	3780	5390	3460	4650
Manganese	2,000	2,000	mg/kg	266	579	561	453	552
Mercury	0.81	0.73	mg/kg	< 0.016	< 0.017	< 0.016	< 0.017	< 0.015
Nickel	310	130	mg/kg	13.8	17.9	21.7	16	16
Potassium	NS	NS	mg/kg	729 B	1270	1500	935 B	1020 B
Selenium	180	4	mg/kg	< 0.25	< 0.24	0.33 B	< 0.26	1.7 B
Silver	180	8.3	mg/kg	0.25 B	0.27 B	0.44 J	0.45 J	< 0.069
Sodium	NS	NS	mg/kg	128 B	165 B	163 B	178 B	158 B
Thallium	NS	NS	mg/kg	< 0.23	< 0.22	< 0.24	< 0.24	< 0.24
Vanadium	NS	NS	mg/kg	28.4	34	29	27.4	36.4
Zinc	10,000	2,480	mg/kg	33.3	44.8	41.8	44.8	90.3
Other								
Solids, Percent	NS	NS	%	93.4	92.4	87.7	89.2	92.3

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use.
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater.

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P1-EAST-4B (5.0-5.5) 6/20/2013	PE-P1-EAST-5B (1.5-2.0) 6/20/2013	PE-P1-EAST-6B (2.0-2.5) 6/20/2013	PE-P1-EAST-7B (3.0-3.5) 6/21/2013	PE-P1-EAST-1SW (1.0-1.5) 4/30/2013
VOCs								
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.0001	< 0.00012	< 0.00012	< 0.00011 J	< 0.000098
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00013	< 0.00014	< 0.00016	< 0.00014	< 0.00012
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00017	< 0.00019	< 0.0002	< 0.00019	< 0.00016
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00013	< 0.00015	< 0.00016	< 0.00015	< 0.00013
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00025	< 0.00028	< 0.0003	< 0.00027	< 0.00024
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00014	< 0.00015	< 0.00016	< 0.00015	< 0.00013
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.00087	< 0.00098	< 0.001	< 0.00095	< 0.00082
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00012	< 0.00014	< 0.00015	< 0.00014	< 0.00012
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.00018	< 0.00021	< 0.00022	< 0.0002	< 0.00017
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00013	< 0.00015	< 0.00016	< 0.00014 J	< 0.00012
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00015	< 0.00017	< 0.00018	< 0.00016	< 0.00014
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.00018	< 0.00021	< 0.00022	< 0.0002	< 0.00017
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00017	< 0.00019	< 0.00021	< 0.00019	< 0.00016
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0023	< 0.0026	< 0.0028	< 0.0022	< 0.0022
2-Hexanone	NS	NS	mg/kg	< 0.00061	< 0.00068	< 0.00073	< 0.00067	< 0.00058
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.00073	< 0.00082	< 0.00088	< 0.0008	< 0.00069
Acetone	100	0.05	mg/kg	< 0.0016	< 0.0019	< 0.002	< 0.0018	< 0.0016
Benzene	4.8	0.06	mg/kg	< 0.00012	< 0.00013	< 0.00014	< 0.00013	< 0.00011
Bromodichloromethane	NS	NS	mg/kg	< 0.0001	< 0.00012	< 0.00012	< 0.00011	< 0.000097
Bromoform	NS	NS	mg/kg	< 0.00015	< 0.00017	< 0.00018	< 0.00016	< 0.00014
Bromomethane	NS	NS	mg/kg	< 0.00027	< 0.0003	< 0.00032	< 0.00029	< 0.00025
Carbon disulfide	NS	NS	mg/kg	< 0.00011	< 0.00013	< 0.00014	< 0.00013	< 0.00011
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00013	< 0.00015	< 0.00016	< 0.00014 J	< 0.00012
Chlorobenzene	100	1.1	mg/kg	< 0.00011	< 0.00012	< 0.00013	< 0.00012	< 0.0001
Chloroethane	NS	NS	mg/kg	< 0.00022	< 0.00025	< 0.00027	< 0.00024	< 0.00021
Chloroform	49	0.37	mg/kg	< 0.000081	< 0.000091	< 0.000097	< 0.000088	< 0.000076
Chloromethane	NS	NS	mg/kg	< 0.00018	< 0.0002	< 0.00022	< 0.0002	< 0.00017
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00018	< 0.0002	< 0.00022	< 0.0002	< 0.00017
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00014	< 0.00015	< 0.00016	< 0.00015	< 0.00013
Cyclohexane	NS	NS	mg/kg	< 0.00012	< 0.00014	< 0.00015	< 0.00013	< 0.00011
Dibromochloromethane	NS	NS	mg/kg	< 0.00016	< 0.00018	< 0.00019	< 0.00018	< 0.00015
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00022	< 0.00025	< 0.00027	< 0.00024	< 0.00021
Ethylbenzene	41	1	mg/kg	0.0012	< 0.00029	< 0.00031	< 0.00028	< 0.00024
Freon 113	NS	NS	mg/kg	< 0.00042	< 0.00047	< 0.00051	< 0.00046	< 0.0004
Isopropylbenzene	NS	NS	mg/kg	< 0.000072	< 0.000081	< 0.000087	< 0.000079	< 0.000069
Methyl Acetate	NS	NS	mg/kg	< 0.0025	< 0.0029	< 0.0031	< 0.0028	< 0.0024
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00023	< 0.00026	< 0.00028	< 0.00025	< 0.00022
Methylcyclohexane	NS	NS	mg/kg	< 0.00016	< 0.00019	< 0.0002	< 0.00018	< 0.00016
Methylene chloride	100	0.05	mg/kg	0.0029 J	0.0039 J	0.0103	0.0029 J	0.0053
Styrene	NS	NS	mg/kg	< 0.000089	< 0.0001	< 0.00011	< 0.000098	< 0.000085
Tetrachloroethene	19	1.3	mg/kg	< 0.00017	< 0.00019	< 0.0002	< 0.00018	< 0.00016
Toluene	100	0.7	mg/kg	0.00069 J	< 0.00012	< 0.00012	< 0.00011	< 0.000097
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00023	< 0.00026	< 0.00028	< 0.00025	< 0.00022
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00015	< 0.00017	< 0.00018	< 0.00017	< 0.00014
Trichloroethene	21	0.47	mg/kg	< 0.00017	< 0.00019	< 0.0002	< 0.00019	< 0.00016
Trichlorofluoromethane	NS	NS	mg/kg	0.0011 J	< 0.00033	< 0.00035	< 0.00032 J	< 0.00028
Vinyl chloride	0.9	0.02	mg/kg	< 0.00014	< 0.00016	< 0.00017	< 0.00015	< 0.00013
Xylene (total)	100	1.6	mg/kg	0.01	< 0.00015	< 0.00016	< 0.00015	< 0.00013
Total TIC, Volatile	NS	NS	mg/kg	0	0	0	0	0
SVOCs								
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0038	< 0.0088	< 0.0038	< 0.0077	< 0.0042
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.038	< 0.088 J	< 0.038	< 0.077	< 0.042
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.031 J	< 0.072 J	< 0.031 J	< 0.063	< 0.034
2,4-Dichlorophenol	NS	NS	mg/kg	< 0.053 J	< 0.12 J	< 0.052 J	< 0.11	< 0.058
2,4-Dimethylphenol	NS	NS	mg/kg	< 0.055	< 0.13	< 0.055	< 0.11	< 0.06

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID	375-6.8(b)	375-6.8(b)		PE-P1-EAST-4B (5.0-5.5)	PE-P1-EAST-5B (1.5-2.0)	PE-P1-EAST-6B (2.0-2.5)	PE-P1-EAST-7B (3.0-3.5)	PE-P1-EAST-1SW (1.0-1.5)
Sample Date	NYS Restricted	NYS Protection		6/20/2013	6/20/2013	6/20/2013	6/21/2013	4/30/2013
SVOCs cont.								
2,4-Dinitrophenol	NS	NS	mg/kg	< 0.04	< 0.093	< 0.04	< 0.081 J	< 0.044 J
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.014 J	< 0.033 J	< 0.014 J	< 0.029	< 0.016
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.013 J	< 0.029 J	< 0.012 J	< 0.025	< 0.014
2-Chloronaphthalene	NS	NS	mg/kg	< 0.01	< 0.024	< 0.01	< 0.021	< 0.011
2-Chlorophenol	NS	NS	mg/kg	< 0.033	< 0.077	< 0.033	< 0.067	< 0.036
2-Methylnaphthalene	NS	NS	mg/kg	< 0.018	< 0.042	< 0.018	< 0.037	< 0.02
2-Methylphenol	100	0.33	mg/kg	< 0.038	< 0.087	< 0.037	< 0.076	< 0.041
2-Nitroaniline	NS	NS	mg/kg	< 0.014 J	< 0.033 J	< 0.014 J	< 0.029	< 0.016 J
2-Nitrophenol	NS	NS	mg/kg	< 0.035 J	< 0.081 J	< 0.034 J	< 0.07	< 0.038 J
3&4-Methylphenol	NS	NS	mg/kg	< 0.042	< 0.097	< 0.041	< 0.084	< 0.045
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0084	< 0.019	< 0.0083	< 0.017	< 0.0091 J
3-Nitroaniline	NS	NS	mg/kg	< 0.013 J	< 0.03 J	< 0.013 J	< 0.027	< 0.014 J
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.04 J	< 0.093 J	< 0.04 J	< 0.081 J	< 0.044 J
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.012	< 0.028	< 0.012	< 0.024	< 0.013
4-Chloro-3-methyl phenol	NS	NS	mg/kg	< 0.033	< 0.076	< 0.032	< 0.066	< 0.036
4-Chloroaniline	NS	NS	mg/kg	< 0.011	< 0.024	< 0.01	< 0.021	< 0.011
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	< 0.0099	< 0.023	< 0.0098	< 0.02	< 0.011
4-Nitroaniline	NS	NS	mg/kg	< 0.013	< 0.03	< 0.013	< 0.026	< 0.014 J
4-Nitrophenol	NS	NS	mg/kg	< 0.056	< 0.13	< 0.055	< 0.11	< 0.06 J
Acenaphthene	100	98	mg/kg	< 0.0095	< 0.022	< 0.0094	< 0.019	< 0.01
Acenaphthylene	100	107	mg/kg	< 0.011	0.0367 J	< 0.01	< 0.021	< 0.011
Acetophenone	NS	NS	mg/kg	< 0.0058	< 0.013	< 0.0057	< 0.012 J	< 0.0063
Anthracene	100	1,000	mg/kg	< 0.012	0.0411 J	< 0.011	< 0.023	< 0.013
Atrazine	NS	NS	mg/kg	< 0.0065 J	< 0.015 J	< 0.0064 J	< 0.013 J	< 0.0071
Benzaldehyde	NS	NS	mg/kg	< 0.0076	< 0.018	< 0.0075	< 0.015 J	< 0.0082
Benzo(a)anthracene	1	1	mg/kg	< 0.011	0.16	< 0.011	0.0317 J	< 0.012
Benzo(a)pyrene	1	22	mg/kg	< 0.01	0.151	< 0.0099	0.0269 J	< 0.011
Benzo(b)fluoranthene	1	1.7	mg/kg	< 0.011 J	0.23 J	< 0.011 J	0.0363 J	< 0.012
Benzo(g,h,i)perylene	100	1,000	mg/kg	< 0.012	0.081	< 0.012	< 0.025	< 0.013
Benzo(k)fluoranthene	3.9	1.7	mg/kg	< 0.012	0.083	< 0.012	< 0.025	< 0.013
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.013	< 0.031	< 0.013	< 0.027	< 0.014
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.0099	< 0.023	< 0.0098	< 0.02	< 0.011
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.0098	< 0.023	< 0.0096	< 0.02	< 0.011
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.029	< 0.067	< 0.029	< 0.059	< 0.032 J
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.019	< 0.044	< 0.019	< 0.039	< 0.021 J
Caprolactam	NS	NS	mg/kg	< 0.01 J	< 0.024 J	< 0.01 J	< 0.021 J	< 0.011
Carbazole	NS	NS	mg/kg	< 0.015	< 0.035	< 0.015	< 0.031	< 0.017
Chrysene	3.9	1	mg/kg	< 0.011	0.205	< 0.011	0.0311 J	< 0.012
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.011	< 0.026	< 0.011	< 0.023	< 0.012
Dibenzofuran	59	210	mg/kg	< 0.0098	< 0.023	< 0.0096	< 0.02 J	< 0.011
Diethyl phthalate	NS	NS	mg/kg	< 0.011	< 0.026	< 0.011	< 0.023	< 0.012
Dimethyl phthalate	NS	NS	mg/kg	< 0.012	< 0.027	< 0.011	< 0.023	< 0.013
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0073 J	< 0.017 J	< 0.0072 J	< 0.015	< 0.0079
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.016 J	< 0.037 J	< 0.016 J	< 0.032 J	< 0.017
Fluoranthene	100	1,000	mg/kg	< 0.015	0.342	< 0.014	0.0608 J	0.0162 J
Fluorene	100	386	mg/kg	< 0.011	< 0.025	< 0.011	< 0.022	< 0.012
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.011	< 0.025	< 0.011	< 0.022	< 0.012
Hexachlorobutadiene	NS	NS	mg/kg	< 0.0091	< 0.021	< 0.009	< 0.018	< 0.01
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.034	< 0.078	< 0.033	< 0.068	< 0.037
Hexachloroethane	NS	NS	mg/kg	< 0.0091	< 0.021	< 0.009	< 0.018	< 0.01
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	< 0.011 J	0.0954 J	< 0.011 J	< 0.023	< 0.012
Isophorone	NS	NS	mg/kg	< 0.0089	< 0.02	< 0.0087	< 0.018	< 0.0096
Naphthalene	100	12	mg/kg	< 0.009	0.0806	< 0.0089	< 0.018	< 0.0098
Nitrobenzene	NS	NS	mg/kg	< 0.0095	< 0.022	< 0.0094	< 0.019	< 0.01
SVOCs cont.								
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.008	< 0.019	< 0.0079	< 0.016 J	< 0.0087
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.02	< 0.045	< 0.019	< 0.04	< 0.021
Pentachlorophenol	6.7	0.8	mg/kg	< 0.056 J	< 0.13 J	< 0.056 J	< 0.11	< 0.061
Phenanthrene	100	1,000	mg/kg	< 0.015	0.131	< 0.015	0.0312 J	< 0.016
Phenol	100	0.33	mg/kg	< 0.035	< 0.08	< 0.034	< 0.07	< 0.038
Pyrene	100	1,000	mg/kg	< 0.013	0.321	< 0.012	0.0523 J	0.0158 J
Total TIC, Semi-Volatile	NS	NS	mg/kg	2.7 JN	1.27 JN	0	0	0.32 JN

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P1-EAST-4B (5.0-5.5) 6/20/2013	PE-P1-EAST-5B (1.5-2.0) 6/20/2013	PE-P1-EAST-6B (2.0-2.5) 6/20/2013	PE-P1-EAST-7B (3.0-3.5) 6/21/2013	PE-P1-EAST-1SW (1.0-1.5) 4/30/2013
PCBs								
Aroclor 1016	NS	NS	mg/kg	< 0.0093	< 0.01	< 0.0085	< 0.0091	< 0.009
Aroclor 1221	NS	NS	mg/kg	< 0.021	< 0.024	< 0.02	< 0.021	< 0.021
Aroclor 1232	NS	NS	mg/kg	< 0.018	< 0.02	< 0.017	< 0.018	< 0.018
Aroclor 1242	NS	NS	mg/kg	< 0.011	< 0.012	< 0.01	< 0.011	< 0.011
Aroclor 1248	NS	NS	mg/kg	< 0.011	< 0.012	< 0.01	< 0.011	< 0.011
Aroclor 1254	NS	NS	mg/kg	< 0.017	< 0.018	< 0.015	< 0.016	< 0.016
Aroclor 1260	NS	NS	mg/kg	< 0.012	< 0.013	< 0.011	< 0.011	< 0.011
Aroclor 1262	NS	NS	mg/kg	< 0.011	< 0.012	< 0.01	< 0.011	< 0.011
Aroclor 1268	NS	NS	mg/kg	< 0.01	< 0.012	< 0.0096	< 0.01	< 0.01
Metals								
Aluminum	NS	NS	mg/kg	9020 J	14700 J	5950 J	9960	11900
Antimony	NS	NS	mg/kg	0.4 J	0.99 J	< 0.25 J	< 0.27	< 0.16
Arsenic	16	16	mg/kg	2.7	5.2	2.1	4	4.4
Barium	400	820	mg/kg	46.9 J	107 J	31.1 J	67.8	53.1
Beryllium	72	47	mg/kg	0.56	1.1	0.47	0.77	0.57
Cadmium	4.3	7.5	mg/kg	< 0.076	0.18 B	< 0.075	< 0.082	0.1 B
Calcium	NS	NS	mg/kg	1910 J	2870 J	1970 J	1800	1730
Chromium	NS	NS	mg/kg	20.5 J	25.3 J	12.8 J	19	17
Cobalt	NS	NS	mg/kg	8.8	9.3	4.7 B	6.3	8
Copper	270	1,720	mg/kg	17 J	28.2 J	9.9 J	19.6	19.8
Iron	NS	NS	mg/kg	19400 J	24200 J	15000 J	20900	20200
Lead	400	450	mg/kg	9.7	78.2	3.2	13.4	11.7
Magnesium	NS	NS	mg/kg	3710	3910	3190	3160	3360
Manganese	2,000	2,000	mg/kg	477 J	680 J	353 J	467	508
Mercury	0.81	0.73	mg/kg	0.016 B	0.072	0.0064 B	0.0093 B	0.035
Nickel	310	130	mg/kg	15.5	17.9	8.7	13.4	16.9
Potassium	NS	NS	mg/kg	877 B	1430	1190	1210	1160
Selenium	180	4	mg/kg	< 0.28	0.98 B	0.65 B	0.47 B	0.34 B
Silver	180	8.3	mg/kg	< 0.11	0.18 B	< 0.11	< 0.12	0.69 J
Sodium	NS	NS	mg/kg	212 B	201 B	148 B	154 B	158 B
Thallium	NS	NS	mg/kg	< 0.31	< 0.36	< 0.31	< 0.34	< 0.23
Vanadium	NS	NS	mg/kg	31.4 J	34.3 J	19.7 J	31.3	27.8
Zinc	10,000	2,480	mg/kg	43	74	21.7	41	42.8
Other								
Solids, Percent	NS	NS	%	89.9	82.9	96.5	88.2	91.6

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use.
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater.

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID	375-6.8(b)	375-6.8(b)		PE-P1-EAST-2SW (2.0-2.5)	PE-P1-EAST-3SW (3.0-3.5)	PE-P1-EAST-4SW (2.5-3.0)	DUP (061913)	PE-P1-EAST-5SW (0.5-1.0)
Sample Date	NYS Restricted	NYS Protection		4/30/2013	5/1/2013	6/19/2013	6/19/2013	6/20/2013
VOCs								
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00011	< 0.00013	< 0.00011	< 0.00011	< 0.00017
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00014	< 0.00016	< 0.00013	< 0.00014	< 0.00021
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00018	< 0.00021	< 0.00018	< 0.00018	< 0.00028
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00014	< 0.00016	< 0.00014	< 0.00014	< 0.00022
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00027	< 0.00031	< 0.00026	< 0.00027	< 0.00042
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00015	< 0.00017	< 0.00014	< 0.00014	< 0.00022
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.00093	< 0.0011	< 0.0009 J	< 0.00092 J	< 0.0014
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00013	< 0.00015	< 0.00013	< 0.00013	< 0.00021
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.0002	< 0.00023	< 0.00019	< 0.0002	< 0.00031
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00014	< 0.00016	< 0.00014	< 0.00014	< 0.00022
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00016	< 0.00018	< 0.00016	< 0.00016	< 0.00025
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.0002	< 0.00022	< 0.00019	< 0.00019	< 0.0003
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00018	< 0.00021	< 0.00018	< 0.00018	< 0.00028
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0025	< 0.0029	< 0.0024	< 0.0025	< 0.0039
2-Hexanone	NS	NS	mg/kg	< 0.00065	< 0.00075	< 0.00063	< 0.00065	< 0.001
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.00079	< 0.0009	< 0.00076	< 0.00078	< 0.0012
Acetone	100	0.05	mg/kg	< 0.0018	< 0.002	< 0.0017	< 0.0018	< 0.0027
Benzene	4.8	0.06	mg/kg	< 0.00012	< 0.00014	< 0.00012	< 0.00012	< 0.00019
Bromodichloromethane	NS	NS	mg/kg	< 0.00011	< 0.00013	< 0.00011	< 0.00011	< 0.00017
Bromoform	NS	NS	mg/kg	< 0.00016	< 0.00018	< 0.00015	< 0.00016	< 0.00024
Bromomethane	NS	NS	mg/kg	< 0.00029	< 0.00033	< 0.00028	< 0.00028	< 0.00044
Carbon disulfide	NS	NS	mg/kg	< 0.00012	< 0.00014	< 0.00012	< 0.00012	< 0.00019
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00014	< 0.00016	< 0.00013 J	< 0.00014 J	< 0.00022
Chlorobenzene	100	1.1	mg/kg	< 0.00011	< 0.00013	< 0.00011	< 0.00011	< 0.00017
Chloroethane	NS	NS	mg/kg	< 0.00024	< 0.00027	< 0.00023	< 0.00024	< 0.00037
Chloroform	49	0.37	mg/kg	< 0.000087	< 0.000099	< 0.000084	< 0.000086	< 0.00013
Chloromethane	NS	NS	mg/kg	< 0.0002	< 0.00022	< 0.00019	< 0.00019	< 0.0003
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00019	< 0.00022	< 0.00019	< 0.00019	< 0.0003
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00015	< 0.00017	< 0.00014	< 0.00014	< 0.00022
Cyclohexane	NS	NS	mg/kg	< 0.00013	< 0.00015	< 0.00013	< 0.00013	< 0.0002
Dibromochloromethane	NS	NS	mg/kg	< 0.00017	< 0.0002	< 0.00017	< 0.00017	< 0.00027
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00024	< 0.00027	< 0.00023	< 0.00024	< 0.00037
Ethylbenzene	41	1	mg/kg	< 0.00028	< 0.00032	< 0.00027	< 0.00027	< 0.00043
Freon 113	NS	NS	mg/kg	< 0.00045	< 0.00052 J	< 0.00044 J	< 0.00045 J	< 0.0007
Isopropylbenzene	NS	NS	mg/kg	< 0.000078	< 0.000089	< 0.000075	< 0.000077	< 0.00012
Methyl Acetate	NS	NS	mg/kg	< 0.0027	< 0.0031	< 0.0026	< 0.0027	< 0.0042
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00025	< 0.00028	< 0.00024	< 0.00024	< 0.00038
Methylcyclohexane	NS	NS	mg/kg	< 0.00018	< 0.0002	< 0.00017	< 0.00018	< 0.00027
Methylene chloride	100	0.05	mg/kg	0.0037 J	0.0045 J	0.0038 J	0.0046 J	< 0.0021
Styrene	NS	NS	mg/kg	< 0.000096	< 0.00011	< 0.000093	< 0.000095	< 0.00015
Tetrachloroethene	19	1.3	mg/kg	< 0.00018	< 0.00021	< 0.00017	< 0.00018	< 0.00028
Toluene	100	0.7	mg/kg	< 0.00011	< 0.00013	< 0.00011	< 0.00011	< 0.00017
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00025	< 0.00029	< 0.00024	< 0.00025	< 0.00038
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00016	< 0.00019	< 0.00016	< 0.00016	< 0.00025
Trichloroethene	21	0.47	mg/kg	< 0.00018	< 0.00021	< 0.00018	< 0.00018	< 0.00028
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00031	< 0.00036	< 0.0003	< 0.00031	< 0.00048
Vinyl chloride	0.9	0.02	mg/kg	< 0.00015	< 0.00017	< 0.00015	< 0.00015	< 0.00023
Xylene (total)	100	1.6	mg/kg	< 0.00015	< 0.00017	< 0.00014	< 0.00014	< 0.00022
Total TIC, Volatile	NS	NS	mg/kg	0	0	0.052 JN	0.0314 JN	0
SVOCs								
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0043	< 0.0046	< 0.004	< 0.0042	< 0.0057
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.043	< 0.046 J	< 0.04	< 0.042	< 0.057
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.034	< 0.037 J	< 0.033	< 0.034	< 0.046 J
2,4-Dichlorophenol	NS	NS	mg/kg	< 0.059	< 0.064	< 0.056	< 0.058	< 0.079 J
2,4-Dimethylphenol	NS	NS	mg/kg	< 0.062	< 0.067 J	< 0.058	< 0.06	< 0.083

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID	375-6.8(b)	375-6.8(b)		PE-P1-EAST-2SW (2.0-2.5)	PE-P1-EAST-3SW (3.0-3.5)	PE-P1-EAST-4SW (2.5-3.0)	DUP (061913)	PE-P1-EAST-5SW (0.5-1.0)
Sample Date	NYS Restricted	NYS Protection		4/30/2013	5/1/2013	6/19/2013	6/19/2013	6/20/2013
SVOCs cont.								
2,4-Dinitrophenol	NS	NS	mg/kg	< 0.045 J	< 0.048 J	< 0.042 J	< 0.044	< 0.06
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.016	< 0.017	< 0.015 J	< 0.016 J	< 0.022 J
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.014	< 0.015 J	< 0.013 J	< 0.014 J	< 0.019 J
2-Chloronaphthalene	NS	NS	mg/kg	< 0.011	< 0.012	< 0.011	< 0.011	< 0.015
2-Chlorophenol	NS	NS	mg/kg	< 0.037	< 0.04	< 0.035	< 0.036	< 0.05
2-Methylnaphthalene	NS	NS	mg/kg	< 0.02	< 0.022	< 0.019	0.0201 J	0.0307 J
2-Methylphenol	100	0.33	mg/kg	< 0.042	< 0.045	< 0.04	< 0.041	< 0.056
2-Nitroaniline	NS	NS	mg/kg	< 0.016 J	< 0.017 J	< 0.015	< 0.016	< 0.022 J
2-Nitrophenol	NS	NS	mg/kg	< 0.039 J	< 0.042	< 0.037 J	< 0.038 J	< 0.052 J
3&4-Methylphenol	NS	NS	mg/kg	< 0.047	< 0.05 J	< 0.044	< 0.045	< 0.063
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0093 J	< 0.01 J	< 0.0088	< 0.0091	< 0.013
3-Nitroaniline	NS	NS	mg/kg	< 0.015 J	< 0.016	< 0.014	< 0.014	< 0.02 J
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.045 J	< 0.048 J	< 0.042 J	< 0.044	< 0.06 J
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.013	< 0.014	< 0.013	< 0.013	< 0.018
4-Chloro-3-methyl phenol	NS	NS	mg/kg	< 0.037	< 0.04 J	< 0.035	< 0.036	< 0.049
4-Chloroaniline	NS	NS	mg/kg	< 0.012	< 0.013 J	< 0.011	< 0.011	< 0.016
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	< 0.011	< 0.012	< 0.01	< 0.011	< 0.015
4-Nitroaniline	NS	NS	mg/kg	< 0.014 J	< 0.015	< 0.014	< 0.014	< 0.019
4-Nitrophenol	NS	NS	mg/kg	< 0.062 J	< 0.067 J	< 0.059 J	< 0.06 J	< 0.083
Acenaphthene	100	98	mg/kg	< 0.011	< 0.012	< 0.01	< 0.01	0.058
Acenaphthylene	100	107	mg/kg	0.066	< 0.013	< 0.011	< 0.011	0.206
Acetophenone	NS	NS	mg/kg	< 0.0065	< 0.007	< 0.0061	< 0.0063	0.037 J
Anthracene	100	1,000	mg/kg	0.0706	< 0.014	< 0.012	< 0.013	0.29
Atrazine	NS	NS	mg/kg	< 0.0072	< 0.0078 J	< 0.0068	< 0.0071	< 0.0097 J
Benzaldehyde	NS	NS	mg/kg	< 0.0084	< 0.0091	< 0.0082 J	< 0.0082 J	< 0.011
Benzo(a)anthracene	1	1	mg/kg	0.254	< 0.013	0.0338 J	0.0419	1.02
Benzo(a)pyrene	1	22	mg/kg	0.235	< 0.012	0.0312 J	0.0397	1.02
Benzo(b)fluoranthene	1	1.7	mg/kg	0.256	< 0.013	0.0433	0.0544	1.46 J
Benzo(g,h,i)perylene	100	1,000	mg/kg	0.154	< 0.015	0.0163 J	0.0252 J	0.579
Benzo(k)fluoranthene	3.9	1.7	mg/kg	0.231	< 0.015 J	0.0146 J	0.0212 J	0.562
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.015	< 0.016	< 0.014	< 0.014	< 0.02
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.011	< 0.012	< 0.01	< 0.011	< 0.015
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.011	< 0.012	< 0.01	< 0.011	< 0.015
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	0.0391 J	0.0484 J	< 0.031	< 0.032	0.155
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.021 J	< 0.023 J	< 0.02	< 0.021	< 0.029
Caprolactam	NS	NS	mg/kg	< 0.012	< 0.013	< 0.011	< 0.011	< 0.016 J
Carbazole	NS	NS	mg/kg	0.0208 J	< 0.018	< 0.016	< 0.017	0.111
Chrysene	3.9	1	mg/kg	0.258	< 0.013	0.0347 J	0.0479	1.23
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	0.0573	< 0.014	< 0.012	< 0.012	0.164
Dibenzofuran	59	210	mg/kg	< 0.011	< 0.012	< 0.01	< 0.011	0.0343 J
Diethyl phthalate	NS	NS	mg/kg	< 0.012	< 0.014	< 0.012	< 0.012	< 0.017
Dimethyl phthalate	NS	NS	mg/kg	0.0386 J	< 0.014	< 0.012	< 0.013	< 0.017
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0081	< 0.0088 J	< 0.0077	< 0.0079	< 0.011 J
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.018	< 0.019 J	< 0.017 J	< 0.017 J	< 0.024 J
Fluoranthene	100	1,000	mg/kg	0.54	< 0.018	0.0581	0.0742	1.87
Fluorene	100	386	mg/kg	< 0.012	< 0.013	< 0.011	0.0268 J	0.0798
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.012	< 0.013	< 0.011	< 0.012	< 0.016
Hexachlorobutadiene	NS	NS	mg/kg	< 0.01	< 0.011 J	< 0.0097	< 0.0099	< 0.014
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.037	< 0.041	< 0.035 J	< 0.037 J	< 0.05
Hexachloroethane	NS	NS	mg/kg	< 0.01	< 0.011	< 0.0097	< 0.0099	< 0.014
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	0.152	< 0.014	0.0189 J	0.0258 J	0.65 J
Isophorone	NS	NS	mg/kg	< 0.0099	< 0.011	< 0.0093	< 0.0096	< 0.013
Naphthalene	100	12	mg/kg	< 0.01	< 0.011	0.0161 J	0.507 J	0.0293 J
Nitrobenzene	NS	NS	mg/kg	< 0.011	< 0.011	< 0.01	< 0.01	< 0.014
SVOCs cont.								
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0089	< 0.0097	< 0.0085	< 0.0087	< 0.012
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.022	< 0.024	< 0.021	< 0.021	< 0.029
Pentachlorophenol	6.7	0.8	mg/kg	< 0.063	< 0.068 J	< 0.059 J	< 0.061 J	< 0.084 J
Phenanthrene	100	1,000	mg/kg	0.244	< 0.018	0.0221 J	0.0452	0.915
Phenol	100	0.33	mg/kg	< 0.038	< 0.042	< 0.036	< 0.038	< 0.052
Pyrene	100	1,000	mg/kg	0.423	< 0.015	0.0544	0.0789	2.67
Total TIC, Semi-Volatile	NS	NS	mg/kg	10 JN	0	0.21 JN	0.81 JN	19.7 JN

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P1-EAST-2SW (2.0-2.5) 4/30/2013	PE-P1-EAST-3SW (3.0-3.5) 5/1/2013	PE-P1-EAST-4SW (2.5-3.0) 6/19/2013	DUP (061913) 6/19/2013	PE-P1-EAST-5SW (0.5-1.0) 6/20/2013
PCBs								
Aroclor 1016	NS	NS	mg/kg	< 0.0092	< 0.01	< 0.01	< 0.011	< 0.013
Aroclor 1221	NS	NS	mg/kg	< 0.021	< 0.024	< 0.023	< 0.024	< 0.03
Aroclor 1232	NS	NS	mg/kg	< 0.018	< 0.02	< 0.02	< 0.021	< 0.025
Aroclor 1242	NS	NS	mg/kg	< 0.011	< 0.013	< 0.012	< 0.013	< 0.016
Aroclor 1248	NS	NS	mg/kg	< 0.011	< 0.012	< 0.012	< 0.012	< 0.015
Aroclor 1254	NS	NS	mg/kg	< 0.017	< 0.019	< 0.018	< 0.019	< 0.023
Aroclor 1260	NS	NS	mg/kg	< 0.012	< 0.013	< 0.013	< 0.013	< 0.016
Aroclor 1262	NS	NS	mg/kg	< 0.011	< 0.013	< 0.012	< 0.013	< 0.016
Aroclor 1268	NS	NS	mg/kg	< 0.01	< 0.012	< 0.011	< 0.012	< 0.015
Metals								
Aluminum	NS	NS	mg/kg	11100	11200	11600	14200	13200 J
Antimony	NS	NS	mg/kg	0.42 B	0.8 B	0.63 B	0.61 B	1.6 J
Arsenic	16	16	mg/kg	4.4	3.7	4.2	4.7	6.3
Barium	400	820	mg/kg	114	47.8	80.2	101	110 J
Beryllium	72	47	mg/kg	0.58	0.65	0.61	0.74	1.3
Cadmium	4.3	7.5	mg/kg	0.15 B	0.029 B	0.13 B	0.1 B	0.7 B
Calcium	NS	NS	mg/kg	2400	1580	2430	2720	4150 J
Chromium	NS	NS	mg/kg	20.2	24.4	18.7	21.5	32 J
Cobalt	NS	NS	mg/kg	8	8.6	7.8	8.9	10.6
Copper	270	1,720	mg/kg	26.9	20	23.3	25.7	40 J
Iron	NS	NS	mg/kg	21400	26400	20800	22800	23500 J
Lead	400	450	mg/kg	93.2	9.6	58.4	67.8	113
Magnesium	NS	NS	mg/kg	3560	4240	3450	3740	3420
Manganese	2,000	2,000	mg/kg	485	696	439	468	1550 J
Mercury	0.81	0.73	mg/kg	0.062	0.033 B	0.024 B	0.036 B	0.26
Nickel	310	130	mg/kg	17.2	17.9	15.5	17.7	20.1
Potassium	NS	NS	mg/kg	1420	869 b	1430	1700	1030 B
Selenium	180	4	mg/kg	0.47 B	1.3 B	< 0.31	< 0.33	1.4 B
Silver	180	8.3	mg/kg	0.79	< 0.062	0.66	0.67	0.33 B
Sodium	NS	NS	mg/kg	200 B	146 B	219 B	248 B	188 B
Thallium	NS	NS	mg/kg	< 0.25	< 0.21	< 0.35	< 0.37	< 0.45
Vanadium	NS	NS	mg/kg	28.7	43.1	28.8	32.4	34.8 J
Zinc	10,000	2,480	mg/kg	56.4	51	51.2	49.7	159
Other								
Solids, Percent	NS	NS	%	88.3	80.2	82.3	81.7	64.4

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use.
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater.

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P1-EAST-5SW(0.5-1.0)A 7/11/2013	PE-P1-EAST-5SW(1.0-1.5)B 7/11/2013	PE-P1-EAST-5SW (0.5-1.0)C 7/18/2013	PE-P1-EAST-5SW (1.0-1.5)D 7/18/2013	PE-P1-EAST-5SW (0.5-1.0) E 7/22/2013
VOCs								
1,1,1-Trichloroethane	100	0.68	mg/kg	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	NS	NS	mg/kg	NA	NA	NA	NA	NA
1,1-Dichloroethane	26	0.27	mg/kg	NA	NA	NA	NA	NA
1,1-Dichloroethene	100	0.33	mg/kg	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NS	NS	mg/kg	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	NA	NA	NA	NA	NA
1,2-Dibromoethane	NS	NS	mg/kg	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	100	1.1	mg/kg	NA	NA	NA	NA	NA
1,2-Dichloroethane	3.1	0.02	mg/kg	NA	NA	NA	NA	NA
1,2-Dichloropropane	NS	NS	mg/kg	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	49	2.4	mg/kg	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	13	1.8	mg/kg	NA	NA	NA	NA	NA
2-Butanone (MEK)	100	0.12	mg/kg	NA	NA	NA	NA	NA
2-Hexanone	NS	NS	mg/kg	NA	NA	NA	NA	NA
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	NA	NA	NA	NA	NA
Acetone	100	0.05	mg/kg	NA	NA	NA	NA	NA
Benzene	4.8	0.06	mg/kg	NA	NA	NA	NA	NA
Bromodichloromethane	NS	NS	mg/kg	NA	NA	NA	NA	NA
Bromoform	NS	NS	mg/kg	NA	NA	NA	NA	NA
Bromomethane	NS	NS	mg/kg	NA	NA	NA	NA	NA
Carbon disulfide	NS	NS	mg/kg	NA	NA	NA	NA	NA
Carbon tetrachloride	2.4	0.76	mg/kg	NA	NA	NA	NA	NA
Chlorobenzene	100	1.1	mg/kg	NA	NA	NA	NA	NA
Chloroethane	NS	NS	mg/kg	NA	NA	NA	NA	NA
Chloroform	49	0.37	mg/kg	NA	NA	NA	NA	NA
Chloromethane	NS	NS	mg/kg	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	100	0.25	mg/kg	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	NS	NS	mg/kg	NA	NA	NA	NA	NA
Cyclohexane	NS	NS	mg/kg	NA	NA	NA	NA	NA
Dibromochloromethane	NS	NS	mg/kg	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NS	NS	mg/kg	NA	NA	NA	NA	NA
Ethylbenzene	41	1	mg/kg	NA	NA	NA	NA	NA
Freon 113	NS	NS	mg/kg	NA	NA	NA	NA	NA
Isopropylbenzene	NS	NS	mg/kg	NA	NA	NA	NA	NA
Methyl Acetate	NS	NS	mg/kg	NA	NA	NA	NA	NA
Methyl Tert Butyl Ether	100	0.93	mg/kg	NA	NA	NA	NA	NA
Methylcyclohexane	NS	NS	mg/kg	NA	NA	NA	NA	NA
Methylene chloride	100	0.05	mg/kg	NA	NA	NA	NA	NA
Styrene	NS	NS	mg/kg	NA	NA	NA	NA	NA
Tetrachloroethene	19	1.3	mg/kg	NA	NA	NA	NA	NA
Toluene	100	0.7	mg/kg	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	100	0.19	mg/kg	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	NS	NS	mg/kg	NA	NA	NA	NA	NA
Trichloroethene	21	0.47	mg/kg	NA	NA	NA	NA	NA
Trichlorofluoromethane	NS	NS	mg/kg	NA	NA	NA	NA	NA
Vinyl chloride	0.9	0.02	mg/kg	NA	NA	NA	NA	NA
Xylene (total)	100	1.6	mg/kg	NA	NA	NA	NA	NA
Total TIC, Volatile	NS	NS	mg/kg	0	0	0	0	0
SVOCs								
1,1'-Biphenyl	NS	NS	mg/kg	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NS	NS	mg/kg	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	NS	NS	mg/kg	NA	NA	NA	NA	NA
2,4-Dichlorophenol	NS	NS	mg/kg	NA	NA	NA	NA	NA
2,4-Dimethylphenol	NS	NS	mg/kg	NA	NA	NA	NA	NA

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID	375-6.8(b)	375-6.8(b)		PE-P1-EAST-5SW(0.5-1.0)A	PE-P1-EAST-5SW(1.0-1.5)B	PE-P1-EAST-5SW (0.5-1.0)C	PE-P1-EAST-5SW (1.0-1.5)D	PE-P1-EAST-5SW (0.5-1.0) E
Sample Date	NYS Restricted	NYS Protection		7/11/2013	7/11/2013	7/18/2013	7/18/2013	7/22/2013
SVOCs cont.								
2,4-Dinitrophenol	NS	NS	mg/kg	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	NS	NS	mg/kg	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	NS	NS	mg/kg	NA	NA	NA	NA	NA
2-Chloronaphthalene	NS	NS	mg/kg	NA	NA	NA	NA	NA
2-Chlorophenol	NS	NS	mg/kg	NA	NA	NA	NA	NA
2-Methylnaphthalene	NS	NS	mg/kg	NA	NA	NA	NA	NA
2-Methylphenol	100	0.33	mg/kg	NA	NA	NA	NA	NA
2-Nitroaniline	NS	NS	mg/kg	NA	NA	NA	NA	NA
2-Nitrophenol	NS	NS	mg/kg	NA	NA	NA	NA	NA
3&4-Methylphenol	NS	NS	mg/kg	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	NS	NS	mg/kg	NA	NA	NA	NA	NA
3-Nitroaniline	NS	NS	mg/kg	NA	NA	NA	NA	NA
4,6-Dinitro-o-cresol	NS	NS	mg/kg	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NS	NS	mg/kg	NA	NA	NA	NA	NA
4-Chloro-3-methyl phenol	NS	NS	mg/kg	NA	NA	NA	NA	NA
4-Chloroaniline	NS	NS	mg/kg	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	NA	NA	NA	NA	NA
4-Nitroaniline	NS	NS	mg/kg	NA	NA	NA	NA	NA
4-Nitrophenol	NS	NS	mg/kg	NA	NA	NA	NA	NA
Acenaphthene	100	98	mg/kg	0.0631	0.0743	0.0769	0.0768	0.0607
Acenaphthylene	100	107	mg/kg	0.147 J	0.133	0.166	0.0929	0.14
Acetophenone	NS	NS	mg/kg	NA	NA	NA	NA	NA
Anthracene	100	1,000	mg/kg	0.251	0.282	0.274	0.226	0.287
Atrazine	NS	NS	mg/kg	NA	NA	NA	NA	NA
Benzaldehyde	NS	NS	mg/kg	NA	NA	NA	NA	NA
Benzo(a)anthracene	1	1	mg/kg	0.767	0.968	0.883	0.795	0.94
Benzo(a)pyrene	1	22	mg/kg	0.852	1.09	0.837	0.796	0.99
Benzo(b)fluoranthene	1	1.7	mg/kg	1.09	1.26	1.19	0.989	1.32
Benzo(g,h,i)perylene	100	1,000	mg/kg	0.504	0.59	0.624	0.59	0.612
Benzo(k)fluoranthene	3.9	1.7	mg/kg	0.418 J	0.813	0.453	0.369	0.511
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	NS	NS	mg/kg	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NS	NS	mg/kg	NA	NA	NA	NA	NA
Caprolactam	NS	NS	mg/kg	NA	NA	NA	NA	NA
Carbazole	NS	NS	mg/kg	NA	NA	NA	NA	NA
Chrysene	3.9	1	mg/kg	0.896	1.06	1.12	1	1.09
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	0.147	0.135 J	0.194	0.155	0.164
Dibenzofuran	59	210	mg/kg	NA	NA	NA	NA	NA
Diethyl phthalate	NS	NS	mg/kg	NA	NA	NA	NA	NA
Dimethyl phthalate	NS	NS	mg/kg	NA	NA	NA	NA	NA
Di-n-butyl phthalate	NS	NS	mg/kg	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NS	NS	mg/kg	NA	NA	NA	NA	NA
Fluoranthene	100	1,000	mg/kg	1.44	2.33	1.57	1.49	1.98
Fluorene	100	386	mg/kg	0.0743	0.0904	0.09	0.0847	0.0783
Hexachlorobenzene	1.2	3.2	mg/kg	NA	NA	NA	NA	NA
Hexachlorobutadiene	NS	NS	mg/kg	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NS	NS	mg/kg	NA	NA	NA	NA	NA
Hexachloroethane	NS	NS	mg/kg	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	0.587	0.668	0.712	0.654	0.668
Isophorone	NS	NS	mg/kg	NA	NA	NA	NA	NA
Naphthalene	100	12	mg/kg	0.0249 J	0.0318 J	0.0289	0.0217	0.025 J
Nitrobenzene	NS	NS	mg/kg	NA	NA	NA	NA	NA
SVOCs cont.								
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NS	NS	mg/kg	NA	NA	NA	NA	NA
Pentachlorophenol	6.7	0.8	mg/kg	NA	NA	NA	NA	NA
Phenanthrene	100	1,000	mg/kg	0.841	1.04	0.928	1.01	0.915
Phenol	100	0.33	mg/kg	NA	NA	NA	NA	NA
Pyrene	100	1,000	mg/kg	1.51	1.62	1.59	1.57	1.68
Total TIC, Semi-Volatile	NS	NS	mg/kg	0	0	0	0	0

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P1-EAST-5SW(0.5-1.0)A 7/11/2013	PE-P1-EAST-5SW(1.0-1.5)B 7/11/2013	PE-P1-EAST-5SW (0.5-1.0)C 7/18/2013	PE-P1-EAST-5SW (1.0-1.5)D 7/18/2013	PE-P1-EAST-5SW (0.5-1.0) E 7/22/2013
PCBs								
Aroclor 1016	NS	NS	mg/kg	NA	NA	NA	NA	NA
Aroclor 1221	NS	NS	mg/kg	NA	NA	NA	NA	NA
Aroclor 1232	NS	NS	mg/kg	NA	NA	NA	NA	NA
Aroclor 1242	NS	NS	mg/kg	NA	NA	NA	NA	NA
Aroclor 1248	NS	NS	mg/kg	NA	NA	NA	NA	NA
Aroclor 1254	NS	NS	mg/kg	NA	NA	NA	NA	NA
Aroclor 1260	NS	NS	mg/kg	NA	NA	NA	NA	NA
Aroclor 1262	NS	NS	mg/kg	NA	NA	NA	NA	NA
Aroclor 1268	NS	NS	mg/kg	NA	NA	NA	NA	NA
Metals								
Aluminum	NS	NS	mg/kg	NA	NA	NA	NA	NA
Antimony	NS	NS	mg/kg	NA	NA	NA	NA	NA
Arsenic	16	16	mg/kg	NA	NA	NA	NA	NA
Barium	400	820	mg/kg	NA	NA	NA	NA	NA
Beryllium	72	47	mg/kg	NA	NA	NA	NA	NA
Cadmium	4.3	7.5	mg/kg	NA	NA	NA	NA	NA
Calcium	NS	NS	mg/kg	NA	NA	NA	NA	NA
Chromium	NS	NS	mg/kg	NA	NA	NA	NA	NA
Cobalt	NS	NS	mg/kg	NA	NA	NA	NA	NA
Copper	270	1,720	mg/kg	NA	NA	NA	NA	NA
Iron	NS	NS	mg/kg	NA	NA	NA	NA	NA
Lead	400	450	mg/kg	NA	NA	NA	NA	NA
Magnesium	NS	NS	mg/kg	NA	NA	NA	NA	NA
Manganese	2,000	2,000	mg/kg	NA	NA	NA	NA	NA
Mercury	0.81	0.73	mg/kg	NA	NA	NA	NA	NA
Nickel	310	130	mg/kg	NA	NA	NA	NA	NA
Potassium	NS	NS	mg/kg	NA	NA	NA	NA	NA
Selenium	180	4	mg/kg	NA	NA	NA	NA	NA
Silver	180	8.3	mg/kg	NA	NA	NA	NA	NA
Sodium	NS	NS	mg/kg	NA	NA	NA	NA	NA
Thallium	NS	NS	mg/kg	NA	NA	NA	NA	NA
Vanadium	NS	NS	mg/kg	NA	NA	NA	NA	NA
Zinc	10,000	2,480	mg/kg	NA	NA	NA	NA	NA
Other								
Solids, Percent	NS	NS	%	83.6	79.7	86	90.9	88.8

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use.
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater.

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID	375-6.8(b)	375-6.8(b)		PE-P1-EAST-5SW (1.0-1.5) F	PE-P1-EAST-6SW (0.5-1.0)	PE-P1-EAST-6SW(0.5-1.0)A	PE-P1-EAST-7SW (2.5-3.0)	PE-P1-EAST-8SW (2.5-3.0)
Sample Date	NYS Restricted	NYS Protection		7/22/2013	6/20/2013	7/11/2013	6/21/2013	6/21/2013
VOCs								
1,1,1-Trichloroethane	100	0.68	mg/kg	NA	< 0.00015	NA	< 0.00012 J	< 0.00014 J
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	NA	< 0.00019	NA	< 0.00015	< 0.00018
1,1,2-Trichloroethane	NS	NS	mg/kg	NA	< 0.00024	NA	< 0.00019	< 0.00023
1,1-Dichloroethane	26	0.27	mg/kg	NA	< 0.00019	NA	< 0.00015	< 0.00018
1,1-Dichloroethene	100	0.33	mg/kg	NA	< 0.00036	NA	< 0.00028	< 0.00034
1,2,4-Trichlorobenzene	NS	NS	mg/kg	NA	< 0.0002	NA	< 0.00015	< 0.00018
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	NA	< 0.0012	NA	< 0.00098	< 0.0012
1,2-Dibromoethane	NS	NS	mg/kg	NA	< 0.00018	NA	< 0.00014	< 0.00017
1,2-Dichlorobenzene	100	1.1	mg/kg	NA	< 0.00027	NA	< 0.00021	< 0.00025
1,2-Dichloroethane	3.1	0.02	mg/kg	NA	< 0.00019	NA	< 0.00015 J	< 0.00018 J
1,2-Dichloropropane	NS	NS	mg/kg	NA	< 0.00022	NA	< 0.00017	< 0.0002
1,3-Dichlorobenzene	49	2.4	mg/kg	NA	< 0.00026	NA	< 0.00021	< 0.00025
1,4-Dichlorobenzene	13	1.8	mg/kg	NA	< 0.00025	NA	< 0.00019	< 0.00023
2-Butanone (MEK)	100	0.12	mg/kg	NA	< 0.0034	NA	< 0.0026	< 0.0032
2-Hexanone	NS	NS	mg/kg	NA	< 0.00087	NA	< 0.00068	< 0.00083
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	NA	< 0.0011	NA	< 0.00083	< 0.001
Acetone	100	0.05	mg/kg	NA	< 0.0024	NA	< 0.0019	< 0.0022
Benzene	4.8	0.06	mg/kg	NA	< 0.00017	NA	< 0.00013	< 0.00016
Bromodichloromethane	NS	NS	mg/kg	NA	< 0.00015	NA	< 0.00012	< 0.00014
Bromoform	NS	NS	mg/kg	NA	< 0.00021	NA	< 0.00017	< 0.0002
Bromomethane	NS	NS	mg/kg	NA	< 0.00038	NA	< 0.0003	< 0.00036
Carbon disulfide	NS	NS	mg/kg	NA	< 0.00016	NA	< 0.00013	< 0.00016
Carbon tetrachloride	2.4	0.76	mg/kg	NA	< 0.00019	NA	< 0.00015 J	< 0.00018 J
Chlorobenzene	100	1.1	mg/kg	NA	< 0.00015	NA	< 0.00012	< 0.00014
Chloroethane	NS	NS	mg/kg	NA	< 0.00032	NA	< 0.00025	< 0.0003
Chloroform	49	0.37	mg/kg	NA	< 0.00012	NA	< 0.000091	< 0.00011
Chloromethane	NS	NS	mg/kg	NA	< 0.00026	NA	< 0.0002	< 0.00025
cis-1,2-Dichloroethene	100	0.25	mg/kg	NA	< 0.00026	NA	< 0.0002	< 0.00024
cis-1,3-Dichloropropene	NS	NS	mg/kg	NA	< 0.0002	NA	< 0.00015	< 0.00018
Cyclohexane	NS	NS	mg/kg	NA	< 0.00017	NA	< 0.00014	< 0.00016
Dibromochloromethane	NS	NS	mg/kg	NA	< 0.00023	NA	< 0.00018	< 0.00022
Dichlorodifluoromethane	NS	NS	mg/kg	NA	< 0.00032	NA	< 0.00025	< 0.0003
Ethylbenzene	41	1	mg/kg	NA	< 0.00037	NA	< 0.00029	< 0.00035
Freon 113	NS	NS	mg/kg	NA	< 0.0006	NA	< 0.00047	< 0.00057
Isopropylbenzene	NS	NS	mg/kg	NA	< 0.0001	NA	< 0.000082	< 0.000099
Methyl Acetate	NS	NS	mg/kg	NA	< 0.0036	NA	< 0.0029	< 0.0035
Methyl Tert Butyl Ether	100	0.93	mg/kg	NA	< 0.00033	NA	< 0.00026	< 0.00031
Methylcyclohexane	NS	NS	mg/kg	NA	< 0.00024	NA	< 0.00019	< 0.00022
Methylene chloride	100	0.05	mg/kg	NA	< 0.0018	NA	0.0046 J	0.0047 J
Styrene	NS	NS	mg/kg	NA	< 0.00013	NA	< 0.0001	< 0.00012
Tetrachloroethene	19	1.3	mg/kg	NA	< 0.00024	NA	< 0.00019	< 0.00023
Toluene	100	0.7	mg/kg	NA	< 0.00015	NA	< 0.00012	< 0.00014
trans-1,2-Dichloroethene	100	0.19	mg/kg	NA	< 0.00033	NA	< 0.00026	< 0.00032
trans-1,3-Dichloropropene	NS	NS	mg/kg	NA	< 0.00022	NA	< 0.00017	< 0.00021
Trichloroethene	21	0.47	mg/kg	NA	< 0.00024	NA	< 0.00019	< 0.00023
Trichlorofluoromethane	NS	NS	mg/kg	NA	< 0.00042	NA	< 0.00033 J	< 0.0004 J
Vinyl chloride	0.9	0.02	mg/kg	NA	< 0.0002	NA	< 0.00016	< 0.00019
Xylene (total)	100	1.6	mg/kg	NA	< 0.0002	NA	< 0.00015	< 0.00018
Total TIC, Volatile	NS	NS	mg/kg	0	0	0	0	0
SVOCs								
1,1'-Biphenyl	NS	NS	mg/kg	NA	< 0.0097	NA	< 0.0044	< 0.0051
2,4,5-Trichlorophenol	NS	NS	mg/kg	NA	< 0.097 J	NA	< 0.044	< 0.051
2,4,6-Trichlorophenol	NS	NS	mg/kg	NA	< 0.078 J	NA	< 0.036	< 0.041
2,4-Dichlorophenol	NS	NS	mg/kg	NA	< 0.13 J	NA	< 0.061	< 0.071
2,4-Dimethylphenol	NS	NS	mg/kg	NA	< 0.14	NA	< 0.064	< 0.074

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID	375-6.8(b)	375-6.8(b)		PE-P1-EAST-5SW (1.0-1.5) F	PE-P1-EAST-6SW (0.5-1.0)	PE-P1-EAST-6SW(0.5-1.0)A	PE-P1-EAST-7SW (2.5-3.0)	PE-P1-EAST-8SW (2.5-3.0)
Sample Date	NYS Restricted	NYS Protection		7/22/2013	6/20/2013	7/11/2013	6/21/2013	6/21/2013
SVOCs cont.								
2,4-Dinitrophenol	NS	NS	mg/kg	NA	< 0.1	NA	< 0.046 J	< 0.054 J
2,4-Dinitrotoluene	NS	NS	mg/kg	NA	< 0.036 J	NA	< 0.017	< 0.019
2,6-Dinitrotoluene	NS	NS	mg/kg	NA	< 0.032 J	NA	< 0.014	< 0.017
2-Chloronaphthalene	NS	NS	mg/kg	NA	< 0.026	NA	< 0.012	< 0.014
2-Chlorophenol	NS	NS	mg/kg	NA	< 0.084	NA	< 0.038	< 0.044
2-Methylnaphthalene	NS	NS	mg/kg	NA	< 0.047	NA	< 0.021	< 0.025
2-Methylphenol	100	0.33	mg/kg	NA	< 0.095	NA	< 0.043	< 0.05
2-Nitroaniline	NS	NS	mg/kg	NA	< 0.037 J	NA	< 0.017	< 0.019
2-Nitrophenol	NS	NS	mg/kg	NA	< 0.088 J	NA	< 0.04	< 0.047
3&4-Methylphenol	NS	NS	mg/kg	NA	< 0.11	NA	< 0.048	< 0.056
3,3'-Dichlorobenzidine	NS	NS	mg/kg	NA	< 0.021	NA	< 0.0097	< 0.011
3-Nitroaniline	NS	NS	mg/kg	NA	< 0.033 J	NA	< 0.015	< 0.018
4,6-Dinitro-o-cresol	NS	NS	mg/kg	NA	< 0.1 J	NA	< 0.046 J	< 0.054 J
4-Bromophenyl phenyl ether	NS	NS	mg/kg	NA	< 0.03	NA	< 0.014	< 0.016
4-Chloro-3-methyl phenol	NS	NS	mg/kg	NA	< 0.083	NA	< 0.038	< 0.044
4-Chloroaniline	NS	NS	mg/kg	NA	< 0.027	NA	< 0.012	< 0.014
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	NA	< 0.025	NA	< 0.011	< 0.013
4-Nitroaniline	NS	NS	mg/kg	NA	< 0.033	NA	< 0.015	< 0.017
4-Nitrophenol	NS	NS	mg/kg	NA	< 0.14	NA	< 0.064	< 0.074
Acenaphthene	100	98	mg/kg	0.0685	< 0.024	0.0327 J	< 0.011	< 0.013
Acenaphthylene	100	107	mg/kg	0.109	0.309	0.122	< 0.012	< 0.014
Acetophenone	NS	NS	mg/kg	NA	< 0.015	NA	< 0.0067 J	< 0.0077 J
Anthracene	100	1,000	mg/kg	0.245	0.34	0.177	< 0.013	< 0.015
Atrazine	NS	NS	mg/kg	NA	< 0.016 J	NA	< 0.0075 J	< 0.0087 J
Benzaldehyde	NS	NS	mg/kg	NA	< 0.019	NA	< 0.0087 J	< 0.01 J
Benzo(a)anthracene	1	1	mg/kg	0.81	1.11	0.701	0.0135 J	0.0605
Benzo(a)pyrene	1	22	mg/kg	0.844	1.1	0.782	< 0.012	0.0709
Benzo(b)fluoranthene	1	1.7	mg/kg	1.09	1.77 J	0.817	0.018 J	0.0882
Benzo(g,h,i)perylene	100	1,000	mg/kg	0.506	0.693	0.472	< 0.014	0.0484
Benzo(k)fluoranthene	3.9	1.7	mg/kg	0.391	0.69	0.726	< 0.014	0.033 J
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	NA	< 0.034	NA	< 0.015	< 0.018
bis(2-Chloroethyl)ether	NS	NS	mg/kg	NA	< 0.025	NA	< 0.011	< 0.013
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	NA	< 0.025	NA	< 0.011	< 0.013
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	NA	0.13 J	NA	< 0.034	< 0.039
Butyl benzyl phthalate	NS	NS	mg/kg	NA	< 0.048	NA	< 0.022	< 0.025
Caprolactam	NS	NS	mg/kg	NA	< 0.026 J	NA	< 0.012	< 0.014
Carbazole	NS	NS	mg/kg	NA	0.0882 J	NA	< 0.018	< 0.02
Chrysene	3.9	1	mg/kg	0.92	1.26	0.762	0.0153 J	0.0702
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	0.134	0.185	0.12 J	< 0.013	< 0.015
Dibenzofuran	59	210	mg/kg	NA	< 0.025	NA	< 0.011 J	< 0.013 J
Diethyl phthalate	NS	NS	mg/kg	NA	< 0.028	NA	< 0.013	< 0.015
Dimethyl phthalate	NS	NS	mg/kg	NA	< 0.029	NA	< 0.013	< 0.015
Di-n-butyl phthalate	NS	NS	mg/kg	NA	< 0.019 J	NA	< 0.0084	< 0.0098
Di-n-octyl phthalate	NS	NS	mg/kg	NA	< 0.041 J	NA	< 0.019 J	< 0.021 J
Fluoranthene	100	1,000	mg/kg	1.8	1.89	1.54	0.0233 J	0.11
Fluorene	100	386	mg/kg	0.0763	0.0404 J	0.0456	< 0.012	< 0.014
Hexachlorobenzene	1.2	3.2	mg/kg	NA	< 0.027	NA	< 0.012	< 0.014
Hexachlorobutadiene	NS	NS	mg/kg	NA	< 0.023	NA	< 0.011	< 0.012
Hexachlorocyclopentadiene	NS	NS	mg/kg	NA	< 0.085	NA	< 0.039	< 0.045
Hexachloroethane	NS	NS	mg/kg	NA	< 0.023	NA	< 0.011	< 0.012
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	0.565	0.791 J	0.494	< 0.013	0.0554
Isophorone	NS	NS	mg/kg	NA	< 0.022	NA	< 0.01	< 0.012
Naphthalene	100	12	mg/kg	0.0218 J	0.0977	0.0152 J	< 0.01	< 0.012
Nitrobenzene	NS	NS	mg/kg	NA	< 0.024	NA	< 0.011	< 0.013
SVOCs cont.								
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	NA	< 0.02	NA	< 0.0093 J	< 0.011 J
N-Nitrosodiphenylamine	NS	NS	mg/kg	NA	< 0.05	NA	< 0.023	< 0.026
Pentachlorophenol	6.7	0.8	mg/kg	NA	< 0.14 J	NA	< 0.065	< 0.075
Phenanthrene	100	1,000	mg/kg	0.932	0.511	0.59	< 0.017	0.0342 J
Phenol	100	0.33	mg/kg	NA	< 0.088	NA	< 0.04	< 0.046
Pyrene	100	1,000	mg/kg	1.49	2.26	1.14	0.0215 J	0.104
Total TIC, Semi-Volatile	NS	NS	mg/kg	0	7.92 JN	0	0.19 JN	0

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P1-EAST-5SW (1.0-1.5) F 7/22/2013	PE-P1-EAST-6SW (0.5-1.0) 6/20/2013	PE-P1-EAST-6SW(0.5-1.0)A 7/11/2013	PE-P1-EAST-7SW (2.5-3.0) 6/21/2013	PE-P1-EAST-8SW (2.5-3.0) 6/21/2013
PCBs								
Aroclor 1016	NS	NS	mg/kg	NA	< 0.012	NA	< 0.0092	< 0.011
Aroclor 1221	NS	NS	mg/kg	NA	< 0.027	NA	< 0.021	< 0.026
Aroclor 1232	NS	NS	mg/kg	NA	< 0.023	NA	< 0.018	< 0.022
Aroclor 1242	NS	NS	mg/kg	NA	< 0.014	NA	< 0.011	< 0.014
Aroclor 1248	NS	NS	mg/kg	NA	< 0.014	NA	< 0.011	< 0.013
Aroclor 1254	NS	NS	mg/kg	NA	< 0.021	NA	< 0.017	< 0.02
Aroclor 1260	NS	NS	mg/kg	NA	< 0.015	NA	< 0.012	< 0.014
Aroclor 1262	NS	NS	mg/kg	NA	< 0.014	NA	< 0.011	< 0.014
Aroclor 1268	NS	NS	mg/kg	NA	< 0.013	NA	< 0.01	< 0.013
Metals								
Aluminum	NS	NS	mg/kg	NA	11000 J	NA	8780	24800
Antimony	NS	NS	mg/kg	NA	1.3 J	NA	0.32 B	< 0.32
Arsenic	16	16	mg/kg	NA	5.5	NA	4.4	9.1
Barium	400	820	mg/kg	NA	81.1 J	NA	37.4	135
Beryllium	72	47	mg/kg	NA	1	NA	0.66	1.8
Cadmium	4.3	7.5	mg/kg	NA	0.39 B	NA	< 0.078	< 0.097
Calcium	NS	NS	mg/kg	NA	3470 J	NA	1790	3420
Chromium	NS	NS	mg/kg	NA	25 J	NA	17.5	36
Cobalt	NS	NS	mg/kg	NA	8.9	NA	5.9	10.9
Copper	270	1,720	mg/kg	NA	33.3 J	NA	16.8	47.8
Iron	NS	NS	mg/kg	NA	21400 J	NA	20300	37400
Lead	400	450	mg/kg	NA	85.1	NA	20.6	26.7
Magnesium	NS	NS	mg/kg	NA	3120	NA	2600	5750
Manganese	2,000	2,000	mg/kg	NA	987 J	NA	474	733
Mercury	0.81	0.73	mg/kg	NA	0.22	NA	0.029 B	0.1
Nickel	310	130	mg/kg	NA	16.6	NA	12.5	27.6
Potassium	NS	NS	mg/kg	NA	1040 B	NA	729 B	2510
Selenium	180	4	mg/kg	NA	1.3 B	NA	0.74 B	0.6 B
Silver	180	8.3	mg/kg	NA	0.19 B	NA	< 0.11	< 0.14
Sodium	NS	NS	mg/kg	NA	162 B	NA	116 B	278 B
Thallium	NS	NS	mg/kg	NA	< 0.39	NA	< 0.32	< 0.4
Vanadium	NS	NS	mg/kg	NA	31.3 J	NA	26.4	46.5
Zinc	10,000	2,480	mg/kg	NA	109	NA	40.5	79.9
Other								
Solids, Percent	NS	NS	%	90.6	72.7	76	87.4	75.3

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use.
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater.

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P1-WEST-1B(5.0) 3/28/2013	PE-P1-WEST-2B (5.0-5.5) 4/1/2013	PE-P1-WEST-3B (5.0-5.5) 4/1/2013	PE-P1-WEST-4B (5.0-5.5) 4/3/2013	PE-P1-WEST-5B (5.0-5.5) 4/3/2013
VOCs								
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.0001	< 0.00012	< 0.00011	< 0.00011	< 0.00013
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00013	< 0.00015	< 0.00014	< 0.00014	< 0.00016
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00017	< 0.0002	< 0.00018	< 0.00018	< 0.00021
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00013	< 0.00016	< 0.00014	< 0.00014	< 0.00017
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00025	< 0.00029	< 0.00027	< 0.00026	< 0.00032
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00013	< 0.00016	< 0.00014	< 0.00014	< 0.00017
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.00086	< 0.001	< 0.00093	< 0.00091	< 0.0011
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00012	< 0.00014	< 0.00013	< 0.00013	< 0.00016
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.00018	< 0.00021	< 0.0002	< 0.00019	< 0.00023
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00013	< 0.00015	< 0.00014	< 0.00014	< 0.00017
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00015	< 0.00017	< 0.00016	< 0.00016	< 0.00019
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.00018	< 0.00021	< 0.00019	< 0.00019	< 0.00023
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00017	< 0.0002	< 0.00018	< 0.00018	< 0.00022
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0023	< 0.0027	< 0.0025	< 0.0024	< 0.0029
2-Hexanone	NS	NS	mg/kg	< 0.0006 J	< 0.0007	< 0.00065	< 0.00064	< 0.00077
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.00073 J	< 0.00085	< 0.00078	< 0.00077	< 0.00092
Acetone	100	0.05	mg/kg	< 0.0016	< 0.0019	< 0.0018	< 0.0017	< 0.0021
Benzene	4.8	0.06	mg/kg	< 0.00012	< 0.00013	< 0.00012	< 0.00012	< 0.00015
Bromodichloromethane	NS	NS	mg/kg	< 0.0001	< 0.00012	< 0.00011	< 0.00011	< 0.00013
Bromoform	NS	NS	mg/kg	< 0.00015	< 0.00017	< 0.00016	< 0.00015	< 0.00019
Bromomethane	NS	NS	mg/kg	< 0.00026	< 0.00031	< 0.00028	< 0.00028	< 0.00034
Carbon disulfide	NS	NS	mg/kg	< 0.00011	< 0.00013	< 0.00012	< 0.00012	< 0.00014
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00013	< 0.00015	< 0.00014	< 0.00014	< 0.00016
Chlorobenzene	100	1.1	mg/kg	< 0.0001	< 0.00012	< 0.00011	< 0.00011	< 0.00013
Chloroethane	NS	NS	mg/kg	< 0.00022	< 0.00026	< 0.00024	< 0.00023	< 0.00028
Chloroform	49	0.37	mg/kg	< 0.00008	< 0.000094	< 0.000086	< 0.000084	< 0.0001
Chloromethane	NS	NS	mg/kg	< 0.00018	< 0.00021	< 0.00019	< 0.00019	< 0.00023
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00018	< 0.00021	< 0.00019	< 0.00019	< 0.00023
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00013	< 0.00016	< 0.00014	< 0.00014	< 0.00017
Cyclohexane	NS	NS	mg/kg	< 0.00012	< 0.00014	< 0.00013	< 0.00013	< 0.00015
Dibromochloromethane	NS	NS	mg/kg	< 0.00016	< 0.00019	< 0.00017	< 0.00017	< 0.0002
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00022	< 0.00026 J	< 0.00024 J	< 0.00023	< 0.00028
Ethylbenzene	41	1	mg/kg	< 0.00025	< 0.0003	< 0.00027	< 0.00027	< 0.00032
Freon 113	NS	NS	mg/kg	< 0.00042	< 0.00049	< 0.00045	< 0.00044	< 0.00053
Isopropylbenzene	NS	NS	mg/kg	< 0.000072	< 0.000084	< 0.000077	< 0.000076	< 0.000091
Methyl Acetate	NS	NS	mg/kg	< 0.0025 J	< 0.0029	< 0.0027	< 0.0027	< 0.0032
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00023	< 0.00027	< 0.00024	< 0.00024	< 0.00029
Methylcyclohexane	NS	NS	mg/kg	< 0.00016	< 0.00019	< 0.00018	< 0.00017	< 0.00021
Methylene chloride	100	0.05	mg/kg	0.002 J	0.003 J	0.0101	0.0034 J	0.0032 J
Styrene	NS	NS	mg/kg	< 0.000089	< 0.0001	< 0.000096	< 0.000094	< 0.00011
Tetrachloroethene	19	1.3	mg/kg	< 0.00017	< 0.00019	< 0.00018	< 0.00018	< 0.00021
Toluene	100	0.7	mg/kg	< 0.0001	< 0.00012	< 0.00011	< 0.00011	< 0.00013
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00023	< 0.00027	< 0.00025	< 0.00024	< 0.00029
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00015	< 0.00018	< 0.00016	< 0.00016	< 0.00019
Trichloroethene	21	0.47	mg/kg	< 0.00017	< 0.0002	< 0.00018	< 0.00018	< 0.00021
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00029	< 0.00034	< 0.00031	< 0.0003	< 0.00037
Vinyl chloride	0.9	0.02	mg/kg	< 0.00014	< 0.00016	< 0.00015	< 0.00015	< 0.00018
Xylene (total)	100	1.6	mg/kg	< 0.00013	< 0.00016	< 0.00014	0.00028 J	< 0.00017
Total TIC, Volatile	NS	NS	mg/kg	0	0	0	0	0
SVOCs								
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0037	< 0.0037	< 0.0039	< 0.0042	< 0.0043
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.037	< 0.037	< 0.039	< 0.042	< 0.043
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.03	< 0.03	< 0.031	< 0.034	< 0.035
2,4-Dichlorophenol	NS	NS	mg/kg	< 0.052	< 0.051	< 0.054	< 0.058	< 0.06
2,4-Dimethylphenol	NS	NS	mg/kg	< 0.054 J	< 0.053	< 0.056	< 0.061	< 0.062

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID	375-6.8(b)	375-6.8(b)		PE-P1-WEST-1B(5.0)	PE-P1-WEST-2B (5.0-5.5)	PE-P1-WEST-3B (5.0-5.5)	PE-P1-WEST-4B (5.0-5.5)	PE-P1-WEST-5B (5.0-5.5)
Sample Date	NYS Restricted	NYS Protection		3/28/2013	4/1/2013	4/1/2013	4/3/2013	4/3/2013
SVOCs cont.								
2,4-Dinitrophenol	NS	NS	mg/kg	< 0.039	< 0.038	< 0.041	< 0.044	< 0.045
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.014	< 0.014	< 0.015	< 0.016	< 0.016
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.012	< 0.012	< 0.013	< 0.014	< 0.014
2-Chloronaphthalene	NS	NS	mg/kg	< 0.0099	< 0.0098	< 0.01	< 0.011	< 0.012
2-Chlorophenol	NS	NS	mg/kg	< 0.032	< 0.032	< 0.034	< 0.036	< 0.038
2-Methylnaphthalene	NS	NS	mg/kg	< 0.018	< 0.018	< 0.019	< 0.02	< 0.021
2-Methylphenol	100	0.33	mg/kg	< 0.037	< 0.036	< 0.038	< 0.041	< 0.042
2-Nitroaniline	NS	NS	mg/kg	< 0.014	< 0.014	< 0.015	< 0.016	< 0.016
2-Nitrophenol	NS	NS	mg/kg	< 0.034	< 0.033	< 0.035	< 0.038	< 0.039
3&4-Methylphenol	NS	NS	mg/kg	< 0.041	< 0.04	< 0.042	< 0.046	< 0.047
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0081	< 0.008	< 0.0085	< 0.0091	< 0.0094
3-Nitroaniline	NS	NS	mg/kg	< 0.013	< 0.013	< 0.013	< 0.014	< 0.015
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.039	< 0.038 J	< 0.041 J	< 0.044	< 0.045
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.012	< 0.011	< 0.012	< 0.013	< 0.013
4-Chloro-3-methyl phenol	NS	NS	mg/kg	< 0.032	< 0.032	< 0.033	< 0.036	< 0.037
4-Chloroaniline	NS	NS	mg/kg	< 0.01	< 0.01	< 0.011	< 0.012	< 0.012
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	< 0.0096	< 0.0095	< 0.01	< 0.011	< 0.011
4-Nitroaniline	NS	NS	mg/kg	< 0.012	< 0.012	< 0.013	< 0.014	< 0.014
4-Nitrophenol	NS	NS	mg/kg	< 0.054	< 0.053 J	< 0.057 J	< 0.061	< 0.063
Acenaphthene	100	98	mg/kg	< 0.0093	< 0.0091	< 0.0097	< 0.01	< 0.011
Acenaphthylene	100	107	mg/kg	< 0.01	< 0.01	< 0.011	< 0.012	< 0.012
Acetophenone	NS	NS	mg/kg	< 0.0056	< 0.0056	< 0.0059	< 0.0063	< 0.0065
Anthracene	100	1,000	mg/kg	< 0.011	< 0.011	< 0.012	< 0.013	< 0.013
Atrazine	NS	NS	mg/kg	< 0.0063	< 0.0062	< 0.0066	< 0.0071	< 0.0073
Benzaldehyde	NS	NS	mg/kg	< 0.0074	< 0.0073 J	< 0.0077 J	< 0.0083	< 0.0085
Benzo(a)anthracene	1	1	mg/kg	< 0.01	< 0.01	< 0.011	< 0.012	< 0.012
Benzo(a)pyrene	1	22	mg/kg	< 0.0098	< 0.0096	< 0.01	< 0.011	< 0.011
Benzo(b)fluoranthene	1	1.7	mg/kg	< 0.011	< 0.011	< 0.011	< 0.012	< 0.012
Benzo(g,h,i)perylene	100	1,000	mg/kg	< 0.012	< 0.012	< 0.012	< 0.013	< 0.014
Benzo(k)fluoranthene	3.9	1.7	mg/kg	< 0.012	< 0.012	< 0.013	< 0.014	< 0.014
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.013	< 0.013	< 0.014	< 0.015	< 0.015
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.0096	< 0.0095	< 0.01	< 0.011	< 0.011
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.0095	< 0.0094	< 0.0099	< 0.011	< 0.011
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.028	< 0.028	< 0.03	< 0.032	< 0.033
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.019	< 0.018	< 0.019	< 0.021	< 0.022
Caprolactam	NS	NS	mg/kg	< 0.01	< 0.0099	< 0.011	< 0.011	< 0.012
Carbazole	NS	NS	mg/kg	< 0.015	< 0.015	< 0.015	< 0.017	< 0.017
Chrysene	3.9	1	mg/kg	< 0.011	< 0.011	< 0.011	< 0.012	< 0.013
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.011	< 0.011	< 0.011	< 0.012	< 0.013
Dibenzofuran	59	210	mg/kg	< 0.0095	< 0.0094	< 0.0099	< 0.011	< 0.011
Diethyl phthalate	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	< 0.012	< 0.013
Dimethyl phthalate	NS	NS	mg/kg	< 0.011	< 0.011	< 0.012	< 0.013	< 0.013
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0071	< 0.007	< 0.0074	< 0.008	< 0.0083
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.016	< 0.015 J	< 0.016 J	< 0.018	< 0.018
Fluoranthene	100	1,000	mg/kg	< 0.014	< 0.014	< 0.015	< 0.016	< 0.016
Fluorene	100	386	mg/kg	< 0.011	< 0.01	< 0.011	< 0.012	< 0.012
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.01	< 0.01	< 0.011	< 0.012	< 0.012
Hexachlorobutadiene	NS	NS	mg/kg	< 0.0089	< 0.0088	< 0.0093	< 0.01	< 0.01
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.033	< 0.032 J	< 0.034 J	< 0.037	< 0.038
Hexachloroethane	NS	NS	mg/kg	< 0.0089	< 0.0088	< 0.0093	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	< 0.011	< 0.011	< 0.012	< 0.012	< 0.013
Isophorone	NS	NS	mg/kg	< 0.0086	< 0.0085	< 0.009	< 0.0097	< 0.01
Naphthalene	100	12	mg/kg	< 0.0087	< 0.0086	< 0.0091	< 0.0098	< 0.01
Nitrobenzene	NS	NS	mg/kg	< 0.0093	< 0.0091	< 0.0097	< 0.01	< 0.011
SVOCs cont.								
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0078	< 0.0077	< 0.0082	< 0.0088	< 0.0091
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.019	< 0.019	< 0.02	< 0.022	< 0.022
Pentachlorophenol	6.7	0.8	mg/kg	< 0.055	< 0.054	< 0.057	< 0.062	< 0.064
Phenanthrene	100	1,000	mg/kg	< 0.015	< 0.014	< 0.015	< 0.016	< 0.017
Phenol	100	0.33	mg/kg	< 0.034	< 0.033	< 0.035	< 0.038	< 0.039
Pyrene	100	1,000	mg/kg	< 0.012	< 0.012	< 0.013	< 0.014	< 0.014
Total TIC, Semi-Volatile	NS	NS	mg/kg	0.18 JN	3.82 JN	1.72 JN	0	0

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P1-WEST-1B(5.0) 3/28/2013	PE-P1-WEST-2B (5.0-5.5) 4/1/2013	PE-P1-WEST-3B (5.0-5.5) 4/1/2013	PE-P1-WEST-4B (5.0-5.5) 4/3/2013	PE-P1-WEST-5B (5.0-5.5) 4/3/2013
PCBs								
Aroclor 1016	NS	NS	mg/kg	< 0.0097	< 0.01	< 0.01	< 0.0095	< 0.01
Aroclor 1221	NS	NS	mg/kg	< 0.022	< 0.023	< 0.023	< 0.022	< 0.023
Aroclor 1232	NS	NS	mg/kg	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019
Aroclor 1242	NS	NS	mg/kg	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Aroclor 1248	NS	NS	mg/kg	< 0.011	< 0.012	< 0.012	< 0.011	< 0.012
Aroclor 1254	NS	NS	mg/kg	< 0.017	< 0.018	< 0.018	< 0.017	< 0.018
Aroclor 1260	NS	NS	mg/kg	< 0.012	< 0.013	< 0.013	< 0.012	< 0.013
Aroclor 1262	NS	NS	mg/kg	NA	NA	NA	NA	NA
Aroclor 1268	NS	NS	mg/kg	NA	NA	NA	NA	NA
Metals								
Aluminum	NS	NS	mg/kg	16000	10700	11600	15800 J	12600 J
Antimony	NS	NS	mg/kg	1.1 B	0.26 B	0.55 B	0.93 BJ	0.9 BJ
Arsenic	16	16	mg/kg	5	1.5 B	4.2	3.7	6.5
Barium	400	820	mg/kg	44.8	34.3	38.4	41.3	43.7
Beryllium	72	47	mg/kg	< 0.8 UB	0.49	0.61	0.84	1
Cadmium	4.3	7.5	mg/kg	< 0.56 UB	< 0.59 UB	< 0.58 UB	< 0.55 UB	< 0.03
Calcium	NS	NS	mg/kg	778	954	1060	2090	1130
Chromium	NS	NS	mg/kg	33.6	16.9	19.6	43.8	31.6
Cobalt	NS	NS	mg/kg	11.1	5.3 B	5.7 B	7.9	11.4
Copper	270	1,720	mg/kg	22.8	6.5	8.2	11.3	5.6
Iron	NS	NS	mg/kg	25200	13100	13500	34100	47500
Lead	400	450	mg/kg	12.2	3.7	5.8	4.5	3.5
Magnesium	NS	NS	mg/kg	7400	2760	2870	2850 J	2880 J
Manganese	2,000	2,000	mg/kg	1430	102	90.4	450 J	384 J
Mercury	0.81	0.73	mg/kg	0.023 B	< 0.017	0.017 B	0.028 B	< 0.018
Nickel	310	130	mg/kg	43.4	10.5	12.5	13.4	11
Potassium	NS	NS	mg/kg	970 B	480 B	549 B	476 B	570 B
Selenium	180	4	mg/kg	0.58 B	0.34 B	2.3	0.87 B	1.2 B
Silver	180	8.3	mg/kg	0.25 B	0.49 B	0.58	0.27 BJ	0.3 BJ
Sodium	NS	NS	mg/kg	64.7 B	169 B	99.2 B	< 1100 UB	< 1200 UB
Thallium	NS	NS	mg/kg	< 0.49	< 0.26	< 0.25	< 0.24	0.46 B
Vanadium	NS	NS	mg/kg	34.2	26.1	29.2	78.6	67.6
Zinc	10,000	2,480	mg/kg	61.6	31.6	37.1	33.3 J	37.4 J
Other								
Solids, Percent	NS	NS	%	89.2	86.6	85.7	87.3	84.6

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use.
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater.

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P1-WEST-6B(7.0-7.5) 4/4/2013	PE-P1-WEST-7B (7.0-7.5) 4/24/2013	PE-P1-WEST-8B(7.0-7.5) 4/29/2013	PE-P1-WEST-9B (4.5-5.0) 5/30/2013	PE-P1-WEST-10B (5.0-5.5) 5/30/2013
VOCs								
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.000093	< 0.00012	< 0.00011 J	< 0.00012	< 0.00011
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00012	< 0.00014	< 0.00014 J	< 0.00014	< 0.00014
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00015	< 0.00019	< 0.00019	< 0.00019	< 0.00019
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00012	< 0.00015	< 0.00015 J	< 0.00015	< 0.00015
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00023	< 0.00028	< 0.00027	< 0.00028	< 0.00027
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00012	< 0.00015	< 0.00015 J	< 0.00015	< 0.00015
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.00078	< 0.00097	< 0.00095	< 0.00097 J	< 0.00095 J
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00011	< 0.00014	< 0.00014	< 0.00014	< 0.00014
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.00017	< 0.00021	< 0.0002 J	< 0.00021	< 0.0002
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00012	< 0.00015	< 0.00014 J	< 0.00015	< 0.00014
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00014	< 0.00017	< 0.00016 J	< 0.00017	< 0.00016
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.00016	< 0.0002	< 0.0002 J	< 0.0002	< 0.0002
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00015	< 0.00019	< 0.00019 J	< 0.00019	< 0.00019
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0021	< 0.0026	0.0093 J	< 0.0026 J	< 0.0025 J
2-Hexanone	NS	NS	mg/kg	< 0.00055	< 0.00068	< 0.00066	< 0.00068 J	< 0.00066 J
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.00066	< 0.00082	0.0147 J	< 0.00082 J	< 0.0008 J
Acetone	100	0.05	mg/kg	< 0.0015	< 0.0015	0.02 J	< 0.0018	< 0.0018
Benzene	4.8	0.06	mg/kg	< 0.0001	< 0.00013	0.003	< 0.00013	< 0.00013
Bromodichloromethane	NS	NS	mg/kg	< 0.000092	< 0.00011	< 0.00011 J	< 0.00011	< 0.00011
Bromoform	NS	NS	mg/kg	< 0.00013	< 0.00016	< 0.00016 J	< 0.00016	< 0.00016
Bromomethane	NS	NS	mg/kg	< 0.00024	< 0.0003	< 0.00029	< 0.0003	< 0.00029
Carbon disulfide	NS	NS	mg/kg	< 0.0001	< 0.00013	< 0.00012	< 0.00013	< 0.00012
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00012	< 0.00014	< 0.00014 J	< 0.00014	< 0.00014
Chlorobenzene	100	1.1	mg/kg	< 0.000095	< 0.00012	< 0.00011 J	< 0.00012	< 0.00011
Chloroethane	NS	NS	mg/kg	< 0.0002	< 0.00025	< 0.00024	< 0.00025	< 0.00024
Chloroform	49	0.37	mg/kg	< 0.000073	< 0.00009	< 0.000088 J	< 0.00009	< 0.000088
Chloromethane	NS	NS	mg/kg	< 0.00016	< 0.0002	< 0.0002	< 0.0002	< 0.0002
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00016	< 0.0002	< 0.00019 J	< 0.0002	< 0.00019
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00012	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Cyclohexane	NS	NS	mg/kg	< 0.00011	< 0.00014	0.0016 J	< 0.00013	< 0.00013
Dibromochloromethane	NS	NS	mg/kg	< 0.00014	< 0.00018	< 0.00017 J	< 0.00018	< 0.00017
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.0002	< 0.00025	< 0.00024 J	< 0.00025	< 0.00024
Ethylbenzene	41	1	mg/kg	0.0011	0.0075	0.126 J	< 0.00029	< 0.00028
Freon 113	NS	NS	mg/kg	< 0.00038	< 0.00047	< 0.00046	< 0.00047	< 0.00046
Isopropylbenzene	NS	NS	mg/kg	0.0018 J	0.0054	0.0794 J	< 0.000081	< 0.000079
Methyl Acetate	NS	NS	mg/kg	< 0.0023	< 0.0028	< 0.0028 J	< 0.0028	< 0.0028
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00021	< 0.00026	< 0.00025	< 0.00026	< 0.00025
Methylcyclohexane	NS	NS	mg/kg	< 0.00015	0.00081 J	0.0054 J	< 0.00018	< 0.00018
Methylene chloride	100	0.05	mg/kg	0.0015 J	0.0058 J	< 0.0014	0.0051 J	0.0048 J
Styrene	NS	NS	mg/kg	< 0.000081	< 0.0001	< 0.000098 J	< 0.0001	< 0.000098
Tetrachloroethene	19	1.3	mg/kg	< 0.00015	< 0.00019	< 0.00018 J	< 0.00019	< 0.00018
Toluene	100	0.7	mg/kg	0.00046 J	0.00041 J	0.0551 J	< 0.00011	< 0.00011
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00021	< 0.00026	< 0.00025	< 0.00026	< 0.00025
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00014	< 0.00017	< 0.00016 J	< 0.00017	< 0.00016
Trichloroethene	21	0.47	mg/kg	< 0.00015	< 0.00019	< 0.00019	< 0.00019	< 0.00019
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00026	< 0.00032	< 0.00032	< 0.00032	< 0.00032
Vinyl chloride	0.9	0.02	mg/kg	< 0.00013	< 0.00016	< 0.00015	< 0.00016	< 0.00015
Xylene (total)	100	1.6	mg/kg	0.0084	0.0314	1.03	< 0.00015	< 0.00015
Total TIC, Volatile	NS	NS	mg/kg	0.0133 J	0.101 JN	0.51 JN	0	0
SVOCs								
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0044	< 0.0042	< 0.0038	< 0.0039	< 0.0041
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.044 J	< 0.042	< 0.038	< 0.039	< 0.041
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.035 J	< 0.034	< 0.031	< 0.032	< 0.033
2,4-Dichlorophenol	NS	NS	mg/kg	< 0.06 J	< 0.058	< 0.053	< 0.054	< 0.057
2,4-Dimethylphenol	NS	NS	mg/kg	< 0.063	< 0.061	< 0.055	< 0.057	< 0.059

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P1-WEST-6B(7.0-7.5) 4/4/2013	PE-P1-WEST-7B (7.0-7.5) 4/24/2013	PE-P1-WEST-8B(7.0-7.5) 4/29/2013	PE-P1-WEST-9B (4.5-5.0) 5/30/2013	PE-P1-WEST-10B (5.0-5.5) 5/30/2013
SVOCs cont.								
2,4-Dinitrophenol	NS	NS	mg/kg	< 0.046	< 0.044 J	< 0.04	< 0.041 J	< 0.043 J
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.016 J	< 0.016 J	< 0.014 J	< 0.015 J	< 0.015 J
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.014	< 0.014 J	< 0.012	< 0.013 J	< 0.013 J
2-Chloronaphthalene	NS	NS	mg/kg	< 0.012	< 0.011	< 0.01	< 0.01	< 0.011
2-Chlorophenol	NS	NS	mg/kg	< 0.038	< 0.037	< 0.033	< 0.034	< 0.035
2-Methylnaphthalene	NS	NS	mg/kg	< 0.021	< 0.02	< 0.018	< 0.019	< 0.02
2-Methylphenol	100	0.33	mg/kg	< 0.043	< 0.041	< 0.037	< 0.038	< 0.04
2-Nitroaniline	NS	NS	mg/kg	< 0.017 J	< 0.016	< 0.014	< 0.015 J	< 0.015 J
2-Nitrophenol	NS	NS	mg/kg	< 0.04 J	< 0.038	< 0.035 J	< 0.036 J	< 0.037 J
3&4-Methylphenol	NS	NS	mg/kg	< 0.048	< 0.046	< 0.042	< 0.043	< 0.045
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0095	< 0.0092	R	< 0.0086	< 0.0089
3-Nitroaniline	NS	NS	mg/kg	< 0.015	< 0.015	< 0.013 J	< 0.013	< 0.014
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.046	< 0.044	< 0.04	< 0.041 J	< 0.043 J
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.014	< 0.013	< 0.012 J	< 0.012	< 0.013
4-Chloro-3-methyl phenol	NS	NS	mg/kg	< 0.038 J	< 0.036	< 0.033	< 0.034	< 0.035
4-Chloroaniline	NS	NS	mg/kg	< 0.012	< 0.012	< 0.01 J	< 0.011	< 0.011
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	< 0.011 J	< 0.011	< 0.0099	< 0.01	< 0.011
4-Nitroaniline	NS	NS	mg/kg	< 0.015	< 0.014	< 0.013 J	< 0.013	< 0.014
4-Nitrophenol	NS	NS	mg/kg	< 0.063	< 0.061 J	< 0.055	< 0.057 J	< 0.059 J
Acenaphthene	100	98	mg/kg	< 0.011	< 0.011	< 0.0095	< 0.0098	< 0.01
Acenaphthylene	100	107	mg/kg	< 0.012	< 0.012	< 0.01	< 0.011	< 0.011
Acetophenone	NS	NS	mg/kg	< 0.0066	< 0.0064	< 0.0058	< 0.0059	< 0.0062
Anthracene	100	1,000	mg/kg	< 0.013	< 0.013	< 0.011	< 0.012	< 0.012
Atrazine	NS	NS	mg/kg	< 0.0074	< 0.0072	< 0.0065	< 0.0066 J	< 0.0069 J
Benzaldehyde	NS	NS	mg/kg	< 0.0086	< 0.0084	< 0.0075	< 0.0078 J	< 0.0081 J
Benzo(a)anthracene	1	1	mg/kg	< 0.012	< 0.012	< 0.011	< 0.011	< 0.011
Benzo(a)pyrene	1	22	mg/kg	< 0.011	< 0.011	< 0.01	< 0.01	< 0.011
Benzo(b)fluoranthene	1	1.7	mg/kg	< 0.013 J	< 0.012	< 0.011	< 0.011	< 0.012
Benzo(g,h,i)perylene	100	1,000	mg/kg	< 0.014	< 0.014	< 0.012	< 0.013	< 0.013
Benzo(k)fluoranthene	3.9	1.7	mg/kg	< 0.014	< 0.014	< 0.012	< 0.013	< 0.013
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.015	< 0.015	< 0.013	< 0.014	< 0.014
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.011	< 0.011	< 0.0099	< 0.01	< 0.011
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.011	< 0.011	< 0.0097	< 0.01 J	< 0.01 J
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.033	< 0.032	< 0.029 J	< 0.03 J	< 0.031 J
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.022	< 0.021	< 0.019	< 0.02	< 0.02
Caprolactam	NS	NS	mg/kg	< 0.012	< 0.011	< 0.01	< 0.011	< 0.011
Carbazole	NS	NS	mg/kg	< 0.017	< 0.017	< 0.015 J	< 0.016	< 0.016
Chrysene	3.9	1	mg/kg	< 0.013	< 0.012	< 0.011	< 0.011	< 0.012
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.013 J	< 0.012	< 0.011	< 0.011	< 0.012
Dibenzofuran	59	210	mg/kg	< 0.011	< 0.011	< 0.0097	< 0.01	< 0.01
Diethyl phthalate	NS	NS	mg/kg	< 0.013	< 0.012	< 0.011	< 0.011	< 0.012
Dimethyl phthalate	NS	NS	mg/kg	< 0.013	< 0.013	< 0.012	< 0.012	< 0.012
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0083	< 0.0081	< 0.0073 J	< 0.0075	< 0.0078
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.018 J	< 0.018	< 0.016	< 0.016 J	< 0.017 J
Fluoranthene	100	1,000	mg/kg	< 0.017	< 0.016	< 0.014	< 0.015	< 0.015
Fluorene	100	386	mg/kg	< 0.012	< 0.012	< 0.011	< 0.011	< 0.012
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.012	< 0.012	< 0.011 J	< 0.011	< 0.011
Hexachlorobutadiene	NS	NS	mg/kg	< 0.01	< 0.01	< 0.0091 J	< 0.0094	< 0.0098
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.038	< 0.037	< 0.033 J	< 0.034 J	< 0.036 J
Hexachloroethane	NS	NS	mg/kg	< 0.01	< 0.01	< 0.0091	< 0.0094	< 0.0098
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	< 0.013	< 0.013	< 0.011 J	< 0.012	< 0.012
Isophorone	NS	NS	mg/kg	< 0.01	< 0.0098	< 0.0088	< 0.0091	< 0.0095
Naphthalene	100	12	mg/kg	< 0.01	< 0.0099	< 0.0089	< 0.0092	< 0.0096
Nitrobenzene	NS	NS	mg/kg	< 0.011	< 0.01	< 0.0095	< 0.0097	< 0.01
SVOCs cont.								
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0092	< 0.0089	< 0.008	< 0.0082 J	< 0.0086 J
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.022	< 0.022	< 0.02	< 0.02	< 0.021
Pentachlorophenol	6.7	0.8	mg/kg	< 0.064	< 0.062	< 0.056 J	< 0.058 J	< 0.06 J
Phenanthrene	100	1,000	mg/kg	< 0.017	< 0.017	< 0.015	< 0.015	< 0.016
Phenol	100	0.33	mg/kg	< 0.039	< 0.038	< 0.034	< 0.035	< 0.037
Pyrene	100	1,000	mg/kg	< 0.014	< 0.014	< 0.013	< 0.013	< 0.013
Total TIC, Semi-Volatile	NS	NS	mg/kg	1.16 J	0	0.84 JN	0	0.18 JN

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P1-WEST-6B(7.0-7.5) 4/4/2013	PE-P1-WEST-7B (7.0-7.5) 4/24/2013	PE-P1-WEST-8B(7.0-7.5) 4/29/2013	PE-P1-WEST-9B (4.5-5.0) 5/30/2013	PE-P1-WEST-10B (5.0-5.5) 5/30/2013
PCBs								
Aroclor 1016	NS	NS	mg/kg	< 0.0091 J	< 0.0093	< 0.0097	< 0.0083	< 0.0091
Aroclor 1221	NS	NS	mg/kg	< 0.021 J	< 0.022	< 0.022	< 0.019	< 0.021
Aroclor 1232	NS	NS	mg/kg	< 0.018 J	< 0.018	< 0.019	< 0.016	< 0.018
Aroclor 1242	NS	NS	mg/kg	< 0.011	< 0.011	< 0.012	< 0.01	< 0.011
Aroclor 1248	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	< 0.0097	< 0.011
Aroclor 1254	NS	NS	mg/kg	< 0.016	< 0.017	< 0.017	< 0.015	< 0.016
Aroclor 1260	NS	NS	mg/kg	< 0.012	< 0.012	< 0.012	< 0.01	< 0.011
Aroclor 1262	NS	NS	mg/kg	NA	< 0.011	NA	< 0.01	< 0.011
Aroclor 1268	NS	NS	mg/kg	NA	< 0.011	NA	< 0.0094	< 0.01
Metals								
Aluminum	NS	NS	mg/kg	14300	8240	6970 J	9050 J	11100 J
Antimony	NS	NS	mg/kg	3.2 J	0.17 B	0.3 J	< 0.24 J	< 0.25 J
Arsenic	16	16	mg/kg	5.1	3.4	2.2	1.8 B	4.3
Barium	400	820	mg/kg	117	39	28.8	38.3	47.5
Beryllium	72	47	mg/kg	0.79	0.36	0.41	0.54	0.58
Cadmium	4.3	7.5	mg/kg	0.1 B	0.15 B	0.032 B	< 0.073	< 0.075
Calcium	NS	NS	mg/kg	1770 J	6190	877 J	2120	2560
Chromium	NS	NS	mg/kg	25.6 J	20.7	12.1	26.5	24.4
Cobalt	NS	NS	mg/kg	9.3 J	7.7	6.1 J	7.5	9.3
Copper	270	1,720	mg/kg	20.1 J	14.1	11.8	14.3	8.7
Iron	NS	NS	mg/kg	24700 J	20000	15400 J	13400 J	19800 J
Lead	400	450	mg/kg	128	5.1	3.8	14.8	9.5
Magnesium	NS	NS	mg/kg	3770	6240	2560 J	4380	5080
Manganese	2,000	2,000	mg/kg	565 J	454	261 J	218 J	518 J
Mercury	0.81	0.73	mg/kg	0.026 B	0.018 B	< 0.016	< 0.032 UB	< 0.033 UB
Nickel	310	130	mg/kg	20.3	19.9	14.4	16.1	20.7
Potassium	NS	NS	mg/kg	948 B	909 B	570 J	807 B	782 B
Selenium	180	4	mg/kg	0.78 B	< 0.26	< 0.26	< 0.27	< 0.27
Silver	180	8.3	mg/kg	0.39 B	0.98	< 0.067	0.54	0.55
Sodium	NS	NS	mg/kg	115 B	158 B	622 B	134 B	219 B
Thallium	NS	NS	mg/kg	0.3 B	< 0.23	< 0.23	< 0.3	< 0.31
Vanadium	NS	NS	mg/kg	35.4	27.7	15.8	28.7	35.6
Zinc	10,000	2,480	mg/kg	74.3 J	39.3	36	38	44.8
Other								
Solids, Percent	NS	NS	%	88.8	91.8	88.7	93.9	92.1

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use.
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater.

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		DUP(053013) 5/30/2013	PE-P1-WEST-11B (6.0-6.5) 5/31/2013	PE-P1-WEST-12B (6.5-7.0) 5/31/2013	PE-P1-WEST-13B (5.0-5.5) 6/3/2013	PE-P1-WEST-14B (4.5-5.0) 6/5/2013
VOCs								
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00013	< 0.00011	< 0.0001	< 0.00012 J	< 0.00011
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00016	< 0.00014	< 0.00013	< 0.00015	< 0.00013
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00021	< 0.00018	< 0.00017	< 0.0002	< 0.00018
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00017	< 0.00014	< 0.00013	< 0.00016	< 0.00014
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00031	< 0.00027	< 0.00025	< 0.0003	< 0.00026
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00017	< 0.00015	< 0.00014	< 0.00016	< 0.00014
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.0011 J	< 0.00094	< 0.00087 J	< 0.001	< 0.00091
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00016	< 0.00013	< 0.00012	< 0.00015	< 0.00013
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.00023	< 0.0002	< 0.00019	< 0.00022	< 0.00019
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00016	< 0.00014	< 0.00013	< 0.00016 J	< 0.00014
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00019	< 0.00016	< 0.00015	< 0.00018	< 0.00016
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.00023	< 0.0002	< 0.00018	< 0.00022	< 0.00019
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00022	< 0.00019	< 0.00017	< 0.0002	< 0.00018
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0029 J	< 0.0025	< 0.0023	< 0.0028	< 0.0024
2-Hexanone	NS	NS	mg/kg	< 0.00076 J	< 0.00066	< 0.00061	< 0.00072	< 0.00064
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.00092 J	< 0.00079	< 0.00074	< 0.00087	< 0.00077
Acetone	100	0.05	mg/kg	< 0.0021	< 0.0018	< 0.0017	< 0.0019	< 0.0017
Benzene	4.8	0.06	mg/kg	< 0.00015	< 0.00013	< 0.00012	< 0.00014	< 0.00012
Bromodichloromethane	NS	NS	mg/kg	< 0.00013	< 0.00011	< 0.0001	< 0.00012 J	< 0.00011
Bromoform	NS	NS	mg/kg	< 0.00018	< 0.00016	< 0.00015	< 0.00017	< 0.00015
Bromomethane	NS	NS	mg/kg	< 0.00033	< 0.00029	< 0.00027	< 0.00031	< 0.00028
Carbon disulfide	NS	NS	mg/kg	< 0.00014	< 0.00012	< 0.00011	< 0.00013	< 0.00012
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00016	< 0.00014	< 0.00013	< 0.00015 J	< 0.00014
Chlorobenzene	100	1.1	mg/kg	< 0.00013	< 0.00011	< 0.00011	< 0.00012	< 0.00011
Chloroethane	NS	NS	mg/kg	< 0.00028	< 0.00024	< 0.00022	< 0.00026	< 0.00023
Chloroform	49	0.37	mg/kg	< 0.0001	< 0.000087	< 0.000081	< 0.000095	< 0.000084
Chloromethane	NS	NS	mg/kg	< 0.00023	< 0.0002	< 0.00018	< 0.00021	< 0.00019
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00022	< 0.00019	< 0.00018	< 0.00021	< 0.00019
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00017	< 0.00015	< 0.00014	< 0.00016	< 0.00014
Cyclohexane	NS	NS	mg/kg	< 0.00015	< 0.00013	< 0.00012	< 0.00014	< 0.00013
Dibromochloromethane	NS	NS	mg/kg	< 0.0002	< 0.00017	< 0.00016	< 0.00019	< 0.00017
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00028	< 0.00024	< 0.00022	< 0.00026	< 0.00023
Ethylbenzene	41	1	mg/kg	< 0.00032	0.00093 J	0.0012	0.00041 J	< 0.00027
Freon 113	NS	NS	mg/kg	< 0.00053	< 0.00045	< 0.00042	< 0.0005	< 0.00044
Isopropylbenzene	NS	NS	mg/kg	< 0.000091	< 0.000079	< 0.000073	< 0.000086	< 0.000076
Methyl Acetate	NS	NS	mg/kg	< 0.0032	< 0.0027	< 0.0025	< 0.003	< 0.0027
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00029	< 0.00025	< 0.00023	< 0.00027 J	< 0.00024
Methylcyclohexane	NS	NS	mg/kg	< 0.00021	< 0.00018	< 0.00017	< 0.00019	< 0.00017
Methylene chloride	100	0.05	mg/kg	0.0059 J	0.0022 J	< 0.0012	0.0024 J	< 0.0051 UB
Styrene	NS	NS	mg/kg	< 0.00011	< 0.000097	< 0.00009	< 0.00011	< 0.000094
Tetrachloroethene	19	1.3	mg/kg	< 0.00021	< 0.00018	< 0.00017	< 0.0002	< 0.00018
Toluene	100	0.7	mg/kg	< 0.00013	0.0012	0.0033	0.0016	< 0.00011
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00029	< 0.00025	< 0.00023	< 0.00027	< 0.00024
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00019	< 0.00016	< 0.00015	< 0.00018	< 0.00016
Trichloroethene	21	0.47	mg/kg	< 0.00021	< 0.00018	< 0.00017	< 0.0002	< 0.00018
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00036	< 0.00031	< 0.00029	< 0.00034	< 0.0003
Vinyl chloride	0.9	0.02	mg/kg	< 0.00018	< 0.00015	< 0.00014	< 0.00017	< 0.00015
Xylene (total)	100	1.6	mg/kg	< 0.00017	0.0036	0.0024	0.0019	< 0.00014
Total TIC, Volatile	NS	NS	mg/kg	0	0	0	0	0
SVOCs								
1,1'-Biphenyl	NS	NS	mg/kg	< 0.004	< 0.0041 J	< 0.0037 J	< 0.004	< 0.004
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.04	< 0.041	< 0.037	< 0.04	< 0.04
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.033	< 0.033	< 0.03	< 0.032	< 0.032
2,4-Dichlorophenol	NS	NS	mg/kg	< 0.056	< 0.057	< 0.052	< 0.055	< 0.055
2,4-Dimethylphenol	NS	NS	mg/kg	< 0.059	< 0.06	< 0.054	< 0.057 J	< 0.057

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		DUP(053013) 5/30/2013	PE-P1-WEST-11B (6.0-6.5) 5/31/2013	PE-P1-WEST-12B (6.5-7.0) 5/31/2013	PE-P1-WEST-13B (5.0-5.5) 6/3/2013	PE-P1-WEST-14B (4.5-5.0) 6/5/2013
SVOCs cont.								
2,4-Dinitrophenol	NS	NS	mg/kg	< 0.043 J	< 0.043 J	< 0.039 J	< 0.042 J	< 0.042 J
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.015 J	< 0.016	< 0.014	< 0.015 J	< 0.015 J
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.013 J	< 0.014	< 0.012	< 0.013 J	< 0.013 J
2-Chloronaphthalene	NS	NS	mg/kg	< 0.011	< 0.011 J	< 0.01 J	< 0.011	< 0.011
2-Chlorophenol	NS	NS	mg/kg	< 0.035	< 0.036	< 0.033	< 0.034	< 0.035
2-Methylnaphthalene	NS	NS	mg/kg	< 0.019	< 0.02	< 0.018	< 0.019	< 0.019
2-Methylphenol	100	0.33	mg/kg	< 0.04	< 0.041	< 0.037	< 0.039	< 0.039
2-Nitroaniline	NS	NS	mg/kg	< 0.015 J	< 0.016	< 0.014	< 0.015	< 0.015
2-Nitrophenol	NS	NS	mg/kg	< 0.037 J	< 0.038	< 0.034	< 0.036	< 0.036
3&4-Methylphenol	NS	NS	mg/kg	< 0.044	< 0.045	< 0.041	< 0.043	< 0.043
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0089	< 0.009	< 0.0082	< 0.0087	< 0.0087
3-Nitroaniline	NS	NS	mg/kg	< 0.014	< 0.014	< 0.013	< 0.014	< 0.014
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.043 J	< 0.043 J	< 0.039 J	< 0.042 J	< 0.042 J
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.013	< 0.013	< 0.012	< 0.012	< 0.012
4-Chloro-3-methyl phenol	NS	NS	mg/kg	< 0.035	< 0.036	< 0.032	< 0.034	< 0.034
4-Chloroaniline	NS	NS	mg/kg	< 0.011	< 0.011	< 0.01	< 0.011	< 0.011
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	< 0.011	< 0.011	< 0.0097	< 0.01	< 0.01
4-Nitroaniline	NS	NS	mg/kg	< 0.014	< 0.014	< 0.013	< 0.013	< 0.013
4-Nitrophenol	NS	NS	mg/kg	< 0.059 J	< 0.06	< 0.055	< 0.058	< 0.058 J
Acenaphthene	100	98	mg/kg	< 0.01	< 0.01	< 0.0094	< 0.0099	< 0.0099
Acenaphthylene	100	107	mg/kg	< 0.011	< 0.011	< 0.01	< 0.011	< 0.011
Acetophenone	NS	NS	mg/kg	< 0.0061	< 0.0063	< 0.0057	< 0.006	< 0.006
Anthracene	100	1,000	mg/kg	< 0.012	< 0.012	< 0.011	< 0.012	< 0.012
Atrazine	NS	NS	mg/kg	< 0.0069 J	< 0.007	< 0.0064	< 0.0067 J	< 0.0067
Benzaldehyde	NS	NS	mg/kg	< 0.008 J	< 0.0082 J	< 0.0074 J	< 0.0078	< 0.0079 J
Benzo(a)anthracene	1	1	mg/kg	< 0.011	< 0.012	< 0.011	< 0.011	< 0.011
Benzo(a)pyrene	1	22	mg/kg	< 0.011	< 0.011	< 0.0098	< 0.01	< 0.01
Benzo(b)fluoranthene	1	1.7	mg/kg	< 0.012	< 0.012	< 0.011	< 0.011	< 0.011
Benzo(g,h,i)perylene	100	1,000	mg/kg	< 0.013	< 0.013	< 0.012	< 0.013	< 0.013
Benzo(k)fluoranthene	3.9	1.7	mg/kg	< 0.013	< 0.013	< 0.012	< 0.013	< 0.013
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.014	< 0.014	< 0.013	< 0.014	< 0.014
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.011	< 0.011 J	< 0.0097 J	< 0.01	< 0.01
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.01 J	< 0.011	< 0.0096	< 0.01	< 0.01
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.031 J	< 0.031	< 0.028	< 0.03	< 0.03 J
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.02	< 0.021	< 0.019	< 0.02	< 0.02
Caprolactam	NS	NS	mg/kg	< 0.011	< 0.011	< 0.01	< 0.011	< 0.011
Carbazole	NS	NS	mg/kg	< 0.016	< 0.016	< 0.015	< 0.016	< 0.016
Chrysene	3.9	1	mg/kg	< 0.012	< 0.012	< 0.011	< 0.012	< 0.012
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.012	< 0.012	< 0.011	< 0.012	< 0.012
Dibenzofuran	59	210	mg/kg	< 0.01	< 0.011 J	< 0.0096 J	< 0.01	< 0.01
Diethyl phthalate	NS	NS	mg/kg	< 0.012	< 0.012	< 0.011	< 0.012	< 0.012
Dimethyl phthalate	NS	NS	mg/kg	< 0.012	< 0.013	< 0.011	< 0.012	0.0343 J
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0078	< 0.0079	< 0.0072	< 0.0076	< 0.0076
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.017 J	< 0.017	< 0.016	< 0.017	< 0.017 J
Fluoranthene	100	1,000	mg/kg	< 0.015	< 0.016	< 0.014	< 0.015	< 0.015
Fluorene	100	386	mg/kg	< 0.011	< 0.012	< 0.011	< 0.011	< 0.011
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.011	< 0.012	< 0.011	< 0.011	< 0.011
Hexachlorobutadiene	NS	NS	mg/kg	< 0.0097	< 0.0099	< 0.009	< 0.0095	< 0.0095
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.036 J	< 0.036 J	< 0.033 J	< 0.035 J	< 0.035 J
Hexachloroethane	NS	NS	mg/kg	< 0.0097	< 0.0099	< 0.009	< 0.0095	< 0.0095
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	< 0.012	< 0.012	< 0.011	< 0.012	< 0.012
Isophorone	NS	NS	mg/kg	< 0.0094	< 0.0096	< 0.0087	< 0.0092	< 0.0092
Naphthalene	100	12	mg/kg	< 0.0095	< 0.0097 J	< 0.0088 J	< 0.0093	< 0.0093
Nitrobenzene	NS	NS	mg/kg	< 0.01	< 0.01 J	< 0.0093 J	< 0.0098	< 0.0099
SVOCs cont.								
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0085 J	< 0.0087	< 0.0079	< 0.0083	< 0.0083
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.021	< 0.021	< 0.019	< 0.02	< 0.02
Pentachlorophenol	6.7	0.8	mg/kg	< 0.06 J	< 0.061	< 0.055	< 0.058	< 0.058 J
Phenanthrene	100	1,000	mg/kg	< 0.016	< 0.016	< 0.015	< 0.016	< 0.016
Phenol	100	0.33	mg/kg	< 0.037	< 0.037	< 0.034	< 0.036	< 0.036
Pyrene	100	1,000	mg/kg	< 0.013	< 0.014	< 0.012	< 0.013	< 0.013
Total TIC, Semi-Volatile	NS	NS	mg/kg	0	0.4 JN	0	6.3 JN	0

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		DUP(053013) 5/30/2013	PE-P1-WEST-11B (6.0-6.5) 5/31/2013	PE-P1-WEST-12B (6.5-7.0) 5/31/2013	PE-P1-WEST-13B (5.0-5.5) 6/3/2013	PE-P1-WEST-14B (4.5-5.0) 6/5/2013
PCBs								
Aroclor 1016	NS	NS	mg/kg	< 0.0092	< 0.0095	< 0.0094	< 0.0089	< 0.0093
Aroclor 1221	NS	NS	mg/kg	< 0.021	< 0.022	< 0.022	< 0.021	< 0.021
Aroclor 1232	NS	NS	mg/kg	< 0.018	< 0.018	< 0.018	< 0.017	< 0.018
Aroclor 1242	NS	NS	mg/kg	< 0.011	< 0.012	< 0.012	< 0.011	< 0.011
Aroclor 1248	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	< 0.01	< 0.011
Aroclor 1254	NS	NS	mg/kg	< 0.017	< 0.017	< 0.017	< 0.016	< 0.017
Aroclor 1260	NS	NS	mg/kg	< 0.012	< 0.012	< 0.012	< 0.011	< 0.012
Aroclor 1262	NS	NS	mg/kg	< 0.011	< 0.012	< 0.012	< 0.011	< 0.011
Aroclor 1268	NS	NS	mg/kg	< 0.01	< 0.011	< 0.011	< 0.01	< 0.01
Metals								
Aluminum	NS	NS	mg/kg	8590 J	9970	9870	8890	10100 J
Antimony	NS	NS	mg/kg	< 0.25 J	< 0.27	< 0.26	< 0.26	< 0.26 J
Arsenic	16	16	mg/kg	2.8	1.5 B	4.6	4.1	3.6
Barium	400	820	mg/kg	33.2	41.3	43	36.9	60.1
Beryllium	72	47	mg/kg	0.59	0.71	0.91	0.72 B	0.89
Cadmium	4.3	7.5	mg/kg	< 0.075	0.11 B	0.16 B	0.33 B	0.12 B
Calcium	NS	NS	mg/kg	2590	2050	2400	1720	1730
Chromium	NS	NS	mg/kg	20.1	26.9	20.3	16.1	15.5
Cobalt	NS	NS	mg/kg	9.3	8.4	10.4	7.6	7.5
Copper	270	1,720	mg/kg	9.1	13.5	14.7	12.8	12.8
Iron	NS	NS	mg/kg	19300 J	17800	25800	22300	21600 J
Lead	400	450	mg/kg	5.3	4.5	8.5	4.4	4.6
Magnesium	NS	NS	mg/kg	3170	4110	3350	4050	4220 J
Manganese	2,000	2,000	mg/kg	419 J	152	462	3100	800 J
Mercury	0.81	0.73	mg/kg	< 0.034 UB	< 0.0043	0.0098 B	< 0.0043	0.027 B
Nickel	310	130	mg/kg	15	18.3	16	19.5	16.2
Potassium	NS	NS	mg/kg	636 B	1020 B	894 B	626 B	902 J
Selenium	180	4	mg/kg	< 0.27	< 0.29	< 0.28	0.56 B	< 0.29
Silver	180	8.3	mg/kg	0.46 B	0.2 B	< 0.11	1.3	0.36 B
Sodium	NS	NS	mg/kg	113 B	145 B	166 B	99.3 B	83.9 B
Thallium	NS	NS	mg/kg	< 0.31	< 0.33	< 0.32	< 1.6	< 0.32
Vanadium	NS	NS	mg/kg	32.7	38.5	33.6	30.1	25.7 J
Zinc	10,000	2,480	mg/kg	36.8	47.8	58.9	43.4	43.1 J
Other								
Solids, Percent	NS	NS	%	93	91	91.2	92.3	92.3

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use.
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater.

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		DUP (060513) 6/5/2013	PE-P1-WEST-15B (7.0-7.5) 6/5/2013	PE-P1-WEST-16B(4.5-5.0) 6/12/2013	PE-P1-WEST-17B (7.0-7.5) 6/17/2013	PE-P1-WEST-18B (7.0-7.5) 6/17/2013
VOCs								
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00011	< 0.00011	< 0.00012	< 0.00012	< 0.0001
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00014	< 0.00014	< 0.00015	< 0.00015	< 0.00013
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00018	< 0.00018	< 0.0002	< 0.0002	< 0.00017
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00014	< 0.00015	< 0.00015	< 0.00015	< 0.00013
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00027	< 0.00027	< 0.00029	< 0.00029	< 0.00025
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00015	< 0.00015	< 0.00016	< 0.00016	< 0.00013
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.00094	< 0.00094	< 0.001	< 0.001	< 0.00086
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00013	< 0.00013	< 0.00014	< 0.00014	< 0.00012
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.0002	< 0.0002	< 0.00021	< 0.00021	< 0.00018
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00014	< 0.00014	< 0.00015	< 0.00015	< 0.00013
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00016	< 0.00016	< 0.00017	< 0.00017	< 0.00015
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.0002	< 0.0002	< 0.00021	< 0.00021	< 0.00018
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00019	< 0.00019	< 0.0002	< 0.0002	< 0.00017
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0025	< 0.0025	< 0.0027	< 0.0027	< 0.0023
2-Hexanone	NS	NS	mg/kg	< 0.00065	< 0.00066	< 0.0007	< 0.0007	< 0.0006
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.00079	< 0.0008	< 0.00084	0.0018 J	0.0104
Acetone	100	0.05	mg/kg	< 0.0018	< 0.0018	< 0.0019	0.024	0.139
Benzene	4.8	0.06	mg/kg	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00011
Bromodichloromethane	NS	NS	mg/kg	< 0.00011	< 0.00011	< 0.00012	< 0.00012	< 0.0001
Bromoform	NS	NS	mg/kg	< 0.00016	< 0.00016	< 0.00017	< 0.00017	< 0.00015
Bromomethane	NS	NS	mg/kg	< 0.00029	< 0.00029	< 0.00031	< 0.00031	< 0.00026
Carbon disulfide	NS	NS	mg/kg	< 0.00012	< 0.00012	< 0.00013	< 0.00013	< 0.00011
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00014	< 0.00014	< 0.00015	< 0.00015	< 0.00013
Chlorobenzene	100	1.1	mg/kg	< 0.00011	< 0.00011	< 0.00012	< 0.00012	< 0.0001
Chloroethane	NS	NS	mg/kg	< 0.00024	< 0.00024	< 0.00025	< 0.00026	< 0.00022
Chloroform	49	0.37	mg/kg	< 0.000087	< 0.000088	< 0.000093	< 0.000093	< 0.000079
Chloromethane	NS	NS	mg/kg	< 0.0002	< 0.0002	< 0.00021	< 0.00021	< 0.00018
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00019	< 0.00019	< 0.00021	< 0.00021	< 0.00018
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00015	< 0.00015	< 0.00016	< 0.00016	< 0.00013
Cyclohexane	NS	NS	mg/kg	< 0.00013	< 0.00013	< 0.00014	< 0.00014	< 0.00012
Dibromochloromethane	NS	NS	mg/kg	< 0.00017	< 0.00017	< 0.00018	< 0.00018	< 0.00016
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00024	< 0.00024	< 0.00026	< 0.00026	< 0.00022
Ethylbenzene	41	1	mg/kg	< 0.00028	< 0.00028	< 0.0003	0.0021	0.0466
Freon 113	NS	NS	mg/kg	< 0.00045	< 0.00046	< 0.00048	< 0.00048	< 0.00041
Isopropylbenzene	NS	NS	mg/kg	< 0.000078	< 0.000079	< 0.000083	0.00054 J	0.0051
Methyl Acetate	NS	NS	mg/kg	< 0.0027	< 0.0028	< 0.0029	< 0.0029 J	< 0.0025 J
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00025	< 0.00025	< 0.00026	< 0.00026	< 0.00023
Methylcyclohexane	NS	NS	mg/kg	< 0.00018	< 0.00018	0.00063 J	< 0.00019	0.0011 J
Methylene chloride	100	0.05	mg/kg	< 0.0053 UB	< 0.0053 UB	< 0.0014	0.0034 J	0.0033 J
Styrene	NS	NS	mg/kg	< 0.000097	< 0.000097	< 0.0001	< 0.0001	< 0.000088
Tetrachloroethene	19	1.3	mg/kg	< 0.00018	< 0.00018	< 0.00019	< 0.00019	< 0.00017
Toluene	100	0.7	mg/kg	< 0.00011	< 0.00011	< 0.00012	0.0012	0.0293
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00025	< 0.00025	< 0.00027	< 0.00027	< 0.00023
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00016	< 0.00016	< 0.00017	< 0.00017	< 0.00015
Trichloroethene	21	0.47	mg/kg	< 0.00018	< 0.00018	< 0.0002	< 0.0002	< 0.00017
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00031	< 0.00032	< 0.00033	< 0.00034	< 0.00029
Vinyl chloride	0.9	0.02	mg/kg	< 0.00015	< 0.00015	< 0.00016	< 0.00016	< 0.00014
Xylene (total)	100	1.6	mg/kg	< 0.00015	< 0.00015	0.0036	0.0123	0.349
Total TIC, Volatile	NS	NS	mg/kg	0	0.015 JN	0.0141 JN	0	0.238 JN
SVOCs								
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0044	< 0.0038 J	< 0.004 J	< 0.0043	< 0.0038
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.044	< 0.038 J	< 0.04	< 0.043	< 0.038
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.035	< 0.031 J	< 0.033	< 0.035	< 0.031
2,4-Dichlorophenol	NS	NS	mg/kg	< 0.061	< 0.053 J	< 0.056	< 0.06	< 0.053
2,4-Dimethylphenol	NS	NS	mg/kg	< 0.063	< 0.055 J	< 0.058	< 0.063	< 0.055

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		DUP (060513) 6/5/2013	PE-P1-WEST-15B (7.0-7.5) 6/5/2013	PE-P1-WEST-16B(4.5-5.0) 6/12/2013	PE-P1-WEST-17B (7.0-7.5) 6/17/2013	PE-P1-WEST-18B (7.0-7.5) 6/17/2013
SVOCs cont.								
2,4-Dinitrophenol	NS	NS	mg/kg	< 0.046 J	< 0.04 J	< 0.042 J	< 0.046	< 0.04
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.016 J	< 0.014 J	< 0.015	< 0.016 J	< 0.014 J
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.014 J	< 0.013 J	< 0.013	< 0.014	< 0.013
2-Chloronaphthalene	NS	NS	mg/kg	< 0.012	< 0.01 J	< 0.011 J	< 0.012	< 0.01
2-Chlorophenol	NS	NS	mg/kg	< 0.038	< 0.033 J	< 0.035	< 0.038	< 0.033
2-Methylnaphthalene	NS	NS	mg/kg	< 0.021	< 0.018 J	< 0.019	< 0.021	< 0.018
2-Methylphenol	100	0.33	mg/kg	< 0.043	< 0.038	< 0.04	< 0.043	< 0.038
2-Nitroaniline	NS	NS	mg/kg	< 0.017	< 0.014 J	< 0.015	< 0.016	< 0.014
2-Nitrophenol	NS	NS	mg/kg	< 0.04	< 0.035 J	< 0.037	< 0.04	< 0.035
3&4-Methylphenol	NS	NS	mg/kg	< 0.048	< 0.042	< 0.044	< 0.047	< 0.042
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0096	< 0.0084	< 0.0088	< 0.0095	< 0.0084
3-Nitroaniline	NS	NS	mg/kg	< 0.015	< 0.013 J	< 0.014	< 0.015	< 0.013
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.046 J	< 0.04 J	< 0.042 J	< 0.046	< 0.04
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.014	< 0.012 J	< 0.013	< 0.014	< 0.012
4-Chloro-3-methyl phenol	NS	NS	mg/kg	< 0.038	< 0.033 J	< 0.035	< 0.037	< 0.033
4-Chloroaniline	NS	NS	mg/kg	< 0.012	< 0.011 J	< 0.011	< 0.012	< 0.011
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	< 0.011	< 0.0099 J	< 0.01	< 0.011	< 0.0099
4-Nitroaniline	NS	NS	mg/kg	< 0.015	< 0.013	< 0.014	< 0.015	< 0.013
4-Nitrophenol	NS	NS	mg/kg	< 0.064 J	< 0.056 J	< 0.059 J	< 0.063	< 0.056
Acenaphthene	100	98	mg/kg	< 0.011	< 0.0095 J	< 0.01	< 0.011	< 0.0095
Acenaphthylene	100	107	mg/kg	< 0.012	< 0.011 J	< 0.011	< 0.012	< 0.011
Acetophenone	NS	NS	mg/kg	< 0.0066	< 0.0058 J	< 0.0061	< 0.0066	< 0.0058
Anthracene	100	1,000	mg/kg	< 0.013	< 0.012 J	< 0.012	< 0.013	< 0.012
Atrazine	NS	NS	mg/kg	< 0.0074	< 0.0065	< 0.0068	< 0.0074 J	< 0.0065 J
Benzaldehyde	NS	NS	mg/kg	< 0.0087 J	< 0.0076 J	< 0.008 J	< 0.0086 J	< 0.0076 J
Benzo(a)anthracene	1	1	mg/kg	< 0.012	< 0.011	< 0.011	< 0.012	< 0.011
Benzo(a)pyrene	1	22	mg/kg	< 0.012	< 0.01	< 0.011 J	< 0.011	< 0.01
Benzo(b)fluoranthene	1	1.7	mg/kg	< 0.013	< 0.011	< 0.012 J	< 0.012	< 0.011
Benzo(g,h,i)perylene	100	1,000	mg/kg	< 0.014	< 0.012	< 0.013 J	< 0.014	< 0.012
Benzo(k)fluoranthene	3.9	1.7	mg/kg	< 0.014	< 0.012	< 0.013 J	< 0.014	< 0.012
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.015	< 0.013 J	< 0.014	< 0.015	< 0.013
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.011	< 0.0099 J	< 0.01 J	< 0.011	< 0.0099
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.011	< 0.0098 J	< 0.01	< 0.011	< 0.0098
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.033 J	< 0.029 J	< 0.031	< 0.033	< 0.029
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.022	< 0.019	< 0.02	< 0.022	< 0.019
Caprolactam	NS	NS	mg/kg	< 0.012	< 0.01	< 0.011	< 0.012	< 0.01
Carbazole	NS	NS	mg/kg	< 0.017	< 0.015	< 0.016	< 0.017	< 0.015
Chrysene	3.9	1	mg/kg	< 0.013	< 0.011	< 0.012	< 0.013	< 0.011
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.013	< 0.011	< 0.012 J	< 0.013	< 0.011
Dibenzofuran	59	210	mg/kg	< 0.011	< 0.0098 J	< 0.01 J	< 0.011	< 0.0098
Diethyl phthalate	NS	NS	mg/kg	< 0.013	< 0.011 J	< 0.012	< 0.013	< 0.011
Dimethyl phthalate	NS	NS	mg/kg	< 0.013	< 0.012 J	< 0.012	< 0.013	< 0.012
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0084	< 0.0073	< 0.0077	< 0.0083	< 0.0073
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.018 J	< 0.016 J	< 0.017 J	< 0.018 J	< 0.016 J
Fluoranthene	100	1,000	mg/kg	< 0.017	< 0.015	< 0.015	< 0.016	< 0.015
Fluorene	100	386	mg/kg	< 0.012	< 0.011 J	< 0.011	< 0.012	< 0.011
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.012	< 0.011 J	< 0.011	< 0.012	< 0.011
Hexachlorobutadiene	NS	NS	mg/kg	< 0.01	< 0.0091 J	< 0.0097	< 0.01	< 0.0092
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.039 J	< 0.034 J	< 0.035 J	< 0.038 J	< 0.034 J
Hexachloroethane	NS	NS	mg/kg	< 0.01	< 0.0091 J	< 0.0097	< 0.01	< 0.0092
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	< 0.013	< 0.011	< 0.012 J	< 0.013	< 0.011
Isophorone	NS	NS	mg/kg	< 0.01	< 0.0088 J	< 0.0094	< 0.01	< 0.0089
Naphthalene	100	12	mg/kg	< 0.01	< 0.009 J	< 0.0095 J	< 0.01	< 0.009
Nitrobenzene	NS	NS	mg/kg	< 0.011	< 0.0095 J	< 0.01 J	< 0.011	< 0.0095
SVOCs cont.								
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0092	< 0.008 J	< 0.0085	< 0.0091	< 0.008
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.023	< 0.02 J	< 0.021	< 0.022	< 0.02
Pentachlorophenol	6.7	0.8	mg/kg	< 0.065 J	< 0.056	< 0.059	< 0.064 J	< 0.056 J
Phenanthrene	100	1,000	mg/kg	< 0.017	< 0.015 J	< 0.016	< 0.017	< 0.015
Phenol	100	0.33	mg/kg	< 0.04	< 0.035	< 0.036	< 0.039	< 0.035
Pyrene	100	1,000	mg/kg	< 0.014	< 0.013	< 0.013	< 0.014	< 0.013
Total TIC, Semi-Volatile	NS	NS	mg/kg	0.53 JN	0	0.81 JN	0.22 JN	0

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		DUP (060513) 6/5/2013	PE-P1-WEST-15B (7.0-7.5) 6/5/2013	PE-P1-WEST-16B(4.5-5.0) 6/12/2013	PE-P1-WEST-17B (7.0-7.5) 6/17/2013	PE-P1-WEST-18B (7.0-7.5) 6/17/2013
PCBs								
Aroclor 1016	NS	NS	mg/kg	< 0.0095	< 0.0091	< 0.0092	< 0.0095	< 0.0094
Aroclor 1221	NS	NS	mg/kg	< 0.022	< 0.021	< 0.021	< 0.022	< 0.022
Aroclor 1232	NS	NS	mg/kg	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018
Aroclor 1242	NS	NS	mg/kg	< 0.012	< 0.011	< 0.011	< 0.012	< 0.011
Aroclor 1248	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Aroclor 1254	NS	NS	mg/kg	< 0.017	< 0.016	< 0.016	< 0.017	< 0.017
Aroclor 1260	NS	NS	mg/kg	< 0.012	< 0.011	< 0.012	< 0.012	< 0.012
Aroclor 1262	NS	NS	mg/kg	< 0.012	< 0.011	NA	NA	NA
Aroclor 1268	NS	NS	mg/kg	< 0.011	< 0.01	NA	NA	NA
Metals								
Aluminum	NS	NS	mg/kg	20200 J	10400 J	6200 J	10500	12100
Antimony	NS	NS	mg/kg	< 0.29 J	< 0.27 J	0.65 B	0.6 B	1.4 B
Arsenic	16	16	mg/kg	4.2	1.1 B	3.2	4.3	5.4
Barium	400	820	mg/kg	62.6	30.3	44.1	25.4	51.9
Beryllium	72	47	mg/kg	1.3	0.53	0.45	0.7	0.78
Cadmium	4.3	7.5	mg/kg	0.14 B	< 0.081	0.14 B	0.11 B	0.39 B
Calcium	NS	NS	mg/kg	1030	1550	1060	1920	1210
Chromium	NS	NS	mg/kg	37.4	17.5	14.9	29.3	30.3
Cobalt	NS	NS	mg/kg	9	6.7	6	11.8	14.5
Copper	270	1,720	mg/kg	10.1	13.6	14.2	11	21.5
Iron	NS	NS	mg/kg	27900 J	14400 J	14400	26900	24100
Lead	400	450	mg/kg	6.6	4.9	29.4	4.9	11.1
Magnesium	NS	NS	mg/kg	3210 J	3860 J	2750	4500	4470
Manganese	2,000	2,000	mg/kg	269 J	106 J	652	451	1580
Mercury	0.81	0.73	mg/kg	0.049	0.01 B	0.013 B	< 0.0046	0.0064 B
Nickel	310	130	mg/kg	16.8	16.6	12.8	19.3	26
Potassium	NS	NS	mg/kg	440 J	924 J	437 B	658 B	1010 B
Selenium	180	4	mg/kg	0.34 B	< 0.29	0.72 B	< 0.31	0.63 B
Silver	180	8.3	mg/kg	0.43 B	0.41 B	0.11 B	0.7	0.56 B
Sodium	NS	NS	mg/kg	104 B	99.6 B	113 B	189 B	125 B
Thallium	NS	NS	mg/kg	< 0.36	< 0.33	< 0.33	0.76 B	< 0.68
Vanadium	NS	NS	mg/kg	57.7 J	19.6 J	15	37.6	36.8
Zinc	10,000	2,480	mg/kg	51.6 J	55.3 J	45.9	41.2	53
Other								
Solids, Percent	NS	NS	%	83.3	92.4	92.8	88.9	89.6

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use.
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater.

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P1-WEST-18B (9.0-9.5)A 7/18/2013	PE-P1-WEST-19B (7.0-7.5) 6/17/2013	PE-P1-WEST-19B (9.0-9.5)B 7/18/2013	PE-P1-WEST-20B (7.0-7.5) 6/17/2013	PE-P1-WEST-21B (3.0-3.5) 6/17/2013
VOCs								
1,1,1-Trichloroethane	100	0.68	mg/kg	NA	< 0.00012	NA	< 0.00011	< 0.00011 J
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	NA	< 0.00015	NA	< 0.00014	< 0.00013
1,1,2-Trichloroethane	NS	NS	mg/kg	NA	< 0.0002	NA	< 0.00019	< 0.00018
1,1-Dichloroethane	26	0.27	mg/kg	NA	< 0.00016	NA	< 0.00015	< 0.00014
1,1-Dichloroethene	100	0.33	mg/kg	NA	< 0.00029	NA	< 0.00028	< 0.00026
1,2,4-Trichlorobenzene	NS	NS	mg/kg	NA	< 0.00016	NA	< 0.00015	< 0.00014
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	NA	< 0.001	NA	< 0.00095	< 0.0009
1,2-Dibromoethane	NS	NS	mg/kg	NA	< 0.00014	NA	< 0.00014	< 0.00013
1,2-Dichlorobenzene	100	1.1	mg/kg	NA	< 0.00021	NA	< 0.0002	< 0.00019
1,2-Dichloroethane	3.1	0.02	mg/kg	NA	< 0.00015	NA	< 0.00014	< 0.00014
1,2-Dichloropropane	NS	NS	mg/kg	NA	< 0.00017	NA	< 0.00016	< 0.00016
1,3-Dichlorobenzene	49	2.4	mg/kg	NA	< 0.00021	NA	< 0.0002	< 0.00019
1,4-Dichlorobenzene	13	1.8	mg/kg	NA	< 0.0002	NA	< 0.00019	< 0.00018
2-Butanone (MEK)	100	0.12	mg/kg	NA	0.0152	NA	< 0.0026	< 0.0024
2-Hexanone	NS	NS	mg/kg	NA	< 0.0007	NA	< 0.00067	< 0.00063
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	NA	0.0172	NA	< 0.0008	< 0.00076 J
Acetone	100	0.05	mg/kg	< 0.0021	0.211	< 0.002	0.0086 J	< 0.0017
Benzene	4.8	0.06	mg/kg	NA	< 0.00013	NA	< 0.00013	< 0.00012
Bromodichloromethane	NS	NS	mg/kg	NA	< 0.00012	NA	< 0.00011	< 0.00011
Bromoform	NS	NS	mg/kg	NA	< 0.00017	NA	< 0.00016	< 0.00015
Bromomethane	NS	NS	mg/kg	NA	< 0.00031	NA	< 0.00029	< 0.00028
Carbon disulfide	NS	NS	mg/kg	NA	< 0.00013	NA	< 0.00013	< 0.00012
Carbon tetrachloride	2.4	0.76	mg/kg	NA	< 0.00015	NA	< 0.00014	< 0.00013
Chlorobenzene	100	1.1	mg/kg	NA	< 0.00012	NA	< 0.00012	< 0.00011
Chloroethane	NS	NS	mg/kg	NA	< 0.00026	NA	< 0.00024	< 0.00023
Chloroform	49	0.37	mg/kg	NA	< 0.000094	NA	< 0.000088	< 0.000084
Chloromethane	NS	NS	mg/kg	NA	< 0.00021	NA	< 0.0002	< 0.00019
cis-1,2-Dichloroethene	100	0.25	mg/kg	NA	< 0.00021	NA	< 0.0002	< 0.00019
cis-1,3-Dichloropropene	NS	NS	mg/kg	NA	< 0.00016	NA	< 0.00015	< 0.00014
Cyclohexane	NS	NS	mg/kg	NA	< 0.00014	NA	< 0.00013	< 0.00013
Dibromochloromethane	NS	NS	mg/kg	NA	< 0.00019	NA	< 0.00018	< 0.00017
Dichlorodifluoromethane	NS	NS	mg/kg	NA	< 0.00026	NA	< 0.00024	< 0.00023 J
Ethylbenzene	41	1	mg/kg	NA	0.0252	NA	0.00076 J	< 0.00027
Freon 113	NS	NS	mg/kg	NA	< 0.00049	NA	< 0.00046	< 0.00044
Isopropylbenzene	NS	NS	mg/kg	NA	0.0017 J	NA	0.00032 J	< 0.000075
Methyl Acetate	NS	NS	mg/kg	NA	< 0.0029 J	NA	< 0.0028	< 0.0026
Methyl Tert Butyl Ether	100	0.93	mg/kg	NA	< 0.00027	NA	< 0.00025	< 0.00024
Methylcyclohexane	NS	NS	mg/kg	NA	0.00025 J	NA	< 0.00018	< 0.00017
Methylene chloride	100	0.05	mg/kg	NA	0.0022 J	NA	0.003 J	0.0081
Styrene	NS	NS	mg/kg	NA	< 0.0001	NA	< 0.000098	< 0.000093
Tetrachloroethene	19	1.3	mg/kg	NA	< 0.00019	NA	< 0.00018	< 0.00017
Toluene	100	0.7	mg/kg	NA	0.0268	NA	0.0005 J	< 0.00011
trans-1,2-Dichloroethene	100	0.19	mg/kg	NA	< 0.00027	NA	< 0.00025	< 0.00024
trans-1,3-Dichloropropene	NS	NS	mg/kg	NA	< 0.00018	NA	< 0.00017	< 0.00016
Trichloroethene	21	0.47	mg/kg	NA	< 0.0002	NA	< 0.00019	< 0.00018
Trichlorofluoromethane	NS	NS	mg/kg	NA	< 0.00034	NA	< 0.00032	< 0.0003 J
Vinyl chloride	0.9	0.02	mg/kg	NA	< 0.00016	NA	< 0.00015	< 0.00015
Xylene (total)	100	1.6	mg/kg	NA	0.19	NA	0.0062	< 0.00014
Total TIC, Volatile	NS	NS	mg/kg	0	0.368 JN	0	0.0803 JN	0
SVOCs								
1,1'-Biphenyl	NS	NS	mg/kg	NA	< 0.0041	NA	< 0.0042	< 0.0036
2,4,5-Trichlorophenol	NS	NS	mg/kg	NA	< 0.041	NA	< 0.042	< 0.036
2,4,6-Trichlorophenol	NS	NS	mg/kg	NA	< 0.033	NA	< 0.034	< 0.029
2,4-Dichlorophenol	NS	NS	mg/kg	NA	< 0.056	NA	< 0.059	< 0.05
2,4-Dimethylphenol	NS	NS	mg/kg	NA	< 0.059	NA	< 0.062	< 0.052

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID	375-6.8(b)	375-6.8(b)		PE-P1-WEST-18B (9.0-9.5)A	PE-P1-WEST-19B (7.0-7.5)	PE-P1-WEST-19B (9.0-9.5)B	PE-P1-WEST-20B (7.0-7.5)	PE-P1-WEST-21B (3.0-3.5)
Sample Date	NYS Restricted	NYS Protection		7/18/2013	6/17/2013	7/18/2013	6/17/2013	6/17/2013
SVOCs cont.								
2,4-Dinitrophenol	NS	NS	mg/kg	NA	< 0.043	NA	< 0.045	< 0.038
2,4-Dinitrotoluene	NS	NS	mg/kg	NA	< 0.015 J	NA	< 0.016 J	< 0.013 J
2,6-Dinitrotoluene	NS	NS	mg/kg	NA	< 0.013	NA	< 0.014	< 0.012
2-Chloronaphthalene	NS	NS	mg/kg	NA	< 0.011	NA	< 0.011	< 0.0096
2-Chlorophenol	NS	NS	mg/kg	NA	< 0.035	NA	< 0.037	< 0.031
2-Methylnaphthalene	NS	NS	mg/kg	NA	< 0.02	NA	< 0.02	< 0.017
2-Methylphenol	100	0.33	mg/kg	NA	< 0.04	NA	< 0.042	< 0.035
2-Nitroaniline	NS	NS	mg/kg	NA	< 0.015	NA	< 0.016	< 0.014
2-Nitrophenol	NS	NS	mg/kg	NA	< 0.037	NA	< 0.039	< 0.033
3&4-Methylphenol	NS	NS	mg/kg	NA	< 0.044	NA	< 0.047	< 0.039
3,3'-Dichlorobenzidine	NS	NS	mg/kg	NA	< 0.0089	NA	< 0.0093	< 0.0078
3-Nitroaniline	NS	NS	mg/kg	NA	< 0.014	NA	< 0.015	< 0.012
4,6-Dinitro-o-cresol	NS	NS	mg/kg	NA	< 0.043	NA	< 0.045	< 0.038
4-Bromophenyl phenyl ether	NS	NS	mg/kg	NA	< 0.013	NA	< 0.013	< 0.011
4-Chloro-3-methyl phenol	NS	NS	mg/kg	NA	< 0.035	NA	< 0.037	< 0.031
4-Chloroaniline	NS	NS	mg/kg	NA	< 0.011	NA	< 0.012	< 0.0099
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	NA	< 0.011	NA	< 0.011	< 0.0093
4-Nitroaniline	NS	NS	mg/kg	NA	< 0.014	NA	< 0.014	< 0.012
4-Nitrophenol	NS	NS	mg/kg	NA	< 0.059	NA	< 0.062	< 0.052
Acenaphthene	100	98	mg/kg	NA	< 0.01	NA	< 0.011	< 0.0089
Acenaphthylene	100	107	mg/kg	NA	< 0.011	NA	< 0.012	< 0.0099
Acetophenone	NS	NS	mg/kg	NA	< 0.0062	NA	< 0.0064	< 0.0054
Anthracene	100	1,000	mg/kg	NA	< 0.012	NA	< 0.013	< 0.011
Atrazine	NS	NS	mg/kg	NA	< 0.0069 J	NA	< 0.0072 J	< 0.0061 J
Benzaldehyde	NS	NS	mg/kg	NA	< 0.0081 J	NA	< 0.0084 J	< 0.0071 J
Benzo(a)anthracene	1	1	mg/kg	NA	< 0.011	NA	< 0.012	< 0.01
Benzo(a)pyrene	1	22	mg/kg	NA	< 0.011	NA	< 0.011	< 0.0094
Benzo(b)fluoranthene	1	1.7	mg/kg	NA	< 0.012	NA	< 0.012	< 0.01
Benzo(g,h,i)perylene	100	1,000	mg/kg	NA	< 0.013	NA	< 0.014	< 0.011
Benzo(k)fluoranthene	3.9	1.7	mg/kg	NA	< 0.013	NA	< 0.014	< 0.012
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	NA	< 0.014	NA	< 0.015	< 0.012
bis(2-Chloroethyl)ether	NS	NS	mg/kg	NA	< 0.011	NA	< 0.011	< 0.0093
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	NA	< 0.01	NA	< 0.011	< 0.0092
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	NA	< 0.031	NA	< 0.032	< 0.027
Butyl benzyl phthalate	NS	NS	mg/kg	NA	< 0.02	NA	< 0.021	< 0.018
Caprolactam	NS	NS	mg/kg	NA	< 0.011	NA	< 0.012	< 0.0097
Carbazole	NS	NS	mg/kg	NA	< 0.016	NA	< 0.017	< 0.014
Chrysene	3.9	1	mg/kg	NA	< 0.012	NA	< 0.012	< 0.01
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	NA	< 0.012	NA	< 0.012	< 0.011
Dibenzofuran	59	210	mg/kg	NA	< 0.01	NA	< 0.011	< 0.0092
Diethyl phthalate	NS	NS	mg/kg	NA	< 0.012	NA	< 0.012	< 0.011
Dimethyl phthalate	NS	NS	mg/kg	NA	< 0.012	NA	< 0.013	< 0.011
Di-n-butyl phthalate	NS	NS	mg/kg	NA	< 0.0078	NA	< 0.0081	< 0.0068
Di-n-octyl phthalate	NS	NS	mg/kg	NA	< 0.017 J	NA	< 0.018 J	< 0.015 J
Fluoranthene	100	1,000	mg/kg	NA	< 0.015	NA	< 0.016	< 0.014
Fluorene	100	386	mg/kg	NA	< 0.011	NA	< 0.012	< 0.01
Hexachlorobenzene	1.2	3.2	mg/kg	NA	< 0.011	NA	< 0.012	< 0.01
Hexachlorobutadiene	NS	NS	mg/kg	NA	< 0.0097	NA	< 0.01	< 0.0086
Hexachlorocyclopentadiene	NS	NS	mg/kg	NA	< 0.036 J	NA	< 0.037 J	< 0.031 J
Hexachloroethane	NS	NS	mg/kg	NA	< 0.0097	NA	< 0.01	< 0.0086
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	NA	< 0.012	NA	< 0.013	< 0.011
Isophorone	NS	NS	mg/kg	NA	< 0.0094	NA	< 0.0099	< 0.0083
Naphthalene	100	12	mg/kg	NA	< 0.0096	NA	< 0.01	< 0.0084
Nitrobenzene	NS	NS	mg/kg	NA	< 0.01	NA	< 0.011	< 0.0089
SVOCs cont.								
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	NA	< 0.0085	NA	< 0.0089	< 0.0075
N-Nitrosodiphenylamine	NS	NS	mg/kg	NA	< 0.021	NA	< 0.022	< 0.018
Pentachlorophenol	6.7	0.8	mg/kg	NA	< 0.06 J	NA	< 0.063 J	< 0.053 J
Phenanthrene	100	1,000	mg/kg	NA	< 0.016	NA	< 0.017	< 0.014
Phenol	100	0.33	mg/kg	NA	< 0.037	NA	< 0.038	< 0.032
Pyrene	100	1,000	mg/kg	NA	< 0.013	NA	< 0.014	< 0.012
Total TIC, Semi-Volatile	NS	NS	mg/kg	NA	0	NA	0	0

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P1-WEST-18B (9.0-9.5)A 7/18/2013	PE-P1-WEST-19B (7.0-7.5) 6/17/2013	PE-P1-WEST-19B (9.0-9.5)B 7/18/2013	PE-P1-WEST-20B (7.0-7.5) 6/17/2013	PE-P1-WEST-21B (3.0-3.5) 6/17/2013
PCBs								
Aroclor 1016	NS	NS	mg/kg	NA	< 0.0093	NA	< 0.0093	< 0.009
Aroclor 1221	NS	NS	mg/kg	NA	< 0.022	NA	< 0.022	< 0.021
Aroclor 1232	NS	NS	mg/kg	NA	< 0.018	NA	< 0.018	< 0.018
Aroclor 1242	NS	NS	mg/kg	NA	< 0.011	NA	< 0.011	< 0.011
Aroclor 1248	NS	NS	mg/kg	NA	< 0.011	NA	< 0.011	< 0.011
Aroclor 1254	NS	NS	mg/kg	NA	< 0.017	NA	< 0.017	< 0.016
Aroclor 1260	NS	NS	mg/kg	NA	< 0.012	NA	< 0.012	< 0.011
Aroclor 1262	NS	NS	mg/kg	NA	NA	NA	NA	NA
Aroclor 1268	NS	NS	mg/kg	NA	NA	NA	NA	NA
Metals								
Aluminum	NS	NS	mg/kg	NA	10100	NA	8740	11800
Antimony	NS	NS	mg/kg	NA	0.96 B	NA	0.91 B	1 B
Arsenic	16	16	mg/kg	NA	4.6	NA	4.4	3.8
Barium	400	820	mg/kg	NA	48.7	NA	56.6	53.3
Beryllium	72	47	mg/kg	NA	0.76	NA	0.59	0.76
Cadmium	4.3	7.5	mg/kg	NA	0.18 B	NA	0.15 B	0.22 B
Calcium	NS	NS	mg/kg	NA	1610	NA	1690	2370
Chromium	NS	NS	mg/kg	NA	17.5	NA	19.7	17.7
Cobalt	NS	NS	mg/kg	NA	8.6	NA	7.8	8.4
Copper	270	1,720	mg/kg	NA	18.7	NA	16.9	14.5
Iron	NS	NS	mg/kg	NA	20900	NA	21700	23600
Lead	400	450	mg/kg	NA	12	NA	9.7	5.2
Magnesium	NS	NS	mg/kg	NA	4050	NA	3920	4970
Manganese	2,000	2,000	mg/kg	NA	901	NA	565	767
Mercury	0.81	0.73	mg/kg	NA	0.0053 B	NA	< 0.0046	0.016 B
Nickel	310	130	mg/kg	NA	18.8	NA	18	20
Potassium	NS	NS	mg/kg	NA	1090 B	NA	869 b	650 B
Selenium	180	4	mg/kg	NA	0.79 B	NA	0.38 B	0.5 B
Silver	180	8.3	mg/kg	NA	0.54 B	NA	0.87	0.8
Sodium	NS	NS	mg/kg	NA	202 B	NA	129 B	105 B
Thallium	NS	NS	mg/kg	NA	0.89 B	NA	0.74 B	0.33 B
Vanadium	NS	NS	mg/kg	NA	22.8	NA	32.4	30
Zinc	10,000	2,480	mg/kg	NA	50.7	NA	49.1	65.7
Other								
Solids, Percent	NS	NS	%	NA	90.1	NA	89.8	93.2

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use.
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater.

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID	375-6.8(b)	375-6.8(b)		PE-P1-WEST-22B (8.0-8.5)	PE-P1-WEST-23B (2.5-3.0)	PE-P1-WEST-24B (5.0-5.5)	PE-P1-WEST-1SW(WEST)(4.0')	PE-P1-WEST-2SW (3.5-4.0)
Sample Date	NYS Restricted	NYS Protection		6/18/2013	6/18/2013	6/24/2013	3/28/2013	4/1/2013
VOCs								
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.0001	< 0.00011	< 0.00012	< 0.00011	< 0.00011
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00013	< 0.00014	< 0.00015	< 0.00013	< 0.00014
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00017	< 0.00018	< 0.0002	< 0.00018	< 0.00019
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00014	< 0.00014	< 0.00016	< 0.00014	< 0.00015
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00025	< 0.00027	< 0.0003	< 0.00026	< 0.00028
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00014	< 0.00015	< 0.00016	< 0.00014	< 0.00015
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.00088	< 0.00094	< 0.001	< 0.00091	< 0.00095
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00013	< 0.00013	< 0.00015	< 0.00013	< 0.00014
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.00019	< 0.0002	< 0.00022	< 0.00019	< 0.0002
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00013	< 0.00014	< 0.00016	< 0.00014	< 0.00014
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00015	< 0.00016	< 0.00018	< 0.00016	< 0.00017
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.00018	< 0.0002	< 0.00022	< 0.00019	< 0.0002
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00017	< 0.00018	< 0.0002	< 0.00018	< 0.00019
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0024	< 0.0025	< 0.0028	< 0.0024	< 0.0026
2-Hexanone	NS	NS	mg/kg	< 0.00061	< 0.00065	< 0.00072	< 0.00063 J	< 0.00067
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.00074	< 0.00079	< 0.00087	< 0.00077 J	< 0.0008
Acetone	100	0.05	mg/kg	< 0.0017 J	< 0.0018	< 0.0019	< 0.0017	< 0.0018
Benzene	4.8	0.06	mg/kg	< 0.00012	< 0.00013	< 0.00014	< 0.00012	< 0.00013
Bromodichloromethane	NS	NS	mg/kg	< 0.0001	< 0.00011	< 0.00012	< 0.00011	< 0.00011
Bromoform	NS	NS	mg/kg	< 0.00015	< 0.00016	< 0.00017	< 0.00015	< 0.00016
Bromomethane	NS	NS	mg/kg	< 0.00027	< 0.00029	< 0.00031	< 0.00028	< 0.00029
Carbon disulfide	NS	NS	mg/kg	< 0.00012	< 0.00012	< 0.00013	< 0.00012	< 0.00013
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00013 J	< 0.00014	< 0.00015	< 0.00014	< 0.00014
Chlorobenzene	100	1.1	mg/kg	< 0.00011	< 0.00011	< 0.00012	< 0.00011	< 0.00012
Chloroethane	NS	NS	mg/kg	< 0.00022	< 0.00024	< 0.00026	< 0.00023	< 0.00024
Chloroform	49	0.37	mg/kg	< 0.000081	< 0.000087	< 0.000095	< 0.000084	< 0.000089
Chloromethane	NS	NS	mg/kg	< 0.00018	< 0.0002	< 0.00021	< 0.00019	< 0.0002
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00018	< 0.00019	< 0.00021	< 0.00019	< 0.0002
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00014	< 0.00015	< 0.00016	< 0.00014	< 0.00015
Cyclohexane	NS	NS	mg/kg	< 0.00012	< 0.00013	< 0.00014	< 0.00013	< 0.00013
Dibromochloromethane	NS	NS	mg/kg	< 0.00016	< 0.00017	< 0.00019	< 0.00017	< 0.00018
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00022	< 0.00024	< 0.00026	< 0.00023	< 0.00024 J
Ethylbenzene	41	1	mg/kg	< 0.00026	< 0.00028	< 0.0003	< 0.00027	< 0.00028
Freon 113	NS	NS	mg/kg	< 0.00042	< 0.00045	< 0.0005	< 0.00044	< 0.00046
Isopropylbenzene	NS	NS	mg/kg	< 0.000073	< 0.000078	< 0.000086	< 0.000076	< 0.00008
Methyl Acetate	NS	NS	mg/kg	< 0.0026	< 0.0027	< 0.003	< 0.0027 J	< 0.0028
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00023	< 0.00025	< 0.00027	< 0.00024	< 0.00025
Methylcyclohexane	NS	NS	mg/kg	< 0.00017	< 0.00018	< 0.00019	< 0.00017	< 0.00018
Methylene chloride	100	0.05	mg/kg	0.0017 J	0.0078	< 0.0015	0.0018 J	0.0025 J
Styrene	NS	NS	mg/kg	< 0.00009	< 0.000096	< 0.00011	< 0.000094	< 0.000098
Tetrachloroethene	19	1.3	mg/kg	< 0.00017	< 0.00018	< 0.0002	< 0.00018	< 0.00018
Toluene	100	0.7	mg/kg	< 0.0001	0.00025 J	< 0.00012	< 0.00011	< 0.00011
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00023	< 0.00025	< 0.00027	< 0.00024	< 0.00026
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00015	< 0.00016	< 0.00018	< 0.00016	< 0.00017
Trichloroethene	21	0.47	mg/kg	< 0.00017	< 0.00018	< 0.0002	< 0.00018	< 0.00019
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00029	< 0.00031	< 0.00034	< 0.0003	< 0.00032
Vinyl chloride	0.9	0.02	mg/kg	< 0.00014	< 0.00015	< 0.00017	< 0.00015	< 0.00015
Xylene (total)	100	1.6	mg/kg	< 0.00014	< 0.00015	< 0.00016	< 0.00014	< 0.00015
Total TIC, Volatile	NS	NS	mg/kg	0	0.006 JN	0	0	0
SVOCs								
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0041	< 0.0038	< 0.0044	< 0.0041	< 0.0039
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.041	< 0.038	< 0.044	< 0.041	< 0.039
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.033	< 0.031	< 0.036	< 0.033	< 0.032
2,4-Dichlorophenol	NS	NS	mg/kg	< 0.056	< 0.052	< 0.062	< 0.057	< 0.054
2,4-Dimethylphenol	NS	NS	mg/kg	< 0.059	< 0.055	< 0.064	< 0.06 J	< 0.057 J

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID	375-6.8(b)	375-6.8(b)		PE-P1-WEST-22B (8.0-8.5)	PE-P1-WEST-23B (2.5-3.0)	PE-P1-WEST-24B (5.0-5.5)	PE-P1-WEST-1SW(WEST)(4.0')	PE-P1-WEST-2SW (3.5-4.0)
Sample Date	NYS Restricted	NYS Protection		6/18/2013	6/18/2013	6/24/2013	3/28/2013	4/1/2013
SVOCs cont.								
2,4-Dinitrophenol	NS	NS	mg/kg	< 0.043	< 0.04	< 0.047 J	< 0.043	< 0.041 J
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.015	< 0.014	< 0.017 J	< 0.016	< 0.015
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.013	< 0.012	< 0.015 J	< 0.014	< 0.013
2-Chloronaphthalene	NS	NS	mg/kg	< 0.011	< 0.01	< 0.012	< 0.011	< 0.01
2-Chlorophenol	NS	NS	mg/kg	< 0.035	< 0.033	< 0.039	< 0.036	< 0.034
2-Methylnaphthalene	NS	NS	mg/kg	< 0.019	< 0.018	< 0.021	< 0.02	< 0.019
2-Methylphenol	100	0.33	mg/kg	< 0.04	< 0.037	< 0.044	< 0.04	< 0.039
2-Nitroaniline	NS	NS	mg/kg	< 0.015 J	< 0.014 J	< 0.017	< 0.016	< 0.015
2-Nitrophenol	NS	NS	mg/kg	< 0.037	< 0.034	< 0.04 J	< 0.038	< 0.036
3&4-Methylphenol	NS	NS	mg/kg	< 0.044	< 0.041	< 0.049	< 0.045	< 0.043
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0089	< 0.0083	< 0.0097	< 0.009	< 0.0086
3-Nitroaniline	NS	NS	mg/kg	< 0.014	< 0.013	< 0.015	< 0.014	< 0.014
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.043	< 0.04	< 0.047 J	< 0.043	< 0.041
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.013	< 0.012	< 0.014	< 0.013	< 0.012
4-Chloro-3-methyl phenol	NS	NS	mg/kg	< 0.035	< 0.033	< 0.038	< 0.035	< 0.034
4-Chloroaniline	NS	NS	mg/kg	< 0.011	< 0.01	< 0.012	< 0.011	< 0.011
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	< 0.011	< 0.0098	< 0.011	< 0.011	< 0.01
4-Nitroaniline	NS	NS	mg/kg	< 0.014	< 0.013	< 0.015	< 0.014	< 0.013
4-Nitrophenol	NS	NS	mg/kg	< 0.059	< 0.055	< 0.065 J	< 0.06	< 0.057
Acenaphthene	100	98	mg/kg	< 0.01	< 0.0094	< 0.011	< 0.01	< 0.0098
Acenaphthylene	100	107	mg/kg	< 0.011	< 0.01	< 0.012	< 0.011	< 0.011
Acetophenone	NS	NS	mg/kg	< 0.0061	< 0.0057	< 0.0067	< 0.0062	< 0.006
Anthracene	100	1,000	mg/kg	< 0.012	< 0.011	< 0.013	< 0.012	< 0.012
Atrazine	NS	NS	mg/kg	< 0.0069	< 0.0064	< 0.0075	< 0.007	< 0.0067
Benzaldehyde	NS	NS	mg/kg	< 0.008	< 0.0075	< 0.0088 J	< 0.0082	< 0.0078
Benzo(a)anthracene	1	1	mg/kg	< 0.011	< 0.011	< 0.012	< 0.012	< 0.011
Benzo(a)pyrene	1	22	mg/kg	< 0.011	< 0.0099	< 0.012	< 0.011	< 0.01
Benzo(b)fluoranthene	1	1.7	mg/kg	< 0.012	< 0.011	< 0.013	< 0.012	< 0.011
Benzo(g,h,i)perylene	100	1,000	mg/kg	< 0.013	< 0.012	< 0.014	< 0.013	< 0.013 J
Benzo(k)fluoranthene	3.9	1.7	mg/kg	< 0.013	< 0.012	< 0.014	< 0.013	< 0.013
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.014	< 0.013	< 0.015	< 0.014	< 0.014
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.011	< 0.0098	< 0.011	< 0.011	< 0.01
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.01	< 0.0097	< 0.011	< 0.011	< 0.01
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.031	< 0.029	< 0.034	< 0.031	< 0.03 J
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.02	< 0.019	< 0.022	< 0.021	< 0.02
Caprolactam	NS	NS	mg/kg	< 0.011	< 0.01	< 0.012	< 0.011	< 0.011
Carbazole	NS	NS	mg/kg	< 0.016	< 0.015	< 0.018	< 0.016	< 0.016
Chrysene	3.9	1	mg/kg	< 0.012	< 0.011	< 0.013	< 0.012	< 0.011
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.012 J	< 0.011 J	< 0.013	< 0.012	< 0.012 J
Dibenzofuran	59	210	mg/kg	< 0.01	< 0.0097	< 0.011	< 0.011	< 0.01
Diethyl phthalate	NS	NS	mg/kg	< 0.012	< 0.011	< 0.013	< 0.012	< 0.012
Dimethyl phthalate	NS	NS	mg/kg	< 0.012	< 0.011	< 0.013	< 0.012	< 0.012
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0078	< 0.0072	< 0.0085	< 0.0079	< 0.0075
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.017 J	< 0.016 J	< 0.019 J	< 0.017	< 0.016
Fluoranthene	100	1,000	mg/kg	< 0.015	< 0.014	< 0.017	< 0.016	< 0.015
Fluorene	100	386	mg/kg	< 0.011	< 0.011	< 0.013	< 0.012	< 0.011
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.011	< 0.011	< 0.012	< 0.012	< 0.011
Hexachlorobutadiene	NS	NS	mg/kg	< 0.0097	< 0.009	< 0.011	< 0.0099	< 0.0094
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.036	< 0.033	< 0.039 J	< 0.036	< 0.034
Hexachloroethane	NS	NS	mg/kg	< 0.0097	< 0.009	< 0.011	< 0.0099	< 0.0094
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	< 0.012	< 0.011	< 0.013	< 0.012	< 0.012 J
Isophorone	NS	NS	mg/kg	< 0.0094	< 0.0087	< 0.01	< 0.0095	< 0.0091
Naphthalene	100	12	mg/kg	< 0.0095	< 0.0089	< 0.01	< 0.0097	< 0.0092
Nitrobenzene	NS	NS	mg/kg	< 0.01	< 0.0094	< 0.011	< 0.01	< 0.0098
SVOCs cont.								
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0085	< 0.0079	< 0.0093	< 0.0087	< 0.0083
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.021	< 0.019	< 0.023	< 0.021	< 0.02
Pentachlorophenol	6.7	0.8	mg/kg	< 0.06	< 0.056	< 0.065 J	< 0.061	< 0.058
Phenanthrene	100	1,000	mg/kg	< 0.016	< 0.015	< 0.017	< 0.016	< 0.015
Phenol	100	0.33	mg/kg	< 0.037	< 0.034	< 0.04	< 0.037	< 0.036
Pyrene	100	1,000	mg/kg	< 0.013	< 0.012	< 0.015	< 0.014	< 0.013
Total TIC, Semi-Volatile	NS	NS	mg/kg	1.5 JN	0	6.3 JN	1.72 JN	0.25 JN

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P1-WEST-22B (8.0-8.5) 6/18/2013	PE-P1-WEST-23B (2.5-3.0) 6/18/2013	PE-P1-WEST-24B (5.0-5.5) 6/24/2013	PE-P1-WEST-1SW(WEST)(4.0') 3/28/2013	PE-P1-WEST-2SW (3.5-4.0) 4/1/2013
PCBs								
Aroclor 1016	NS	NS	mg/kg	< 0.009	< 0.0092	< 0.01	< 0.0094	< 0.01
Aroclor 1221	NS	NS	mg/kg	< 0.021	< 0.021	< 0.024	< 0.022	< 0.024
Aroclor 1232	NS	NS	mg/kg	< 0.018	< 0.018	< 0.02	< 0.018	< 0.02
Aroclor 1242	NS	NS	mg/kg	< 0.011	< 0.011	< 0.013	< 0.012	< 0.013
Aroclor 1248	NS	NS	mg/kg	< 0.011	< 0.011	< 0.012	< 0.011	< 0.012
Aroclor 1254	NS	NS	mg/kg	< 0.016	< 0.016	< 0.019	< 0.017	< 0.019
Aroclor 1260	NS	NS	mg/kg	< 0.011	< 0.012	< 0.013	< 0.012	< 0.013
Aroclor 1262	NS	NS	mg/kg	< 0.011	< 0.011	< 0.013	NA	NA
Aroclor 1268	NS	NS	mg/kg	< 0.01	< 0.01	< 0.012	NA	NA
Metals								
Aluminum	NS	NS	mg/kg	6720	9690	10900 J	16200	15700
Antimony	NS	NS	mg/kg	0.28 B	0.29 B	< 0.31	0.53 B	0.57 B
Arsenic	16	16	mg/kg	2.4	3.1	4.3	4.9	3.9
Barium	400	820	mg/kg	43.8	33.6	47.5	57.9	55.4
Beryllium	72	47	mg/kg	0.41	0.54	0.82	< 0.75 UB	0.71
Cadmium	4.3	7.5	mg/kg	0.11 B	0.12 B	0.13 B	< 0.54 UB	< 0.03
Calcium	NS	NS	mg/kg	1250	1190	1910	952	654
Chromium	NS	NS	mg/kg	13.6	23.9	29.9	20.4	17.7
Cobalt	NS	NS	mg/kg	6.1	5.9	10.2	8.4	6.9
Copper	270	1,720	mg/kg	12.4	12	16	19.8	10.5
Iron	NS	NS	mg/kg	14000	19100	23300	24700	19700
Lead	400	450	mg/kg	5	4.6	7.1	9.6	10.2
Magnesium	NS	NS	mg/kg	2680	4050	4840	4360	3340
Manganese	2,000	2,000	mg/kg	520	499	542	590	436
Mercury	0.81	0.73	mg/kg	< 0.0045	0.02 B	0.0082 B	0.029 B	0.037 B
Nickel	310	130	mg/kg	13.9	16.2	24.1	19	15.8
Potassium	NS	NS	mg/kg	695 B	620 B	801 B	1100	743 B
Selenium	180	4	mg/kg	0.56 B	0.31 B	< 0.34	0.49 B	< 0.28
Silver	180	8.3	mg/kg	0.56	0.89	0.38 B	0.29 B	0.78
Sodium	NS	NS	mg/kg	104 B	85.9 B	117 B	68.2 B	49.2 B
Thallium	NS	NS	mg/kg	< 0.33	< 0.31	< 0.38	0.38 B	< 0.26
Vanadium	NS	NS	mg/kg	19	29.7	35.7	32.5	27.5
Zinc	10,000	2,480	mg/kg	36	37.1	49.2	58.2	46.6
Other								
Solids, Percent	NS	NS	%	90.6	91.5	80.3	87.5	83.3

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use.
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater.

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P1-WEST-3SW (3.5-4.0) 4/1/2013	PE-P1-WEST-4SW(3.0-3.5) 4/4/2013	DUP (040413) 4/4/2013	PE-P1-WEST-5SW(3.0-3.5) 4/4/2013	PE-P1-WEST-6SW (3.0-3.5) 4/30/2013
VOCs								
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00012	< 0.0001	< 0.000096	< 0.000095	< 0.00012
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00015	< 0.00013	< 0.00012	< 0.00012	< 0.00015
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00019	< 0.00017	< 0.00016	< 0.00016	< 0.00019
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00015	< 0.00013	< 0.00012	< 0.00012	< 0.00015
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00028	< 0.00024	< 0.00023	< 0.00023	< 0.00029
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00015	< 0.00013	< 0.00013	< 0.00012	< 0.00016
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.00099	< 0.00085	< 0.00081	< 0.0008	< 0.00099
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00014	< 0.00012	< 0.00011	< 0.00011	< 0.00014
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.00021	< 0.00018	< 0.00017	< 0.00017	< 0.00021
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00015	< 0.00013	< 0.00012	< 0.00012	< 0.00015
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00017	< 0.00015	< 0.00014	< 0.00014	< 0.00017
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.00021	< 0.00018	< 0.00017	< 0.00017	< 0.00021
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.0002	< 0.00017	< 0.00016	< 0.00016	< 0.0002
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0026	< 0.0023	< 0.0022	< 0.0021	< 0.0027
2-Hexanone	NS	NS	mg/kg	< 0.00069	< 0.00059	< 0.00056	< 0.00056	< 0.00069
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.00083	< 0.00072	< 0.00068	< 0.00067	< 0.00084
Acetone	100	0.05	mg/kg	< 0.0019	< 0.0016	< 0.0015	< 0.0015	< 0.0019
Benzene	4.8	0.06	mg/kg	< 0.00013	< 0.00011	< 0.00011	< 0.00011	< 0.00013
Bromodichloromethane	NS	NS	mg/kg	< 0.00012	< 0.0001	< 0.000095	< 0.000094	< 0.00012
Bromoform	NS	NS	mg/kg	< 0.00017	< 0.00014	< 0.00014	< 0.00014	< 0.00017
Bromomethane	NS	NS	mg/kg	< 0.0003	< 0.00026	< 0.00025	< 0.00024	< 0.0003
Carbon disulfide	NS	NS	mg/kg	< 0.00013	< 0.00011	< 0.00011	< 0.0001	< 0.00013
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00015	< 0.00013	< 0.00012	< 0.00012	< 0.00015
Chlorobenzene	100	1.1	mg/kg	< 0.00012	< 0.0001	< 0.000098	< 0.000097	< 0.00012
Chloroethane	NS	NS	mg/kg	< 0.00025	< 0.00022	< 0.00021	< 0.0002	< 0.00025
Chloroform	49	0.37	mg/kg	< 0.000092	< 0.000079	< 0.000075	< 0.000074	< 0.000092
Chloromethane	NS	NS	mg/kg	< 0.00021	< 0.00018	< 0.00017	< 0.00017	< 0.00021
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.0002	< 0.00017	< 0.00017	< 0.00016	< 0.0002
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00015	< 0.00013	< 0.00013	< 0.00012	< 0.00016
Cyclohexane	NS	NS	mg/kg	< 0.00014	< 0.00012	< 0.00011	< 0.00011	< 0.00014
Dibromochloromethane	NS	NS	mg/kg	< 0.00018	< 0.00016	< 0.00015	< 0.00015	< 0.00018
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00025 J	< 0.00022	< 0.00021	< 0.0002	< 0.00025
Ethylbenzene	41	1	mg/kg	< 0.00029	< 0.00025	< 0.00024	< 0.00024	0.0018
Freon 113	NS	NS	mg/kg	< 0.00048	< 0.00041	< 0.00039	< 0.00039	< 0.00048
Isopropylbenzene	NS	NS	mg/kg	< 0.000082	< 0.000071	< 0.000067	< 0.000067	< 0.000083
Methyl Acetate	NS	NS	mg/kg	< 0.0029	< 0.0025	< 0.0024	< 0.0023	< 0.0029
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00026	< 0.00022	< 0.00021	< 0.00021	< 0.00026
Methylcyclohexane	NS	NS	mg/kg	< 0.00019	< 0.00016	< 0.00015	< 0.00015	< 0.00019
Methylene chloride	100	0.05	mg/kg	0.0017 J	< 0.0012	0.0015 J	< 0.0011	0.0025 J
Styrene	NS	NS	mg/kg	< 0.0001	< 0.000087	< 0.000083	< 0.000082	< 0.0001
Tetrachloroethene	19	1.3	mg/kg	< 0.00019	< 0.00016	< 0.00016	< 0.00015	< 0.00019
Toluene	100	0.7	mg/kg	< 0.00012	< 0.0001	< 0.000095	< 0.000094	0.00064 J
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00026	< 0.00023	< 0.00022	< 0.00021	< 0.00027
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00017	< 0.00015	< 0.00014	< 0.00014	< 0.00017
Trichloroethene	21	0.47	mg/kg	< 0.00019	< 0.00017	< 0.00016	< 0.00016	< 0.00019
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00033	< 0.00028	< 0.00027	< 0.00027	< 0.00033
Vinyl chloride	0.9	0.02	mg/kg	< 0.00016	< 0.00014	< 0.00013	< 0.00013	< 0.00016
Xylene (total)	100	1.6	mg/kg	< 0.00015	0.00064 J	0.00056 J	< 0.00012	0.0106
Total TIC, Volatile	NS	NS	mg/kg	0	0	0	0	0
SVOCs								
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0036	< 0.0042	< 0.0043	< 0.0037	< 0.0093
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.036	< 0.042 J	< 0.043 J	< 0.037 J	< 0.093
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.029	< 0.034 J	< 0.034 J	< 0.03 J	< 0.076
2,4-Dichlorophenol	NS	NS	mg/kg	< 0.05	< 0.058 J	< 0.059 J	< 0.051 J	< 0.13
2,4-Dimethylphenol	NS	NS	mg/kg	< 0.052 J	< 0.061	< 0.062	< 0.053	< 0.14

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P1-WEST-3SW (3.5-4.0) 4/1/2013	PE-P1-WEST-4SW(3.0-3.5) 4/4/2013	DUP (040413) 4/4/2013	PE-P1-WEST-5SW(3.0-3.5) 4/4/2013	PE-P1-WEST-6SW (3.0-3.5) 4/30/2013
SVOCs cont.								
2,4-Dinitrophenol	NS	NS	mg/kg	< 0.038 J	< 0.044	< 0.045	< 0.039	< 0.098 J
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.014	< 0.016 J	< 0.016 J	< 0.014 J	< 0.035
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.012	< 0.014	< 0.014	< 0.012	< 0.031
2-Chloronaphthalene	NS	NS	mg/kg	< 0.0096	< 0.011	< 0.011	< 0.0098	< 0.025
2-Chlorophenol	NS	NS	mg/kg	< 0.031	< 0.036	< 0.037	< 0.032	< 0.081
2-Methylnaphthalene	NS	NS	mg/kg	< 0.017	< 0.02	< 0.02	< 0.018	0.0514 J
2-Methylphenol	100	0.33	mg/kg	< 0.035	< 0.041	< 0.042	< 0.036	< 0.092
2-Nitroaniline	NS	NS	mg/kg	< 0.014	< 0.016 J	< 0.016 J	< 0.014 J	< 0.035 J
2-Nitrophenol	NS	NS	mg/kg	< 0.033	< 0.038 J	< 0.039 J	< 0.033 J	< 0.085
3&4-Methylphenol	NS	NS	mg/kg	< 0.039	< 0.046	< 0.047	< 0.04	< 0.1
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0079	< 0.0092	< 0.0093	< 0.008	< 0.02 J
3-Nitroaniline	NS	NS	mg/kg	< 0.012	< 0.014	< 0.015	< 0.013	< 0.032 J
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.038	< 0.044	< 0.045	< 0.039	< 0.098
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.011	< 0.013	< 0.013	< 0.011	< 0.029
4-Chloro-3-methyl phenol	NS	NS	mg/kg	< 0.031	< 0.036 J	< 0.037 J	< 0.032 J	< 0.081
4-Chloroaniline	NS	NS	mg/kg	< 0.0099	< 0.012	< 0.012	< 0.01	< 0.026
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	< 0.0093	< 0.011 J	< 0.011 J	< 0.0095 J	< 0.024
4-Nitroaniline	NS	NS	mg/kg	< 0.012	< 0.014	< 0.014	< 0.012	< 0.031 J
4-Nitrophenol	NS	NS	mg/kg	< 0.052	< 0.061	< 0.062	< 0.053	< 0.14 J
Acenaphthene	100	98	mg/kg	< 0.009	< 0.01	< 0.011	< 0.0092	< 0.023
Acenaphthylene	100	107	mg/kg	< 0.0099	< 0.012	< 0.012	< 0.01	< 0.026
Acetophenone	NS	NS	mg/kg	< 0.0055	< 0.0063	< 0.0065	< 0.0056	< 0.014
Anthracene	100	1,000	mg/kg	< 0.011	< 0.013	< 0.013	< 0.011	< 0.028
Atrazine	NS	NS	mg/kg	< 0.0061	< 0.0071	< 0.0072	< 0.0062	< 0.016
Benzaldehyde	NS	NS	mg/kg	< 0.0071	< 0.0083	< 0.0084	< 0.0073	R
Benzo(a)anthracene	1	1	mg/kg	< 0.01	< 0.012	< 0.012	< 0.01	< 0.026
Benzo(a)pyrene	1	22	mg/kg	< 0.0094	< 0.011	< 0.011	< 0.0096	< 0.025
Benzo(b)fluoranthene	1	1.7	mg/kg	< 0.01	< 0.012 J	< 0.012 J	< 0.011 J	< 0.027
Benzo(g,h,i)perylene	100	1,000	mg/kg	< 0.012 J	< 0.013	< 0.014	< 0.012	< 0.03
Benzo(k)fluoranthene	3.9	1.7	mg/kg	< 0.012	< 0.014	< 0.014	< 0.012	< 0.03
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.013	< 0.015	< 0.015	< 0.013	< 0.033
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.0093	< 0.011	< 0.011	< 0.0095	< 0.024
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.0092	< 0.011	< 0.011	< 0.0094	< 0.024
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.027 J	< 0.032	< 0.032	< 0.028	< 0.071 J
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.018	< 0.021	< 0.021	< 0.018	< 0.047 J
Caprolactam	NS	NS	mg/kg	< 0.0098	< 0.011	< 0.012	< 0.0099	< 0.025
Carbazole	NS	NS	mg/kg	< 0.014	< 0.017	< 0.017	< 0.015	< 0.037
Chrysene	3.9	1	mg/kg	< 0.01	< 0.012	< 0.012	< 0.011	< 0.027
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.011 J	< 0.012 J	< 0.013 J	< 0.011 J	< 0.027
Dibenzofuran	59	210	mg/kg	< 0.0092	< 0.011	< 0.011	< 0.0094	< 0.024
Diethyl phthalate	NS	NS	mg/kg	< 0.011	< 0.012	< 0.013	< 0.011	< 0.027
Dimethyl phthalate	NS	NS	mg/kg	< 0.011	< 0.013	< 0.013	< 0.011	< 0.028
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0069	< 0.008	< 0.0081	< 0.007	< 0.018
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.015	< 0.018 J	< 0.018 J	< 0.015 J	< 0.039
Fluoranthene	100	1,000	mg/kg	< 0.014	< 0.016	< 0.016	< 0.014	< 0.036
Fluorene	100	386	mg/kg	< 0.01	< 0.012	< 0.012	< 0.01	< 0.026
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.01	< 0.012	< 0.012	< 0.01	< 0.026
Hexachlorobutadiene	NS	NS	mg/kg	< 0.0086	< 0.01	< 0.01	< 0.0088	< 0.022
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.032	< 0.037	< 0.037	< 0.032	< 0.082
Hexachloroethane	NS	NS	mg/kg	< 0.0086	< 0.01	< 0.01	< 0.0088	< 0.022
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	< 0.011 J	< 0.013	< 0.013	< 0.011	< 0.028
Isophorone	NS	NS	mg/kg	< 0.0083	< 0.0097	< 0.0099	< 0.0085	< 0.022
Naphthalene	100	12	mg/kg	< 0.0085	< 0.0098	< 0.01	< 0.0086	0.0736 J
Nitrobenzene	NS	NS	mg/kg	< 0.0089	< 0.01	< 0.011	< 0.0091	< 0.023
SVOCs cont.								
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0076	< 0.0088	< 0.0089	< 0.0077	< 0.02
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.018	< 0.022	< 0.022	< 0.019	< 0.048
Pentachlorophenol	6.7	0.8	mg/kg	< 0.053	< 0.062	< 0.063	< 0.054	< 0.14
Phenanthrene	100	1,000	mg/kg	< 0.014	< 0.016	< 0.017	< 0.014	< 0.037
Phenol	100	0.33	mg/kg	< 0.033	< 0.038	< 0.038	< 0.033	< 0.085
Pyrene	100	1,000	mg/kg	< 0.012	< 0.014	< 0.014	< 0.012	< 0.031
Total TIC, Semi-Volatile	NS	NS	mg/kg	0	0.15 J	0.4 J	0	0

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P1-WEST-3SW (3.5-4.0) 4/1/2013	PE-P1-WEST-4SW(3.0-3.5) 4/4/2013	DUP (040413) 4/4/2013	PE-P1-WEST-5SW(3.0-3.5) 4/4/2013	PE-P1-WEST-6SW (3.0-3.5) 4/30/2013
PCBs								
Aroclor 1016	NS	NS	mg/kg	< 0.0093	< 0.0096 J	< 0.0094 J	< 0.0091 J	< 0.01
Aroclor 1221	NS	NS	mg/kg	< 0.022	< 0.022 J	< 0.022 J	< 0.021 J	< 0.024
Aroclor 1232	NS	NS	mg/kg	< 0.018	< 0.019 J	< 0.018 J	< 0.018 J	< 0.02
Aroclor 1242	NS	NS	mg/kg	< 0.011	< 0.012	< 0.011	< 0.011	< 0.013
Aroclor 1248	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	< 0.011	< 0.012
Aroclor 1254	NS	NS	mg/kg	< 0.017	< 0.017	< 0.017	< 0.016	< 0.019
Aroclor 1260	NS	NS	mg/kg	< 0.012	< 0.012	< 0.012	< 0.011	< 0.013
Aroclor 1262	NS	NS	mg/kg	NA	NA	NA	NA	< 0.013
Aroclor 1268	NS	NS	mg/kg	NA	NA	NA	NA	< 0.012
Metals								
Aluminum	NS	NS	mg/kg	13600	17300	16900	16500	11500
Antimony	NS	NS	mg/kg	0.58 B	0.84 J	0.73 J	0.59 J	2.4
Arsenic	16	16	mg/kg	3.6	3.6	3.6	2.8	5.6
Barium	400	820	mg/kg	49.7	58.2	52.9	48.3	457
Beryllium	72	47	mg/kg	0.71	0.93	0.74	0.78	0.55
Cadmium	4.3	7.5	mg/kg	< 0.027	0.086 B	0.069 B	0.045 B	0.15 B
Calcium	NS	NS	mg/kg	730	1250 J	1640 J	1270 J	2660
Chromium	NS	NS	mg/kg	14.7	27.3 J	26.1 J	25.5 J	25.6
Cobalt	NS	NS	mg/kg	8	8.9 J	9.8 J	7.3 J	8.2
Copper	270	1,720	mg/kg	18.3	14 J	15.6 J	11.1 J	21.3
Iron	NS	NS	mg/kg	21900	26300 J	25900 J	19300 J	22300
Lead	400	450	mg/kg	10.3	7.6	7.9	12	257
Magnesium	NS	NS	mg/kg	3840	3520	4350	3060	4570
Manganese	2,000	2,000	mg/kg	332	788 J	718 J	235 J	396
Mercury	0.81	0.73	mg/kg	0.021 B	0.043	0.039	0.039	0.025 B
Nickel	310	130	mg/kg	16.4	19	20.5	15.4	17.8
Potassium	NS	NS	mg/kg	1010 B	677 B	790 B	531 B	1510
Selenium	180	4	mg/kg	< 0.26	1.1 B	1 B	0.97 B	< 0.29
Silver	180	8.3	mg/kg	0.85	0.25 B	0.35 B	0.45 B	0.84 J
Sodium	NS	NS	mg/kg	61.2 B	89.6 B	136 B	99.6 B	200 B
Thallium	NS	NS	mg/kg	< 0.23	0.5 B	< 0.25	0.57 B	< 0.27
Vanadium	NS	NS	mg/kg	27.1	43.1	41.8	39.5	32.1
Zinc	10,000	2,480	mg/kg	66	53.4 J	50 J	48.5 J	66.1
Other								
Solids, Percent	NS	NS	%	90.2	88.9	87.7	91.5	81.4

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use.
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater.

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID	375-6.8(b)	375-6.8(b)		PE-P1-WEST-7SW (3.0-3.5)	PE-P1-WEST-8SW (4.0-4.5)	PE-P1-WEST-9SW (5.0-5.5)	PE-P1-WEST-10SW (3.5-4.0)	PE-P1-WEST-11SW (3.5-4.0)
Sample Date	NYS Restricted	NYS Protection		5/30/2013	5/30/2013	5/31/2013	6/4/2013	6/5/2013
VOCs								
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00011	< 0.00011	< 0.00013	< 0.00014	< 0.00011
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00014	< 0.00014	< 0.00016	< 0.00018	< 0.00014
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00019	< 0.00018	< 0.00021	< 0.00024	< 0.00018
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00015	< 0.00014	< 0.00016	< 0.00019	< 0.00014
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00028	< 0.00027	< 0.00031	< 0.00035	< 0.00027
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00015	< 0.00014	< 0.00017	< 0.00019	< 0.00015
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.00097 J	< 0.00093 J	< 0.0011	< 0.0012	< 0.00093
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00014	< 0.00013	< 0.00015	< 0.00017	< 0.00013
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.0002	< 0.0002	< 0.00023	< 0.00026	< 0.0002
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00015	< 0.00014	< 0.00016	< 0.00018	< 0.00014
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00017	< 0.00016	< 0.00019	< 0.00021	< 0.00016
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.0002	< 0.00019	< 0.00022	< 0.00025	< 0.0002
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00019	< 0.00018	< 0.00021	< 0.00024	< 0.00018
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0026 J	< 0.0025 J	< 0.0029	< 0.0033	< 0.0025
2-Hexanone	NS	NS	mg/kg	< 0.00067 J	< 0.00065 J	< 0.00075 J	< 0.00085	< 0.00065
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.00081 J	< 0.00078 J	< 0.0009	< 0.001	< 0.00079
Acetone	100	0.05	mg/kg	< 0.0018	< 0.0018	< 0.002 J	< 0.0023	0.222
Benzene	4.8	0.06	mg/kg	< 0.00013	< 0.00012	< 0.00014	< 0.00016	< 0.00012
Bromodichloromethane	NS	NS	mg/kg	< 0.00011	< 0.00011	< 0.00013	< 0.00014	< 0.00011
Bromoform	NS	NS	mg/kg	< 0.00016	< 0.00016	< 0.00018	< 0.00021	< 0.00016
Bromomethane	NS	NS	mg/kg	< 0.0003	< 0.00028	< 0.00033	< 0.00037	< 0.00029
Carbon disulfide	NS	NS	mg/kg	< 0.00013	< 0.00012	< 0.00014	< 0.00016	< 0.00012
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00014	< 0.00014	< 0.00016	< 0.00018	< 0.00014
Chlorobenzene	100	1.1	mg/kg	< 0.00012	< 0.00011	< 0.00013	< 0.00015	< 0.00011
Chloroethane	NS	NS	mg/kg	< 0.00025	< 0.00024	< 0.00027	< 0.00031	< 0.00024
Chloroform	49	0.37	mg/kg	< 0.00009	< 0.000086	< 0.000099	< 0.00011	< 0.000087
Chloromethane	NS	NS	mg/kg	< 0.0002	< 0.00019	< 0.00022	< 0.00025	< 0.0002
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.0002	< 0.00019	< 0.00022	< 0.00025	< 0.00019
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00015	< 0.00014	< 0.00017	< 0.00019	< 0.00015
Cyclohexane	NS	NS	mg/kg	< 0.00013	< 0.00013	< 0.00015	< 0.00017	< 0.00013
Dibromochloromethane	NS	NS	mg/kg	< 0.00018	< 0.00017	< 0.0002	< 0.00022	< 0.00017
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00025	< 0.00024	< 0.00027	< 0.00031	< 0.00024
Ethylbenzene	41	1	mg/kg	< 0.00029	< 0.00027	0.00048 J	< 0.00036	< 0.00028
Freon 113	NS	NS	mg/kg	< 0.00047	< 0.00045	< 0.00052	< 0.00059	< 0.00045
Isopropylbenzene	NS	NS	mg/kg	< 0.000081	< 0.000077	< 0.000089	< 0.0001	< 0.000078
Methyl Acetate	NS	NS	mg/kg	< 0.0028	< 0.0027	< 0.0031 J	< 0.0035	< 0.0027
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00025	< 0.00024	< 0.00028	< 0.00032	< 0.00025
Methylcyclohexane	NS	NS	mg/kg	< 0.00018	< 0.00018	< 0.0002	< 0.00023	< 0.00018
Methylene chloride	100	0.05	mg/kg	0.0043 J	0.0038 J	0.0038 J	< 0.0068 UB	< 0.0052 UB
Styrene	NS	NS	mg/kg	< 0.000099	< 0.000095	< 0.00011	< 0.00013	< 0.000096
Tetrachloroethene	19	1.3	mg/kg	< 0.00019	< 0.00018	< 0.00021	< 0.00023	< 0.00018
Toluene	100	0.7	mg/kg	< 0.00011	< 0.00011	0.00071 J	< 0.00014	< 0.00011
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00026	< 0.00025	< 0.00029	< 0.00032	< 0.00025
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00017	< 0.00016	< 0.00019	< 0.00021	< 0.00016
Trichloroethene	21	0.47	mg/kg	< 0.00019	< 0.00018	< 0.00021	< 0.00024	< 0.00018
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00032	< 0.00031	< 0.00036	< 0.00041	< 0.00031
Vinyl chloride	0.9	0.02	mg/kg	< 0.00016	< 0.00015	< 0.00017	< 0.0002	< 0.00015
Xylene (total)	100	1.6	mg/kg	< 0.00015	< 0.00014	0.003	< 0.00019	< 0.00015
Total TIC, Volatile	NS	NS	mg/kg	0	0	0	0.017 JN	0.011 JN
SVOCs								
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0041	< 0.0093	< 0.0043 J	< 0.0039	< 0.0044
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.041	< 0.093 J	< 0.043	< 0.039	< 0.044
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.033	< 0.075	< 0.035	< 0.032	< 0.036
2,4-Dichlorophenol	NS	NS	mg/kg	< 0.057	< 0.13	< 0.06	< 0.054	< 0.061
2,4-Dimethylphenol	NS	NS	mg/kg	< 0.059	< 0.13 J	< 0.063	< 0.057	< 0.064

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID	375-6.8(b)	375-6.8(b)		PE-P1-WEST-7SW (3.0-3.5)	PE-P1-WEST-8SW (4.0-4.5)	PE-P1-WEST-9SW (5.0-5.5)	PE-P1-WEST-10SW (3.5-4.0)	PE-P1-WEST-11SW (3.5-4.0)
Sample Date	NYS Restricted	NYS Protection		5/30/2013	5/30/2013	5/31/2013	6/4/2013	6/5/2013
SVOCs cont.								
2,4-Dinitrophenol	NS	NS	mg/kg	< 0.043 J	< 0.098 J	< 0.046 J	< 0.041 J	< 0.047 J
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.015 J	< 0.035 J	< 0.016	< 0.015 J	< 0.017 J
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.013 J	< 0.031 J	< 0.014	< 0.013 J	< 0.015 J
2-Chloronaphthalene	NS	NS	mg/kg	< 0.011	< 0.025	< 0.012 J	< 0.01	< 0.012
2-Chlorophenol	NS	NS	mg/kg	< 0.036	< 0.081 J	< 0.038	< 0.034	< 0.039
2-Methylnaphthalene	NS	NS	mg/kg	< 0.02	< 0.045	< 0.021	< 0.019	< 0.021
2-Methylphenol	100	0.33	mg/kg	< 0.04	< 0.091 J	< 0.043	< 0.039	< 0.043
2-Nitroaniline	NS	NS	mg/kg	< 0.016 J	< 0.035 J	< 0.016	< 0.015	< 0.017
2-Nitrophenol	NS	NS	mg/kg	< 0.037 J	< 0.085 J	< 0.04	< 0.036	< 0.04
3&4-Methylphenol	NS	NS	mg/kg	< 0.045	< 0.1 J	< 0.048	< 0.043	< 0.048
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.009	< 0.02	< 0.0095	< 0.0086	< 0.0097
3-Nitroaniline	NS	NS	mg/kg	< 0.014	< 0.032 J	< 0.015	< 0.014	< 0.015
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.043 J	< 0.098 J	< 0.046 J	< 0.041 J	< 0.047 J
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.013	< 0.029	< 0.014	< 0.012	< 0.014
4-Chloro-3-methyl phenol	NS	NS	mg/kg	< 0.035	< 0.08 J	< 0.037	< 0.034	< 0.038
4-Chloroaniline	NS	NS	mg/kg	< 0.011	< 0.026 J	< 0.012	< 0.011	< 0.012
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	< 0.011	< 0.024	< 0.011	< 0.01	< 0.011
4-Nitroaniline	NS	NS	mg/kg	< 0.014	< 0.031 J	< 0.015	< 0.013	< 0.015
4-Nitrophenol	NS	NS	mg/kg	< 0.06 J	< 0.14 J	< 0.063	< 0.057 J	< 0.064 J
Acenaphthene	100	98	mg/kg	< 0.01	< 0.023	< 0.011	< 0.0098	< 0.011
Acenaphthylene	100	107	mg/kg	< 0.011	< 0.026	< 0.012	< 0.011	< 0.012
Acetophenone	NS	NS	mg/kg	< 0.0062	< 0.014 J	< 0.0066	< 0.0059	< 0.0067
Anthracene	100	1,000	mg/kg	< 0.012	< 0.028	< 0.013	< 0.012	< 0.013
Atrazine	NS	NS	mg/kg	< 0.0069 J	< 0.016 J	< 0.0074	< 0.0067	< 0.0075
Benzaldehyde	NS	NS	mg/kg	< 0.0081 J	0.114 J	< 0.0086 J	< 0.0078 J	< 0.0088 J
Benzo(a)anthracene	1	1	mg/kg	0.0143 J	< 0.026	< 0.012	< 0.011	< 0.012
Benzo(a)pyrene	1	22	mg/kg	< 0.011	< 0.024	< 0.011	< 0.01	< 0.012
Benzo(b)fluoranthene	1	1.7	mg/kg	< 0.012	< 0.027	< 0.013	< 0.011	< 0.013
Benzo(g,h,i)perylene	100	1,000	mg/kg	< 0.013	< 0.03	< 0.014	< 0.013	< 0.014
Benzo(k)fluoranthene	3.9	1.7	mg/kg	< 0.013	< 0.03	< 0.014	< 0.013	< 0.014
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.014	< 0.032	< 0.015	< 0.014	< 0.015
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.011	< 0.024 J	< 0.011 J	< 0.01	< 0.011
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.01 J	< 0.024 J	< 0.011	< 0.01	< 0.011
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	0.0378 J	< 0.071 J	0.0978	< 0.03 J	< 0.034 J
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.02	< 0.046	< 0.022	< 0.02	< 0.022
Caprolactam	NS	NS	mg/kg	< 0.011	< 0.025 J	< 0.012	< 0.011	< 0.012
Carbazole	NS	NS	mg/kg	< 0.016	< 0.037 J	< 0.017	< 0.016	< 0.018
Chrysene	3.9	1	mg/kg	0.0163 J	< 0.027	< 0.013	< 0.011	< 0.013
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.012	< 0.027	< 0.013	< 0.012	< 0.013
Dibenzofuran	59	210	mg/kg	< 0.01	< 0.024	< 0.011 J	< 0.01	< 0.011
Diethyl phthalate	NS	NS	mg/kg	< 0.012	< 0.027 J	< 0.013	< 0.012	< 0.013
Dimethyl phthalate	NS	NS	mg/kg	0.0604 J	< 0.028 J	0.0503 J	< 0.012	< 0.013
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0078	< 0.018	< 0.0083	< 0.0075	< 0.0085
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.017 J	< 0.039 J	< 0.018	< 0.016 J	< 0.019 J
Fluoranthene	100	1,000	mg/kg	0.0226 J	< 0.035	< 0.017	< 0.015	< 0.017
Fluorene	100	386	mg/kg	< 0.012	< 0.026	< 0.012	< 0.011	< 0.013
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.011	< 0.026	< 0.012	< 0.011	< 0.012
Hexachlorobutadiene	NS	NS	mg/kg	< 0.0098	< 0.022	< 0.01	< 0.0094	< 0.011
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.036 J	< 0.082 J	< 0.038 J	< 0.034 J	< 0.039 J
Hexachloroethane	NS	NS	mg/kg	< 0.0098	< 0.022	< 0.01	< 0.0094	< 0.011
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	< 0.012	< 0.028	< 0.013	< 0.012	< 0.013
Isophorone	NS	NS	mg/kg	< 0.0095	< 0.022 J	< 0.01	< 0.0091	< 0.01
Naphthalene	100	12	mg/kg	< 0.0096	< 0.022	< 0.01 J	< 0.0092	< 0.01
Nitrobenzene	NS	NS	mg/kg	< 0.01	< 0.023	< 0.011 J	< 0.0098	< 0.011
SVOCs cont.								
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0086 J	< 0.02 J	< 0.0091	< 0.0082	< 0.0093
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.021	< 0.048	< 0.022	< 0.02	< 0.023
Pentachlorophenol	6.7	0.8	mg/kg	< 0.06 J	< 0.14 J	< 0.064	< 0.058 J	< 0.065 J
Phenanthrene	100	1,000	mg/kg	< 0.016	< 0.036	< 0.017	< 0.015	< 0.017
Phenol	100	0.33	mg/kg	< 0.037	< 0.084 J	< 0.039	< 0.035	< 0.04
Pyrene	100	1,000	mg/kg	0.0225 J	< 0.031	< 0.014	< 0.013	< 0.015
Total TIC, Semi-Volatile	NS	NS	mg/kg	1.12 JN	0	1.74 JN	0.72 JN	0.82 JN

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P1-WEST-7SW (3.0-3.5) 5/30/2013	PE-P1-WEST-8SW (4.0-4.5) 5/30/2013	PE-P1-WEST-9SW (5.0-5.5) 5/31/2013	PE-P1-WEST-10SW (3.5-4.0) 6/4/2013	PE-P1-WEST-11SW (3.5-4.0) 6/5/2013
PCBs								
Aroclor 1016	NS	NS	mg/kg	< 0.0096	< 0.01	< 0.011	< 0.01	< 0.0095
Aroclor 1221	NS	NS	mg/kg	< 0.022	< 0.024	< 0.025	< 0.023	< 0.022
Aroclor 1232	NS	NS	mg/kg	< 0.019	< 0.02	< 0.021	< 0.019	< 0.019
Aroclor 1242	NS	NS	mg/kg	< 0.012	< 0.013	< 0.013	< 0.012	< 0.012
Aroclor 1248	NS	NS	mg/kg	< 0.011	< 0.012	< 0.012	< 0.012	< 0.011
Aroclor 1254	NS	NS	mg/kg	< 0.017	< 0.019	< 0.019	< 0.018	< 0.017
Aroclor 1260	NS	NS	mg/kg	< 0.012	< 0.013	< 0.013	< 0.013	< 0.012
Aroclor 1262	NS	NS	mg/kg	< 0.012	< 0.013	< 0.013	< 0.012	< 0.012
Aroclor 1268	NS	NS	mg/kg	< 0.011	< 0.012	< 0.012	< 0.011	< 0.011
Metals								
Aluminum	NS	NS	mg/kg	15200 J	16900 J	14400	15000 J	12300 J
Antimony	NS	NS	mg/kg	1.6 J	< 0.29 J	< 0.31	< 0.27 J	< 0.27 J
Arsenic	16	16	mg/kg	5	2.6	2.5 B	1.8 B	3.2
Barium	400	820	mg/kg	168	59.9	55.9	51.9	44.4
Beryllium	72	47	mg/kg	0.78	0.94	0.94	1	0.73
Cadmium	4.3	7.5	mg/kg	< 0.08	0.12 B	0.14 B	0.1 B	0.14 B
Calcium	NS	NS	mg/kg	1640	1190	1980	1530	1340
Chromium	NS	NS	mg/kg	25	31.6	28.7	30.4	20.3
Cobalt	NS	NS	mg/kg	7.8	8.3	7.8	7.2	7.5
Copper	270	1,720	mg/kg	21.8	5.3	10.3	4.9	17.1
Iron	NS	NS	mg/kg	21100 J	24300 J	18400	15200 J	19600 J
Lead	400	450	mg/kg	129	5.3	8.9	5	18.3
Magnesium	NS	NS	mg/kg	3690	3320	4200	2840 J	3560 J
Manganese	2,000	2,000	mg/kg	617 J	229 J	181	92.7 J	373 J
Mercury	0.81	0.73	mg/kg	< 0.055 UB	< 0.04 UB	0.06	0.019 B	0.036 B
Nickel	310	130	mg/kg	17.7	15	17.9	12.7	16
Potassium	NS	NS	mg/kg	968 B	542 B	813 B	428 J	773 J
Selenium	180	4	mg/kg	< 0.29	< 0.32	< 0.33	< 0.29	< 0.3
Silver	180	8.3	mg/kg	0.81	0.63	0.28 B	0.35 B	0.54 B
Sodium	NS	NS	mg/kg	119 B	116 B	138 B	117 J	84.5 B
Thallium	NS	NS	mg/kg	< 0.33	< 0.36	< 0.38	< 0.33	< 0.34
Vanadium	NS	NS	mg/kg	33.3	44.9	38.9	40.9 J	29.2 J
Zinc	10,000	2,480	mg/kg	77.8	46.9	43	46.6 J	54 J
Other								
Solids, Percent	NS	NS	%	87	81.5	78.5	85.3	85.1

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use.
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater.

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID	375-6.8(b)	375-6.8(b)		PE-P1-WEST-12SW (3.5-4.0)	PE-P1-WEST-13SW(2.5-3.0)	PE-P1-WEST-14SW(3.5-4.0)	PE-P1-WEST-15SW (2.5-3.0)	PE-P1-WEST-16SW (1.5-2.0)
Sample Date	NYS Restricted	NYS Protection		6/5/2013	6/12/2013	6/12/2013	6/17/2013	6/18/2013
VOCs								
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00012	< 0.0001	< 0.00012	< 0.00012 J	< 0.00011
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00015	< 0.00013	< 0.00015	< 0.00015	< 0.00014
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.0002	< 0.00017	< 0.0002	< 0.0002	< 0.00018
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00016	< 0.00013	< 0.00015	< 0.00016	< 0.00015
1,1-Dichloroethene	100	0.33	mg/kg	< 0.0003	< 0.00025	< 0.00029	< 0.00029	< 0.00027
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00016	< 0.00014	< 0.00016	< 0.00016	< 0.00015
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.001	< 0.00087	< 0.001	< 0.001	< 0.00094
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00015	< 0.00012	< 0.00014	< 0.00015	< 0.00013
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.00022	< 0.00018	< 0.00021	< 0.00022	< 0.0002
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00016	< 0.00013	< 0.00015	< 0.00015	< 0.00014
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00018	< 0.00015	< 0.00017	< 0.00018	< 0.00016
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.00022	< 0.00018	< 0.00021	< 0.00021	< 0.0002
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.0002	< 0.00017	< 0.0002	< 0.0002	< 0.00019
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0027	< 0.0023	< 0.0027	< 0.0027	< 0.0025
2-Hexanone	NS	NS	mg/kg	< 0.00072	< 0.00061	< 0.0007	< 0.00071	< 0.00066
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.00086	< 0.00073	< 0.00085	< 0.00086 J	< 0.0008
Acetone	100	0.05	mg/kg	< 0.0019	< 0.0016	< 0.0019	< 0.0019	0.0067 J
Benzene	4.8	0.06	mg/kg	< 0.00014	< 0.00012	< 0.00013	< 0.00014	< 0.00013
Bromodichloromethane	NS	NS	mg/kg	< 0.00012	< 0.0001	< 0.00012	< 0.00012	< 0.00011
Bromoform	NS	NS	mg/kg	< 0.00017	< 0.00015	< 0.00017	< 0.00017	< 0.00016
Bromomethane	NS	NS	mg/kg	< 0.00031	< 0.00027	< 0.00031	< 0.00031	< 0.00029
Carbon disulfide	NS	NS	mg/kg	< 0.00013	< 0.00011	< 0.00013	< 0.00013	< 0.00012
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00015	< 0.00013	< 0.00015	< 0.00015	< 0.00014
Chlorobenzene	100	1.1	mg/kg	< 0.00012	< 0.00011	< 0.00012	< 0.00012	< 0.00011
Chloroethane	NS	NS	mg/kg	< 0.00026	< 0.00022	< 0.00026	< 0.00026	< 0.00024
Chloroform	49	0.37	mg/kg	< 0.000095	< 0.000081	< 0.000093	< 0.000095	< 0.000088
Chloromethane	NS	NS	mg/kg	< 0.00021	< 0.00018	< 0.00021	< 0.00021	< 0.0002
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00021	< 0.00018	< 0.00021	< 0.00021	< 0.00019
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00016	< 0.00014	< 0.00016	< 0.00016	< 0.00015
Cyclohexane	NS	NS	mg/kg	< 0.00014	< 0.00012	< 0.00014	< 0.00014	< 0.00013
Dibromochloromethane	NS	NS	mg/kg	< 0.00019	< 0.00016	< 0.00019	< 0.00019	< 0.00017
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00026	< 0.00022	< 0.00026	< 0.00026 J	< 0.00024
Ethylbenzene	41	1	mg/kg	< 0.0003	< 0.00026	< 0.0003	< 0.0003	0.00063 J
Freon 113	NS	NS	mg/kg	< 0.00049	< 0.00042	< 0.00049	< 0.00049	< 0.00046
Isopropylbenzene	NS	NS	mg/kg	< 0.000085	< 0.000073	< 0.000084	< 0.000085	< 0.000079
Methyl Acetate	NS	NS	mg/kg	< 0.003	< 0.0025	< 0.0029	< 0.003	< 0.0028
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00027	< 0.00023	< 0.00027	< 0.00027	< 0.00025
Methylcyclohexane	NS	NS	mg/kg	< 0.00019	< 0.00016	< 0.00019	< 0.00019	< 0.00018
Methylene chloride	100	0.05	mg/kg	< 0.0057 UB	0.003 J	0.0036 J	0.0081	0.0127
Styrene	NS	NS	mg/kg	< 0.00011	< 0.000089	< 0.0001	< 0.00011	< 0.000097
Tetrachloroethene	19	1.3	mg/kg	< 0.0002	< 0.00017	< 0.00019	< 0.0002	< 0.00018
Toluene	100	0.7	mg/kg	< 0.00012	0.0003 J	< 0.00012	< 0.00012	0.00045 J
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00027	< 0.00023	< 0.00027	< 0.00027	< 0.00025
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00018	< 0.00015	< 0.00017	< 0.00018	< 0.00016
Trichloroethene	21	0.47	mg/kg	< 0.0002	< 0.00017	< 0.0002	< 0.0002	< 0.00018
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00034	0.0011 J	< 0.00034	< 0.00034 J	< 0.00032
Vinyl chloride	0.9	0.02	mg/kg	< 0.00017	< 0.00014	< 0.00016	< 0.00017	< 0.00015
Xylene (total)	100	1.6	mg/kg	< 0.00016	0.0016	< 0.00016	< 0.00016	0.0053
Total TIC, Volatile	NS	NS	mg/kg	0	0	0	0	0.0077 JN
SVOCs								
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0037	< 0.0039	< 0.0038 J	< 0.004	< 0.0044
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.037	< 0.039	< 0.038	< 0.04	< 0.044
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.03	< 0.031	< 0.031	< 0.033	< 0.036
2,4-Dichlorophenol	NS	NS	mg/kg	< 0.052	< 0.054	< 0.053	< 0.056	< 0.062
2,4-Dimethylphenol	NS	NS	mg/kg	< 0.054	< 0.056	< 0.056	< 0.059	< 0.064

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID	375-6.8(b)	375-6.8(b)		PE-P1-WEST-12SW (3.5-4.0)	PE-P1-WEST-13SW(2.5-3.0)	PE-P1-WEST-14SW(3.5-4.0)	PE-P1-WEST-15SW (2.5-3.0)	PE-P1-WEST-16SW (1.5-2.0)
Sample Date	NYS Restricted	NYS Protection		6/5/2013	6/12/2013	6/12/2013	6/17/2013	6/18/2013
SVOCs cont.								
2,4-Dinitrophenol	NS	NS	mg/kg	< 0.039 J	< 0.041 J	< 0.04 J	< 0.043	< 0.047
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.014 J	< 0.015	< 0.014	< 0.015 J	< 0.017
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.012 J	< 0.013	< 0.013	< 0.013	< 0.015
2-Chloronaphthalene	NS	NS	mg/kg	< 0.01	< 0.01	< 0.01 J	< 0.011	< 0.012
2-Chlorophenol	NS	NS	mg/kg	< 0.033	< 0.034	< 0.033	< 0.035	< 0.039
2-Methylnaphthalene	NS	NS	mg/kg	< 0.018	< 0.019	< 0.018	< 0.019	< 0.021
2-Methylphenol	100	0.33	mg/kg	< 0.037	< 0.038	< 0.038	< 0.04	< 0.044
2-Nitroaniline	NS	NS	mg/kg	< 0.014	< 0.015 J	< 0.015	< 0.015	< 0.017 J
2-Nitrophenol	NS	NS	mg/kg	< 0.034	< 0.035	< 0.035	< 0.037	< 0.041
3&4-Methylphenol	NS	NS	mg/kg	< 0.041	< 0.042	< 0.042	< 0.044	< 0.049
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0082	< 0.0085	< 0.0084	< 0.0089	< 0.0097
3-Nitroaniline	NS	NS	mg/kg	< 0.013	< 0.013	< 0.013	< 0.014	< 0.015
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.039 J	< 0.041	< 0.04 J	< 0.043	< 0.047
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.012	< 0.012	< 0.012	< 0.013	< 0.014
4-Chloro-3-methyl phenol	NS	NS	mg/kg	< 0.032	< 0.033	< 0.033	< 0.035	< 0.038
4-Chloroaniline	NS	NS	mg/kg	< 0.01	< 0.011	< 0.011	< 0.011	< 0.012
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	< 0.0097	< 0.01	< 0.01	< 0.011	< 0.012
4-Nitroaniline	NS	NS	mg/kg	< 0.013	< 0.013	< 0.013	< 0.014	< 0.015
4-Nitrophenol	NS	NS	mg/kg	< 0.054 J	< 0.056	< 0.056 J	< 0.059	< 0.065
Acenaphthene	100	98	mg/kg	< 0.0093	< 0.0097	< 0.0096	< 0.01	< 0.011
Acenaphthylene	100	107	mg/kg	< 0.01	< 0.011	< 0.011	< 0.011	< 0.012
Acetophenone	NS	NS	mg/kg	< 0.0057	< 0.0059	< 0.0058	< 0.0061	< 0.0067
Anthracene	100	1,000	mg/kg	< 0.011	< 0.012	< 0.012	< 0.012	< 0.013
Atrazine	NS	NS	mg/kg	< 0.0063	< 0.0066	< 0.0065	< 0.0069 J	< 0.0076
Benzaldehyde	NS	NS	mg/kg	< 0.0074 J	< 0.0077	< 0.0076 J	< 0.008 J	< 0.0088
Benzo(a)anthracene	1	1	mg/kg	< 0.01	< 0.011	< 0.011	< 0.011	0.0185 J
Benzo(a)pyrene	1	22	mg/kg	< 0.0098	0.0134 J	< 0.01	< 0.011	< 0.012
Benzo(b)fluoranthene	1	1.7	mg/kg	< 0.011	0.0124 J	< 0.011	< 0.012	< 0.013
Benzo(g,h,i)perylene	100	1,000	mg/kg	< 0.012	< 0.012	< 0.012	< 0.013	< 0.014
Benzo(k)fluoranthene	3.9	1.7	mg/kg	< 0.012	< 0.013	< 0.012 J	< 0.013	< 0.014
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.013	< 0.014	< 0.013	< 0.014	< 0.015
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.0097	< 0.01	< 0.01 J	< 0.011	< 0.012
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.0096	< 0.0099	< 0.0098	< 0.01	< 0.011
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.028 J	< 0.03	< 0.029	< 0.031	< 0.034
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.019	< 0.019	< 0.019	< 0.02	< 0.022
Caprolactam	NS	NS	mg/kg	< 0.01	< 0.011	< 0.01	< 0.011	< 0.012
Carbazole	NS	NS	mg/kg	< 0.015	< 0.015	< 0.015	< 0.016	< 0.018
Chrysene	3.9	1	mg/kg	< 0.011	< 0.011	< 0.011	< 0.012	0.0153 J
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.011	< 0.011 J	< 0.011	< 0.012	< 0.013 J
Dibenzofuran	59	210	mg/kg	< 0.0096	< 0.0099	< 0.0098 J	< 0.01	< 0.011
Diethyl phthalate	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	< 0.012	< 0.013
Dimethyl phthalate	NS	NS	mg/kg	0.0412 J	< 0.012	< 0.012	< 0.012	< 0.013
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0071	< 0.0074	< 0.0074	< 0.0078	< 0.0085
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.016 J	< 0.016	< 0.016	< 0.017 J	< 0.019 J
Fluoranthene	100	1,000	mg/kg	< 0.014	< 0.015	< 0.015	< 0.015	< 0.017
Fluorene	100	386	mg/kg	< 0.011	< 0.011	< 0.011	< 0.011	< 0.013
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.01	< 0.011	< 0.011	< 0.011	< 0.012
Hexachlorobutadiene	NS	NS	mg/kg	< 0.0089	< 0.0093	< 0.0092	< 0.0097	< 0.011
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.033 J	< 0.034	< 0.034 J	< 0.036 J	< 0.039
Hexachloroethane	NS	NS	mg/kg	< 0.0089	< 0.0093	< 0.0092	< 0.0097	< 0.011
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	< 0.011	< 0.012	< 0.011	< 0.012	< 0.013
Isophorone	NS	NS	mg/kg	< 0.0087	< 0.009	< 0.0089	< 0.0094	< 0.01
Naphthalene	100	12	mg/kg	< 0.0088	< 0.0091	< 0.009 J	< 0.0095	< 0.01
Nitrobenzene	NS	NS	mg/kg	< 0.0093	< 0.0097	< 0.0096 J	< 0.01	< 0.011
SVOCs cont.								
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0079	< 0.0082	< 0.0081	< 0.0085	< 0.0094
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.019	< 0.02	< 0.02	< 0.021	< 0.023
Pentachlorophenol	6.7	0.8	mg/kg	< 0.055 J	< 0.057	< 0.057	< 0.06 J	< 0.066
Phenanthrene	100	1,000	mg/kg	< 0.015	< 0.015	< 0.015	< 0.016	< 0.017
Phenol	100	0.33	mg/kg	< 0.034	< 0.035	< 0.035	< 0.037	< 0.04
Pyrene	100	1,000	mg/kg	< 0.012	< 0.013	< 0.013	< 0.013	0.0177 J
Total TIC, Semi-Volatile	NS	NS	mg/kg	0.24 JN	0	0.4 JN	0	0.17 JN

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P1-WEST-12SW (3.5-4.0) 6/5/2013	PE-P1-WEST-13SW(2.5-3.0) 6/12/2013	PE-P1-WEST-14SW(3.5-4.0) 6/12/2013	PE-P1-WEST-15SW (2.5-3.0) 6/17/2013	PE-P1-WEST-16SW (1.5-2.0) 6/18/2013
PCBs								
Aroclor 1016	NS	NS	mg/kg	< 0.0091	< 0.009	< 0.0093	< 0.0097	< 0.01
Aroclor 1221	NS	NS	mg/kg	< 0.021	< 0.021	< 0.021	< 0.023	< 0.023
Aroclor 1232	NS	NS	mg/kg	< 0.018	< 0.018	< 0.018	< 0.019	< 0.019
Aroclor 1242	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	< 0.012	< 0.012
Aroclor 1248	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	< 0.011	< 0.012
Aroclor 1254	NS	NS	mg/kg	< 0.016	< 0.016	< 0.017	< 0.018	< 0.018
Aroclor 1260	NS	NS	mg/kg	< 0.012	< 0.011	< 0.012	< 0.012	< 0.013
Aroclor 1262	NS	NS	mg/kg	< 0.011	NA	NA	NA	< 0.012
Aroclor 1268	NS	NS	mg/kg	< 0.01	NA	NA	NA	< 0.011
Metals								
Aluminum	NS	NS	mg/kg	10400 J	13100 J	7070 J	12200	14100
Antimony	NS	NS	mg/kg	< 0.26 J	1.8 B	1.7 B	0.76 B	< 0.28
Arsenic	16	16	mg/kg	2.9	4.5	3.4	4.4	4.2
Barium	400	820	mg/kg	62.8	67.2	76.1	55.3	67.8
Beryllium	72	47	mg/kg	0.81	0.69	0.53	0.72	0.73
Cadmium	4.3	7.5	mg/kg	0.099 B	0.21 B	0.6	0.12 B	0.11 B
Calcium	NS	NS	mg/kg	2110	929	978	3130	3150
Chromium	NS	NS	mg/kg	23.2	22.9	14.9	17.7	20.3
Cobalt	NS	NS	mg/kg	7.6	9.1	6.5	8.5	8.6
Copper	270	1,720	mg/kg	17.9	24.3	15.6	19.9	24.4
Iron	NS	NS	mg/kg	21000 J	22300	13200	21200	23300
Lead	400	450	mg/kg	35.6	50.2	3.9 B	8.8	11.5
Magnesium	NS	NS	mg/kg	4530 J	4440	2260	3360	3870
Manganese	2,000	2,000	mg/kg	572 J	494	3050	393	474
Mercury	0.81	0.73	mg/kg	0.023 B	0.034	0.02 B	0.015 B	0.021 B
Nickel	310	130	mg/kg	16.6	19.9	16.1	15.2	17.6
Potassium	NS	NS	mg/kg	821 J	669 B	483 B	1410	1740
Selenium	180	4	mg/kg	< 0.28	0.9 B	2.7	0.57 B	0.58 B
Silver	180	8.3	mg/kg	0.63	0.14 B	< 0.55	0.87	0.65
Sodium	NS	NS	mg/kg	123 J	136 B	81.5 B	229 B	276 B
Thallium	NS	NS	mg/kg	< 0.32	< 0.31	3.4 B	< 0.35	< 0.35
Vanadium	NS	NS	mg/kg	32.3 J	29.7	21.1	28.4	30.9
Zinc	10,000	2,480	mg/kg	46.2 J	80.3	31.4	36.3	43.6
Other								
Solids, Percent	NS	NS	%	90.6	91.5	90.4	85.5	85.8

- Notes:
- mg/kg

<

NA

UB

B

J or JN

R

Shade

Bold

Bold and Shade
- Milligrams per kilogram

Not Detected

Not Analyzed

Result non-detected at the listed value due to associated blank contamination.

Result is between the method detection limit and the reporting limit.

Estimated Result

Rejected Result

Result exceeds the 375-6.8(b) restricted residential use.

Result exceeds the 375-6.8(b) protection of groundwater

Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater.

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID	375-6.8(b)	375-6.8(b)		PE-P1-WEST-17SW (3.0-3.5)	PE-P1-WEST-18SW (3.5-4.0)	PE-P1-WEST-19SW (3.0-3.5)	PE-P1-WEST-20SW (2.5-3.0)	PE-P1-WEST-21SW(3.0-3.5)
Sample Date	NYS Restricted	NYS Protection		6/21/2013	6/24/2013	6/24/2013	6/24/2013	6/25/2013
VOCs								
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.0001 J	< 0.0001	< 0.00012	< 0.00012	< 0.0001
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00013	< 0.00013	< 0.00015	< 0.00014	< 0.00013
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00017	< 0.00017	< 0.0002	< 0.00019	< 0.00017
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00013	< 0.00014	< 0.00016	< 0.00015	< 0.00013
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00025	< 0.00025	< 0.0003	< 0.00028	< 0.00025
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00013	< 0.00014	< 0.00016	< 0.00015	< 0.00014
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.00085	< 0.00088	< 0.001	< 0.00097	< 0.00087
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00012	< 0.00013	< 0.00015	< 0.00014	< 0.00012
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.00018	< 0.00019	< 0.00022	< 0.00021	< 0.00018
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00013 J	< 0.00013	< 0.00016	< 0.00015	< 0.00013
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00015	< 0.00015	< 0.00018	< 0.00017	< 0.00015
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.00018	< 0.00018	< 0.00022	< 0.0002	< 0.00018
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00017	< 0.00017	< 0.0002	< 0.00019	< 0.00017
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0023	< 0.0024	< 0.0028	< 0.0026	< 0.0023
2-Hexanone	NS	NS	mg/kg	< 0.0006	< 0.00062	< 0.00072	< 0.00068	< 0.00061
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.00072	< 0.00074	< 0.00087	< 0.00082	< 0.00073
Acetone	100	0.05	mg/kg	< 0.0016	< 0.0017	< 0.002	< 0.0018	0.008 J
Benzene	4.8	0.06	mg/kg	< 0.00011	< 0.00012	< 0.00014	< 0.00013	< 0.00012
Bromodichloromethane	NS	NS	mg/kg	< 0.0001	< 0.0001	< 0.00012	< 0.00011	< 0.0001
Bromoform	NS	NS	mg/kg	< 0.00014	< 0.00015	< 0.00017	< 0.00016	< 0.00015
Bromomethane	NS	NS	mg/kg	< 0.00026	< 0.00027	< 0.00032	< 0.0003	< 0.00027
Carbon disulfide	NS	NS	mg/kg	< 0.00011	< 0.00012	< 0.00014	< 0.00013	< 0.00011
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00013 J	< 0.00013	< 0.00015	< 0.00014	< 0.00013
Chlorobenzene	100	1.1	mg/kg	< 0.0001	< 0.00011	< 0.00013	< 0.00012	< 0.00011
Chloroethane	NS	NS	mg/kg	< 0.00022	< 0.00022	< 0.00026	< 0.00025	< 0.00022
Chloroform	49	0.37	mg/kg	< 0.000079	< 0.000082	< 0.000096	< 0.00009	< 0.000081
Chloromethane	NS	NS	mg/kg	< 0.00018	< 0.00018	< 0.00022	< 0.0002	< 0.00018
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00018	< 0.00018	< 0.00021	< 0.0002	< 0.00018
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00013	< 0.00014	< 0.00016	< 0.00015	< 0.00014
Cyclohexane	NS	NS	mg/kg	< 0.00012	< 0.00012	< 0.00014	< 0.00014	< 0.00012
Dibromochloromethane	NS	NS	mg/kg	< 0.00016	< 0.00016	< 0.00019	< 0.00018	< 0.00016
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00022	< 0.00023	< 0.00026	< 0.00025	< 0.00022
Ethylbenzene	41	1	mg/kg	< 0.00025	< 0.00026	< 0.0003	< 0.00029	< 0.00026
Freon 113	NS	NS	mg/kg	< 0.00041	< 0.00043	< 0.0005	< 0.00047	< 0.00042
Isopropylbenzene	NS	NS	mg/kg	< 0.000071	< 0.000073	< 0.000086	< 0.000081	< 0.000073
Methyl Acetate	NS	NS	mg/kg	< 0.0025	< 0.0026	< 0.003	< 0.0028	< 0.0025
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00023	< 0.00023	< 0.00027	< 0.00026	< 0.00023
Methylcyclohexane	NS	NS	mg/kg	< 0.00016	< 0.00017	< 0.0002	< 0.00018	< 0.00017
Methylene chloride	100	0.05	mg/kg	0.0048	< 0.0013	< 0.0015	< 0.0014	0.0015 J
Styrene	NS	NS	mg/kg	< 0.000088	< 0.000091	< 0.00011	< 0.0001	< 0.00009
Tetrachloroethene	19	1.3	mg/kg	< 0.00016	< 0.00017	< 0.0002	< 0.00019	< 0.00017
Toluene	100	0.7	mg/kg	< 0.0001	< 0.0001	< 0.00012	< 0.00011	< 0.0001
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00023	< 0.00024	< 0.00028	< 0.00026	< 0.00023
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00015	< 0.00015	< 0.00018	< 0.00017	< 0.00015
Trichloroethene	21	0.47	mg/kg	< 0.00017	< 0.00017	< 0.0002	< 0.00019	< 0.00017
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00029 J	< 0.00029	< 0.00034	< 0.00032	< 0.00029
Vinyl chloride	0.9	0.02	mg/kg	< 0.00014	< 0.00014	< 0.00017	< 0.00016	< 0.00014
Xylene (total)	100	1.6	mg/kg	< 0.00013	< 0.00014	< 0.00016	< 0.00015	< 0.00014
Total TIC, Volatile	NS	NS	mg/kg	0	0.0055 JN	0	0.0118 J	0
SVOCs								
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0079	< 0.0042	< 0.0041	< 0.0041	< 0.004
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.079	< 0.042	< 0.041	< 0.041	< 0.04
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.064	< 0.034	< 0.033	< 0.033	< 0.032 J
2,4-Dichlorophenol	NS	NS	mg/kg	< 0.11	< 0.058	< 0.056	< 0.057	< 0.056 J
2,4-Dimethylphenol	NS	NS	mg/kg	< 0.11	< 0.061	< 0.059	< 0.06	< 0.058

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID	375-6.8(b)	375-6.8(b)		PE-P1-WEST-17SW (3.0-3.5)	PE-P1-WEST-18SW (3.5-4.0)	PE-P1-WEST-19SW (3.0-3.5)	PE-P1-WEST-20SW (2.5-3.0)	PE-P1-WEST-21SW(3.0-3.5)
Sample Date	NYS Restricted	NYS Protection		6/21/2013	6/24/2013	6/24/2013	6/24/2013	6/25/2013
SVOCs cont.								
2,4-Dinitrophenol	NS	NS	mg/kg	< 0.083 J	< 0.044 J	< 0.043 J	< 0.043 J	< 0.042 J
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.03	< 0.016 J	< 0.015 J	< 0.015 J	< 0.015 J
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.026	< 0.014 J	< 0.013 J	< 0.013 J	< 0.013 J
2-Chloronaphthalene	NS	NS	mg/kg	< 0.021	< 0.011	< 0.011	< 0.011	< 0.011
2-Chlorophenol	NS	NS	mg/kg	< 0.069	< 0.036	< 0.035	< 0.036	< 0.035
2-Methylnaphthalene	NS	NS	mg/kg	< 0.038	< 0.02	< 0.02	< 0.02	< 0.019
2-Methylphenol	100	0.33	mg/kg	< 0.078	< 0.041	< 0.04	< 0.04	< 0.039
2-Nitroaniline	NS	NS	mg/kg	< 0.03	< 0.016	< 0.015	< 0.016	< 0.015 J
2-Nitrophenol	NS	NS	mg/kg	< 0.072	< 0.038 J	< 0.037 J	< 0.038 J	< 0.037 J
3&4-Methylphenol	NS	NS	mg/kg	< 0.086	< 0.046	< 0.044	< 0.045	< 0.044
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.017	< 0.0092	< 0.0089	< 0.009	< 0.0088
3-Nitroaniline	NS	NS	mg/kg	< 0.027	< 0.014	< 0.014	< 0.014	< 0.014 J
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.083 J	< 0.044 J	< 0.043 J	< 0.043 J	< 0.042 J
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.025	< 0.013	< 0.013	< 0.013	< 0.013
4-Chloro-3-methyl phenol	NS	NS	mg/kg	< 0.068	< 0.036	< 0.035	< 0.035	< 0.035
4-Chloroaniline	NS	NS	mg/kg	< 0.022	< 0.012	< 0.011	< 0.011	< 0.011
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	< 0.02	< 0.011	< 0.011	< 0.011	< 0.01
4-Nitroaniline	NS	NS	mg/kg	< 0.027	< 0.014	< 0.014	< 0.014	< 0.013
4-Nitrophenol	NS	NS	mg/kg	< 0.12	< 0.061 J	< 0.059 J	< 0.06 J	< 0.058
Acenaphthene	100	98	mg/kg	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	100	107	mg/kg	< 0.022	< 0.012	< 0.011	< 0.011	< 0.011
Acetophenone	NS	NS	mg/kg	< 0.012 J	< 0.0064	< 0.0062	< 0.0062	< 0.0061
Anthracene	100	1,000	mg/kg	< 0.024	< 0.013	< 0.012	< 0.012	< 0.012
Atrazine	NS	NS	mg/kg	< 0.013 J	< 0.0071	< 0.0069	< 0.007	< 0.0068 J
Benzaldehyde	NS	NS	mg/kg	< 0.016 J	< 0.0083 J	< 0.008 J	< 0.0081 J	< 0.0079
Benzo(a)anthracene	1	1	mg/kg	< 0.022	0.0405	< 0.011	< 0.012	< 0.011
Benzo(a)pyrene	1	22	mg/kg	< 0.021	0.0375	< 0.011	< 0.011	< 0.011
Benzo(b)fluoranthene	1	1.7	mg/kg	< 0.023	0.0423	< 0.012	< 0.012	< 0.012 J
Benzo(g,h,i)perylene	100	1,000	mg/kg	< 0.025	0.016 J	< 0.013	< 0.013	< 0.013
Benzo(k)fluoranthene	3.9	1.7	mg/kg	< 0.026	0.0177 J	< 0.013	< 0.013	< 0.013
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.028	< 0.015	< 0.014	< 0.014	< 0.014
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.02	< 0.011	< 0.011	< 0.011	< 0.01
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.02	< 0.011	< 0.01	< 0.011	< 0.01
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.06	< 0.032	< 0.031	< 0.031	< 0.03
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.039	< 0.021	< 0.02	< 0.021	< 0.02
Caprolactam	NS	NS	mg/kg	< 0.021 J	< 0.011	< 0.011	< 0.011	< 0.011 J
Carbazole	NS	NS	mg/kg	< 0.032	< 0.017	< 0.016	< 0.016	< 0.016
Chrysene	3.9	1	mg/kg	< 0.023	0.0446	< 0.012	< 0.012	< 0.012
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.023	< 0.012	< 0.012	< 0.012	< 0.012
Dibenzofuran	59	210	mg/kg	< 0.02 J	< 0.011	< 0.01	< 0.011	< 0.01
Diethyl phthalate	NS	NS	mg/kg	< 0.023	< 0.012	< 0.012	< 0.012	< 0.012
Dimethyl phthalate	NS	NS	mg/kg	< 0.024	< 0.013	< 0.012	< 0.012	< 0.012
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.015	< 0.008	< 0.0078	< 0.0079	< 0.0077 J
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.033 J	< 0.018 J	< 0.017 J	< 0.017 J	< 0.017
Fluoranthene	100	1,000	mg/kg	< 0.03	0.0763	< 0.015	< 0.016	< 0.015
Fluorene	100	386	mg/kg	< 0.022	< 0.012	< 0.011	< 0.012	< 0.011
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.022	< 0.012	< 0.011	< 0.012	< 0.011
Hexachlorobutadiene	NS	NS	mg/kg	< 0.019	< 0.01	< 0.0097	< 0.0098	< 0.0096
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.069	< 0.037 J	< 0.036 J	< 0.036 J	< 0.035
Hexachloroethane	NS	NS	mg/kg	< 0.019	< 0.01	< 0.0097	< 0.0098	< 0.0096
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	< 0.024	0.02 J	< 0.012	< 0.012	< 0.012 J
Isophorone	NS	NS	mg/kg	< 0.018	< 0.0097	< 0.0094	< 0.0095	< 0.0093
Naphthalene	100	12	mg/kg	< 0.019	< 0.0099	< 0.0096	< 0.0097	< 0.0094
Nitrobenzene	NS	NS	mg/kg	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01
SVOCs cont.								
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.017 J	< 0.0088	< 0.0085	< 0.0086	< 0.0084
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.041	< 0.022	< 0.021	< 0.021	< 0.021
Pentachlorophenol	6.7	0.8	mg/kg	< 0.12	< 0.062 J	< 0.06 J	< 0.061 J	< 0.059 J
Phenanthrene	100	1,000	mg/kg	< 0.031	0.023 J	< 0.016	< 0.016	< 0.016
Phenol	100	0.33	mg/kg	< 0.071	< 0.038	< 0.037	< 0.037	< 0.036
Pyrene	100	1,000	mg/kg	< 0.026	0.0684	< 0.013	< 0.014	< 0.013
Total TIC, Semi-Volatile	NS	NS	mg/kg	0	2.4 JN	0.38 JN	1.4 JN	0.69 JN

Table 6. Summary of Post Excavation Analytical Results, Paint Sludge Area 1, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P1-WEST-17SW (3.0-3.5) 6/21/2013	PE-P1-WEST-18SW (3.5-4.0) 6/24/2013	PE-P1-WEST-19SW (3.0-3.5) 6/24/2013	PE-P1-WEST-20SW (2.5-3.0) 6/24/2013	PE-P1-WEST-21SW(3.0-3.5) 6/25/2013
PCBs								
Aroclor 1016	NS	NS	mg/kg	< 0.0086	< 0.0099	< 0.0085	< 0.0087	< 0.0088
Aroclor 1221	NS	NS	mg/kg	< 0.02	< 0.023	< 0.02	< 0.02	< 0.02
Aroclor 1232	NS	NS	mg/kg	< 0.017	< 0.019	< 0.016	< 0.017	< 0.017
Aroclor 1242	NS	NS	mg/kg	< 0.01	< 0.012	< 0.01	< 0.011	< 0.011
Aroclor 1248	NS	NS	mg/kg	< 0.01	< 0.012	< 0.0099	< 0.01	< 0.01
Aroclor 1254	NS	NS	mg/kg	< 0.015	< 0.018	< 0.015	< 0.016	< 0.016
Aroclor 1260	NS	NS	mg/kg	< 0.011	< 0.012	< 0.011	< 0.011	< 0.011
Aroclor 1262	NS	NS	mg/kg	< 0.01	< 0.012	< 0.01	< 0.011	< 0.011
Aroclor 1268	NS	NS	mg/kg	< 0.0097	< 0.011	< 0.0096	< 0.0099	< 0.01
Metals								
Aluminum	NS	NS	mg/kg	10500	18900 J	13200 J	16200 J	12800
Antimony	NS	NS	mg/kg	0.34 B	0.31 B	< 0.25	< 0.27	0.33 J
Arsenic	16	16	mg/kg	3.5	5.7	4.7	4.8	3.7
Barium	400	820	mg/kg	50.4	97.4	56.5	60.6	47
Beryllium	72	47	mg/kg	0.82	1.1	0.85	0.92	0.7
Cadmium	4.3	7.5	mg/kg	< 0.081	0.12 B	0.24 B	< 0.082	< 0.079
Calcium	NS	NS	mg/kg	1870	1090	1160	1000	1380 J
Chromium	NS	NS	mg/kg	21.6	23.8	18.9	21.8	16.4
Cobalt	NS	NS	mg/kg	8.4	8.3	10.8	7.4	7.4
Copper	270	1,720	mg/kg	13.6	22.2	23.5	18	21.1
Iron	NS	NS	mg/kg	21900	33600	25600	23200	22200
Lead	400	450	mg/kg	10.4	15.1	10.1	9.9	8.5
Magnesium	NS	NS	mg/kg	3810	4490	4670	4340	4880
Manganese	2,000	2,000	mg/kg	666	792	573	542	470
Mercury	0.81	0.73	mg/kg	0.024 B	0.21	0.012 B	0.021 B	0.029 B
Nickel	310	130	mg/kg	18.4	19.6	21.1	19.4	21.9
Potassium	NS	NS	mg/kg	1020 B	1100 B	1070	976 B	965 B
Selenium	180	4	mg/kg	0.34 B	0.41 B	0.44 B	0.51 B	0.55 B
Silver	180	8.3	mg/kg	< 0.11	0.55 B	0.39 B	0.38 B	0.21 B
Sodium	NS	NS	mg/kg	116 B	76.5 B	88.7 B	62.6 B	78.1 B
Thallium	NS	NS	mg/kg	< 0.33	< 0.34	< 0.3	< 0.34	< 0.33
Vanadium	NS	NS	mg/kg	30.4	38.5	29.6	31.3	29
Zinc	10,000	2,480	mg/kg	49	61.2	68.4	53.7	51.7 J
Other								
Solids, Percent	NS	NS	%	91.5	85.7	91.9	88.2	93.1

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use.
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater.

Table 7. Summary of Post Excavation Analytical Results, Paint Sludge Area 2, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY

Sample ID	375-6.8(b)	375-6.8(b)		PE-P2-1B (4.0-4.5)	PE-P2-2B (4.0-4.5)	PE-P2-3B (4.0-4.5)	PE-P2-4B (7.0-7.5)	PE-P2-5B (7.0-7.5)	PE-P2-6B(8.5-9.0)
Sample Date	NYS Restricted	NYS Protection		4/9/2013	4/9/2013	4/9/2013	4/10/2013	4/10/2013	4/16/2013
VOCS									
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00012	< 0.00012	< 0.00014	< 0.00012	< 0.00011	< 0.0001
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00015	< 0.00015	< 0.00017	< 0.00015	< 0.00014	< 0.00013
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.0002	< 0.00019	< 0.00022	< 0.00019	< 0.00019	< 0.00017
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00016	< 0.00015	< 0.00018	< 0.00015	< 0.00015	< 0.00013
1,1-Dichloroethene	100	0.33	mg/kg	< 0.0003	< 0.00028	< 0.00033	< 0.00029	< 0.00028	< 0.00025
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00016	< 0.00015	< 0.00018	< 0.00015	< 0.00015	< 0.00013
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.001 J	< 0.00098	< 0.0011	< 0.00099	< 0.00096	< 0.00086
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00015	< 0.00014	< 0.00016	< 0.00014	< 0.00014	< 0.00012
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.00022	< 0.00021	< 0.00024	< 0.00021	< 0.0002	< 0.00018
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00016	< 0.00015	< 0.00017	< 0.00015	< 0.00015	< 0.00013
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00018	< 0.00017	< 0.0002	< 0.00017	< 0.00017	< 0.00015
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.00022	< 0.00021	< 0.00024	< 0.00021	< 0.0002	< 0.00018
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.0002	< 0.00019	< 0.00023	< 0.0002	< 0.00019	< 0.00017
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0028	< 0.0026	< 0.0031	< 0.0027	< 0.0026	0.0561 J
2-Hexanone	NS	NS	mg/kg	< 0.00072	< 0.00069	< 0.0008	< 0.00069	< 0.00067	< 0.0006
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.00087	< 0.00083	< 0.00096	< 0.00084	< 0.00081 J	< 0.00073
Acetone	100	0.05	mg/kg	< 0.002	< 0.0019	< 0.0022	< 0.0019	< 0.0018	0.0597
Benzene	4.8	0.06	mg/kg	< 0.00014	< 0.00013	< 0.00015	< 0.00013	< 0.00013	< 0.00012
Bromodichloromethane	NS	NS	mg/kg	< 0.00012	< 0.00012	< 0.00013	< 0.00012	< 0.00011	< 0.0001
Bromoform	NS	NS	mg/kg	< 0.00017	< 0.00017	< 0.00019	< 0.00017	< 0.00016	< 0.00015
Bromomethane	NS	NS	mg/kg	< 0.00032	< 0.0003	< 0.00035	< 0.0003	< 0.00029	< 0.00026
Carbon disulfide	NS	NS	mg/kg	< 0.00014	< 0.00013	< 0.00015	< 0.00013	< 0.00013	< 0.00011
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00015	< 0.00015	< 0.00017	< 0.00015	< 0.00014	< 0.00013
Chlorobenzene	100	1.1	mg/kg	< 0.00012	< 0.00012	< 0.00014	< 0.00012	< 0.00012	< 0.0001
Chloroethane	NS	NS	mg/kg	< 0.00026	< 0.00025	< 0.00029	< 0.00025	< 0.00025	< 0.00022
Chloroform	49	0.37	mg/kg	< 0.000096	< 0.000091	< 0.00011	< 0.000092	< 0.000089	< 0.00008
Chloromethane	NS	NS	mg/kg	< 0.00022 J	< 0.00021	< 0.00024	< 0.00021	< 0.0002	< 0.00018
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00021	< 0.0002	< 0.00023	< 0.0002	< 0.0002	< 0.00018
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00016	< 0.00015	< 0.00018	< 0.00015	< 0.00015	< 0.00013
Cyclohexane	NS	NS	mg/kg	< 0.00014	< 0.00014	< 0.00016	< 0.00014	< 0.00013	< 0.00012
Dibromochloromethane	NS	NS	mg/kg	< 0.00019	< 0.00018	< 0.00021	< 0.00018	< 0.00018	< 0.00016
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00026	< 0.00025	< 0.00029	< 0.00025	< 0.00025	< 0.00022
Ethylbenzene	41	1	mg/kg	< 0.0003	< 0.00029	< 0.00034	0.0047	0.00051 J	< 0.00025
Freon 113	NS	NS	mg/kg	< 0.0005	< 0.00047	< 0.00055	< 0.00048	< 0.00046	< 0.00042
Isopropylbenzene	NS	NS	mg/kg	< 0.000086	< 0.000082	< 0.000095	0.00089 J	< 0.00008	< 0.000072
Methyl Acetate	NS	NS	mg/kg	< 0.003	< 0.0029 J	< 0.0033 J	< 0.0029	< 0.0028 J	< 0.0025
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00027	< 0.00026	< 0.0003	< 0.00026	< 0.00025	< 0.00023
Methylcyclohexane	NS	NS	mg/kg	< 0.0002	< 0.00019	< 0.00022	< 0.00019	< 0.00018	< 0.00016
Methylene chloride	100	0.05	mg/kg	< 0.0058 UB	< 0.0014	< 0.0016	< 0.0056 UB	< 0.0014	0.0083
Styrene	NS	NS	mg/kg	< 0.00011	< 0.0001	< 0.00012	< 0.0001	< 0.000099	< 0.000089
Tetrachloroethene	19	1.3	mg/kg	< 0.0002	< 0.00019	< 0.00022	< 0.00019	< 0.00019	< 0.00017
Toluene	100	0.7	mg/kg	< 0.00012	< 0.00012	< 0.00013	0.0039	0.00063 J	< 0.0001
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00028	< 0.00026	< 0.00031	< 0.00026	< 0.00026	< 0.00023
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00018	< 0.00017	< 0.0002	< 0.00017	< 0.00017	< 0.00015
Trichloroethene	21	0.47	mg/kg	< 0.0002	< 0.00019	< 0.00022	< 0.00019	< 0.00019	< 0.00017
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00034	< 0.00033	< 0.00038	< 0.00033	< 0.00032	< 0.00029
Vinyl chloride	0.9	0.02	mg/kg	< 0.00017	< 0.00016	< 0.00018	< 0.00016	< 0.00016	< 0.00014
Xylene (total)	100	1.6	mg/kg	0.00028 J	0.00035 J	0.00036 J	0.0338	0.0036	< 0.00013
Total TIC, Volatile	NS	NS	mg/kg	0	0.007 JN	0.013 JN	0.0409 J	0	1.1 JN
SVOCs									
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0045	< 0.004	< 0.0048	< 0.0047	< 0.004	< 0.0041
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.045 J	< 0.04 J	< 0.048 J	< 0.047	< 0.04	< 0.041
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.037 J	< 0.033 J	< 0.039 J	< 0.038	< 0.032	< 0.033
2,4-Dichloropheno	NS	NS	mg/kg	< 0.063 J	< 0.056 J	< 0.067 J	< 0.065	< 0.055	< 0.056
2,4-Dimethylpheno	NS	NS	mg/kg	< 0.066	< 0.059	< 0.07	< 0.068	< 0.057	< 0.059

Table 7. Summary of Post Excavation Analytical Results, Paint Sludge Area 2, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY

Sample ID	375-6.8(b)	375-6.8(b)		PE-P2-1B (4.0-4.5)	PE-P2-2B (4.0-4.5)	PE-P2-3B (4.0-4.5)	PE-P2-4B (7.0-7.5)	PE-P2-5B (7.0-7.5)	PE-P2-6B(8.5-9.0)
Sample Date	NYS Restricted	NYS Protection		4/9/2013	4/9/2013	4/9/2013	4/10/2013	4/10/2013	4/16/2013
SVOCs cont.									
2,4-Dinitrophenol	NS	NS	mg/kg	< 0.048	< 0.043	< 0.051	< 0.049	< 0.042	< 0.043
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.017	< 0.015 J	< 0.018	< 0.018 J	< 0.015 J	< 0.015 J
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.015 J	< 0.013	< 0.016 J	< 0.015 J	< 0.013 J	< 0.013
2-Chloronaphthalene	NS	NS	mg/kg	< 0.012	< 0.011	< 0.013	< 0.013	< 0.011	< 0.011
2-Chlorophenol	NS	NS	mg/kg	< 0.039	< 0.035	< 0.042	< 0.041	< 0.035	< 0.035
2-Methylnaphthalene	NS	NS	mg/kg	< 0.022	< 0.019	0.104	0.0962	< 0.019	< 0.02
2-Methylphenol	100	0.33	mg/kg	< 0.045	< 0.04	< 0.048	< 0.046	< 0.039	< 0.04
2-Nitroaniline	NS	NS	mg/kg	< 0.017 J	< 0.015 J	< 0.018 J	< 0.018	< 0.015	< 0.015
2-Nitrophenol	NS	NS	mg/kg	< 0.041 J	< 0.037 J	< 0.044 J	< 0.043	< 0.036	< 0.037
3&4-Methylphenol	NS	NS	mg/kg	< 0.05	< 0.044	< 0.053	< 0.051	< 0.043	< 0.044
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0099	< 0.0089	< 0.011	< 0.01	< 0.0087	< 0.0089
3-Nitroaniline	NS	NS	mg/kg	< 0.016	< 0.014	< 0.017	< 0.016	< 0.014	< 0.014
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.048	< 0.043	< 0.051	< 0.049 J	< 0.042 J	< 0.043 J
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.014	< 0.013	< 0.015	< 0.015	< 0.012	< 0.013
4-Chloro-3-methyl phenol	NS	NS	mg/kg	< 0.039	< 0.035 J	< 0.042	< 0.04	< 0.034	< 0.035 J
4-Chloroaniline	NS	NS	mg/kg	< 0.013	< 0.011	< 0.013	< 0.013	< 0.011	< 0.011
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	< 0.012	< 0.01 J	< 0.013	< 0.012	< 0.01	< 0.011
4-Nitroaniline	NS	NS	mg/kg	< 0.015 J	< 0.014	< 0.016 J	< 0.016	< 0.013	< 0.014
4-Nitrophenol	NS	NS	mg/kg	< 0.066	< 0.059	< 0.071	< 0.068	< 0.058	< 0.059
Acenaphthene	100	98	mg/kg	< 0.011	< 0.01	< 0.012	< 0.012	< 0.0099	< 0.01
Acenaphthylene	100	107	mg/kg	< 0.013	< 0.011	< 0.013	< 0.013	< 0.011	< 0.011
Acetophenone	NS	NS	mg/kg	< 0.0069	< 0.0061	< 0.0074	< 0.0071	< 0.006	< 0.0062
Anthracene	100	1,000	mg/kg	< 0.014	< 0.012	< 0.015	< 0.014	< 0.012	< 0.012
Atrazine	NS	NS	mg/kg	< 0.0077	< 0.0069	< 0.0082	< 0.008	< 0.0067	< 0.0069
Benzaldehyde	NS	NS	mg/kg	< 0.009	< 0.008	< 0.0096	< 0.0093	< 0.0079	< 0.0081
Benzo(a)anthracene	1	1	mg/kg	< 0.013	< 0.011	< 0.014	< 0.013	< 0.011	< 0.011
Benzo(a)pyrene	1	22	mg/kg	< 0.012	< 0.011	< 0.013	< 0.012	< 0.01	< 0.011
Benzo(b)fluoranthene	1	1.7	mg/kg	< 0.013 J	< 0.012 J	< 0.014 J	< 0.013	< 0.011	< 0.012
Benzo(g,h,i)perylene	100	1,000	mg/kg	< 0.015	< 0.013	< 0.016	< 0.015	< 0.013	< 0.013
Benzo(k)fluoranthene	3.9	1.7	mg/kg	< 0.015	< 0.013	< 0.016	< 0.015	< 0.013	< 0.013
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.016	< 0.014	< 0.017	< 0.016	< 0.014	< 0.014
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.012	< 0.01	< 0.013	< 0.012	< 0.01	< 0.011
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.012	< 0.01	< 0.012	< 0.012	< 0.01	< 0.01
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.034	< 0.031	< 0.037	0.0491 J	< 0.03	< 0.031
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.023	< 0.02	< 0.024	< 0.023	< 0.02	< 0.02
Caprolactam	NS	NS	mg/kg	< 0.012 J	< 0.011	< 0.013 J	< 0.013	< 0.011	< 0.011
Carbazole	NS	NS	mg/kg	< 0.018	< 0.016	< 0.019	< 0.019	< 0.016	< 0.016
Chrysene	3.9	1	mg/kg	< 0.013	< 0.012	< 0.014	< 0.014	< 0.012	< 0.012
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.013	< 0.012 J	< 0.014	< 0.014	< 0.012	< 0.012
Dibenzofuran	59	210	mg/kg	< 0.012	< 0.01	< 0.012	< 0.012	< 0.01	< 0.01
Diethyl phthalate	NS	NS	mg/kg	< 0.013	< 0.012	< 0.014	< 0.014	< 0.012	< 0.012
Dimethyl phthalate	NS	NS	mg/kg	< 0.014	< 0.012	< 0.015	< 0.014	< 0.012	< 0.012
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0087	< 0.0077	< 0.0093	< 0.009	< 0.0076	< 0.0078
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.019 J	< 0.017 J	< 0.02 J	< 0.02 J	< 0.017 J	< 0.017 J
Fluoranthene	100	1,000	mg/kg	< 0.017	< 0.017	0.0167 J	< 0.018	< 0.015	< 0.015
Fluorene	100	386	mg/kg	< 0.013	< 0.011	< 0.014	< 0.013	< 0.011	< 0.011
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.013	< 0.011	< 0.014	< 0.013	< 0.011	< 0.011
Hexachlorobutadiene	NS	NS	mg/kg	< 0.011	< 0.0097	< 0.012	< 0.011	< 0.0095	< 0.0097
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.04	< 0.036	< 0.043	< 0.041	< 0.035	< 0.036
Hexachloroethane	NS	NS	mg/kg	< 0.011	< 0.0097	< 0.012	< 0.011	< 0.0095	< 0.0097
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	< 0.014	< 0.012	< 0.014	< 0.014	< 0.012	< 0.012
Isophorone	NS	NS	mg/kg	< 0.011	< 0.0094	< 0.011	< 0.011	< 0.0092	< 0.0094
Naphthalene	100	12	mg/kg	< 0.011	< 0.0095	0.0743	0.0987	< 0.0093	< 0.0096
Nitrobenzene	NS	NS	mg/kg	< 0.011	< 0.01	< 0.012	< 0.012	< 0.0099	< 0.01
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0095	< 0.0085	< 0.01	< 0.0099	< 0.0083	< 0.0085
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.023	< 0.021	< 0.025	< 0.024	< 0.02	< 0.021
Pentachlorophenol	6.7	0.8	mg/kg	< 0.067	< 0.06	< 0.071	< 0.069 J	< 0.058 J	< 0.06
Phenanthrene	100	1,000	mg/kg	< 0.018	< 0.016	< 0.019	< 0.018	< 0.016	< 0.016
Phenol	100	0.33	mg/kg	< 0.041	< 0.037	< 0.044	< 0.042	< 0.036	< 0.037
Pyrene	100	1,000	mg/kg	< 0.015	0.016 J	< 0.016	< 0.016	< 0.013	< 0.013
Total TIC, Semi-Volatile	NS	NS	mg/kg	0.44 JN	3.13 JN	1.67 JN	0.94 JN	0	0.48 JN

Table 7. Summary of Post Excavation Analytical Results, Paint Sludge Area 2, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P2-1B (4.0-4.5) 4/9/2013	PE-P2-2B (4.0-4.5) 4/9/2013	PE-P2-3B (4.0-4.5) 4/9/2013	PE-P2-4B (7.0-7.5) 4/10/2013	PE-P2-5B (7.0-7.5) 4/10/2013	PE-P2-6B(8.5-9.0) 4/16/2013
PCBs									
Aroclor 1016	NS	NS	mg/kg	< 0.0098 J	< 0.01 J	< 0.01 J	< 0.011 J	< 0.0089 J	< 0.0094
Aroclor 1221	NS	NS	mg/kg	< 0.023 J	< 0.024 J	< 0.024 J	< 0.025 J	< 0.021 J	< 0.022
Aroclor 1232	NS	NS	mg/kg	< 0.019 J	< 0.02 J	< 0.02 J	< 0.021 J	< 0.017 J	< 0.018
Aroclor 1242	NS	NS	mg/kg	< 0.012	< 0.013 J	< 0.013	< 0.013	< 0.011	< 0.012 J
Aroclor 1248	NS	NS	mg/kg	< 0.012	< 0.012 J	< 0.012	< 0.013	< 0.01	< 0.011 J
Aroclor 1254	NS	NS	mg/kg	< 0.018	< 0.018 J	< 0.019	< 0.019	< 0.016	< 0.017 J
Aroclor 1260	NS	NS	mg/kg	< 0.012	< 0.013 J	< 0.013	< 0.014	< 0.011	< 0.012 J
Aroclor 1262	NS	NS	mg/kg	NA	NA	NA	< 0.013	< 0.011	NA
Aroclor 1268	NS	NS	mg/kg	NA	NA	NA	< 0.012	< 0.01	NA
Metals									
Aluminum	NS	NS	mg/kg	16500 J	15100 J	17300 J	6260 J	7850 J	6350
Antimony	NS	NS	mg/kg	< 0.18 J	< 0.18 J	0.24 J	< 0.19	< 0.17	0.3 J
Arsenic	16	16	mg/kg	3.9	3.6	3.4	2.7	2.5	2.4
Barium	400	820	mg/kg	57.8	55	55.1	42.2	91	47.2 J
Beryllium	72	47	mg/kg	1.1	1	1.1	0.42	0.43	0.28
Cadmium	4.3	7.5	mg/kg	0.22 B	0.18 B	0.22 B	< 0.032	0.044 B	< 0.027
Calcium	NS	NS	mg/kg	1580 J	1340 J	1200 J	1860	1580	1320 J
Chromium	NS	NS	mg/kg	25.1	25.2	26.4	22.9	20.5	15.3 J
Cobalt	NS	NS	mg/kg	8.6 J	9 J	8 J	6.8	6.5	5.5 J
Copper	270	1,720	mg/kg	13.9	13.8	15.6	10.2	10.4	10.1
Iron	NS	NS	mg/kg	23700 J	23500 J	23100 J	21900	16800	14200 J
Lead	400	450	mg/kg	13.2	12.7	18.5	4.7	13.6	6.8
Magnesium	NS	NS	mg/kg	2850 J	3010 J	3750 J	2760	3030	3060 J
Manganese	2,000	2,000	mg/kg	785 J	537 J	420 J	376	625	159 J
Mercury	0.81	0.73	mg/kg	0.05	0.04	0.061	0.039	0.037	0.13
Nickel	310	130	mg/kg	16.4	15.3	17.3	12.6	13.9	11.8
Potassium	NS	NS	mg/kg	626 J	759 J	646 J	613 B	598 B	653 B
Selenium	180	4	mg/kg	< 0.29	< 0.29	< 0.3	< 0.3	0.29 B	< 0.26
Silver	180	8.3	mg/kg	< 0.076	< 0.076	< 0.08	0.24 B	0.29 B	< 0.069
Sodium	NS	NS	mg/kg	95.4 B	128 B	134 B	129 B	141 B	121 B
Thallium	NS	NS	mg/kg	< 0.26	< 0.26	< 0.28	< 0.28	0.3 B	< 0.24
Vanadium	NS	NS	mg/kg	39.8	42.8	42	33.2	28.5	21.6 J
Zinc	10,000	2,480	mg/kg	49.3	50.4	51.6	30.7	32.9	29.7 J
Other									
Solids, Percent	NS	NS	%	83.1	81	76.5	78.8	92.6	89.2

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater

Table 7. Summary of Post Excavation Analytical Results, Paint Sludge Area 2, Operable Unit 1, Ramapo Paint Sl

Sample ID	375-6.8(b)	375-6.8(b)		DUP (041613)	PE-P2-6B(10.0-10.5)A	PE-P2-6B(10.0-10.5)B	PE-P2-7B(8.0-8.5)	PE-P2-7B(A) (10.0-10.5)	PE-P2-7B(B) (10.0-10.5)
Sample Date	NYS Restricted	NYS Protection		4/16/2013	7/19/2013	7/19/2013	4/16/2013	6/28/2013	6/28/2013
VOCs									
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00011	NA	NA	< 0.00013	NA	NA
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00014	NA	NA	< 0.00017	NA	NA
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00018	NA	NA	< 0.00022	NA	NA
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00014	NA	NA	< 0.00017	NA	NA
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00027	NA	NA	< 0.00033	NA	NA
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00015	NA	NA	< 0.00018	NA	NA
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.00093	NA	NA	< 0.0011	NA	NA
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00013	NA	NA	< 0.00016	NA	NA
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.0002	NA	NA	< 0.00024	NA	NA
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00014	NA	NA	< 0.00017	NA	NA
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00016	NA	NA	< 0.0002	NA	NA
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.0002	NA	NA	< 0.00024	NA	NA
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00018	NA	NA	< 0.00022	NA	NA
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0025 J	NA	NA	< 0.003	NA	NA
2-Hexanone	NS	NS	mg/kg	< 0.00065	NA	NA	< 0.00079	NA	NA
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	0.0176	NA	NA	< 0.00096	NA	NA
Acetone	100	0.05	mg/kg	0.0991	< 0.0018	< 0.002	< 0.0022	NA	NA
Benzene	4.8	0.06	mg/kg	< 0.00012	NA	NA	< 0.00015	NA	NA
Bromodichloromethane	NS	NS	mg/kg	< 0.00011	NA	NA	< 0.00013	NA	NA
Bromoform	NS	NS	mg/kg	< 0.00016	NA	NA	< 0.00019	NA	NA
Bromomethane	NS	NS	mg/kg	< 0.00029	NA	NA	< 0.00035	NA	NA
Carbon disulfide	NS	NS	mg/kg	< 0.00012	NA	NA	< 0.00015	NA	NA
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00014	NA	NA	< 0.00017	NA	NA
Chlorobenzene	100	1.1	mg/kg	< 0.00011	NA	NA	< 0.00014	NA	NA
Chloroethane	NS	NS	mg/kg	< 0.00024	NA	NA	< 0.00029	NA	NA
Chloroform	49	0.37	mg/kg	< 0.000086	NA	NA	< 0.00011	NA	NA
Chloromethane	NS	NS	mg/kg	< 0.00019	NA	NA	< 0.00024	NA	NA
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00019	NA	NA	< 0.00023	NA	NA
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00015	NA	NA	< 0.00018	NA	NA
Cyclohexane	NS	NS	mg/kg	< 0.00013	NA	NA	< 0.00016	NA	NA
Dibromochloromethane	NS	NS	mg/kg	< 0.00017	NA	NA	< 0.00021	NA	NA
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00024	NA	NA	< 0.00029	NA	NA
Ethylbenzene	41	1	mg/kg	0.00031 J	NA	NA	< 0.00033	NA	NA
Freon 113	NS	NS	mg/kg	< 0.00045	NA	NA	< 0.00055 J	NA	NA
Isopropylbenzene	NS	NS	mg/kg	< 0.000078	NA	NA	< 0.000095	NA	NA
Methyl Acetate	NS	NS	mg/kg	< 0.0027	NA	NA	< 0.0033	NA	NA
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00025	NA	NA	< 0.0003	NA	NA
Methylcyclohexane	NS	NS	mg/kg	< 0.00018	NA	NA	< 0.00022	NA	NA
Methylene chloride	100	0.05	mg/kg	0.0039 J	NA	NA	0.0033 J	NA	NA
Styrene	NS	NS	mg/kg	< 0.000096	NA	NA	< 0.00012	NA	NA
Tetrachloroethene	19	1.3	mg/kg	< 0.00018	NA	NA	< 0.00022	NA	NA
Toluene	100	0.7	mg/kg	0.00048 J	NA	NA	< 0.00013	NA	NA
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00025	NA	NA	< 0.0003	NA	NA
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00016	NA	NA	< 0.0002	NA	NA
Trichloroethene	21	0.47	mg/kg	< 0.00018	NA	NA	< 0.00022	NA	NA
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00031	NA	NA	< 0.00038	NA	NA
Vinyl chloride	0.9	0.02	mg/kg	< 0.00015	NA	NA	< 0.00018	NA	NA
Xylene (total)	100	1.6	mg/kg	0.0021	NA	NA	0.00051 J	NA	NA
Total TIC, Volatile	NS	NS	mg/kg	1.27 JN	0	0	0	NA	NA
SVOCs									
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0038	NA	NA	< 0.0039	NA	NA
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.038	NA	NA	< 0.039	NA	NA
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.031	NA	NA	< 0.032	NA	NA
2,4-Dichloropheno	NS	NS	mg/kg	< 0.053	NA	NA	< 0.055	NA	NA
2,4-Dimethylpheno	NS	NS	mg/kg	< 0.055	NA	NA	< 0.057	NA	NA

Table 7. Summary of Post Excavation Analytical Results, Paint Sludge Area 2, Operable Unit 1, Ramapo Paint Sl

Sample ID	375-6.8(b)	375-6.8(b)		DUP (041613)	PE-P2-6B(10.0-10.5)A	PE-P2-6B(10.0-10.5)B	PE-P2-7B(8.0-8.5)	PE-P2-7B(A) (10.0-10.5)	PE-P2-7B(B) (10.0-10.5)
Sample Date	NYS Restricted	NYS Protection		4/16/2013	7/19/2013	7/19/2013	4/16/2013	6/28/2013	6/28/2013
SVOCs cont.									
2,4-Dinitrophenol	NS	NS	mg/kg	< 0.04	NA	NA	< 0.041	NA	NA
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.014 J	NA	NA	< 0.015 J	NA	NA
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.012	NA	NA	< 0.013	NA	NA
2-Chloronaphthalene	NS	NS	mg/kg	< 0.01	NA	NA	< 0.011	NA	NA
2-Chlorophenol	NS	NS	mg/kg	< 0.033	NA	NA	< 0.034	NA	NA
2-Methylnaphthalene	NS	NS	mg/kg	< 0.018	NA	NA	< 0.019	NA	NA
2-Methylphenol	100	0.33	mg/kg	< 0.037	NA	NA	< 0.039	NA	NA
2-Nitroaniline	NS	NS	mg/kg	< 0.014	NA	NA	< 0.015	NA	NA
2-Nitrophenol	NS	NS	mg/kg	< 0.035	NA	NA	< 0.036	NA	NA
3&4-Methylphenol	NS	NS	mg/kg	< 0.042	NA	NA	< 0.043	NA	NA
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0083	NA	NA	< 0.0086	NA	NA
3-Nitroaniline	NS	NS	mg/kg	< 0.013	NA	NA	< 0.014	NA	NA
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.04 J	NA	NA	< 0.041 J	NA	NA
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.012	NA	NA	< 0.012	NA	NA
4-Chloro-3-methyl phenol	NS	NS	mg/kg	< 0.033 J	NA	NA	< 0.034 J	NA	NA
4-Chloroaniline	NS	NS	mg/kg	< 0.01	NA	NA	< 0.011	NA	NA
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	< 0.0099	NA	NA	< 0.01	NA	NA
4-Nitroaniline	NS	NS	mg/kg	< 0.013	NA	NA	< 0.013	NA	NA
4-Nitrophenol	NS	NS	mg/kg	< 0.055	NA	NA	< 0.057	NA	NA
Acenaphthene	100	98	mg/kg	< 0.0095	NA	NA	< 0.0098	NA	NA
Acenaphthylene	100	107	mg/kg	< 0.01	NA	NA	< 0.011	NA	NA
Acetophenone	NS	NS	mg/kg	< 0.0058	NA	NA	< 0.006	NA	NA
Anthracene	100	1,000	mg/kg	< 0.011	NA	NA	< 0.012	NA	NA
Atrazine	NS	NS	mg/kg	< 0.0065	NA	NA	< 0.0067	NA	NA
Benzaldehyde	NS	NS	mg/kg	< 0.0075	NA	NA	< 0.0078	NA	NA
Benzo(a)anthracene	1	1	mg/kg	< 0.011	NA	NA	< 0.011	NA	NA
Benzo(a)pyrene	1	22	mg/kg	< 0.01	NA	NA	< 0.01	NA	NA
Benzo(b)fluoranthene	1	1.7	mg/kg	< 0.011	NA	NA	< 0.011	NA	NA
Benzo(g,h,i)perylene	100	1,000	mg/kg	< 0.012	NA	NA	< 0.013	NA	NA
Benzo(k)fluoranthene	3.9	1.7	mg/kg	< 0.012	NA	NA	< 0.013	NA	NA
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.013	NA	NA	< 0.014	NA	NA
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.0099	NA	NA	< 0.01	NA	NA
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.0097	NA	NA	< 0.01	NA	NA
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.029	NA	NA	0.386	NA	NA
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.019	NA	NA	< 0.02	NA	NA
Caprolactam	NS	NS	mg/kg	< 0.01	NA	NA	< 0.011	NA	NA
Carbazole	NS	NS	mg/kg	< 0.015	NA	NA	< 0.016	NA	NA
Chrysene	3.9	1	mg/kg	< 0.011	NA	NA	< 0.011	NA	NA
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.011	NA	NA	< 0.012	NA	NA
Dibenzofuran	59	210	mg/kg	< 0.0097	NA	NA	< 0.01	NA	NA
Diethyl phthalate	NS	NS	mg/kg	< 0.011	NA	NA	< 0.012	NA	NA
Dimethyl phthalate	NS	NS	mg/kg	< 0.012	NA	NA	< 0.012	NA	NA
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0073	NA	NA	< 0.0075	NA	NA
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.016 J	NA	NA	< 0.017 J	NA	NA
Fluoranthene	100	1,000	mg/kg	< 0.014	NA	NA	< 0.015	NA	NA
Fluorene	100	386	mg/kg	< 0.011	NA	NA	< 0.011	NA	NA
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.011	NA	NA	< 0.011	NA	NA
Hexachlorobutadiene	NS	NS	mg/kg	< 0.0091	NA	NA	< 0.0094	NA	NA
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.033	NA	NA	< 0.035	NA	NA
Hexachloroethane	NS	NS	mg/kg	< 0.0091	NA	NA	< 0.0094	NA	NA
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	< 0.011	NA	NA	< 0.012	NA	NA
Isophorone	NS	NS	mg/kg	< 0.0088	NA	NA	< 0.0091	NA	NA
Naphthalene	100	12	mg/kg	< 0.0089	NA	NA	< 0.0093	NA	NA
Nitrobenzene	NS	NS	mg/kg	< 0.0095	NA	NA	< 0.0098	NA	NA
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.008	NA	NA	< 0.0083	NA	NA
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.02	NA	NA	< 0.02	NA	NA
Pentachlorophenol	6.7	0.8	mg/kg	< 0.056	NA	NA	< 0.058	NA	NA
Phenanthrene	100	1,000	mg/kg	< 0.015	NA	NA	< 0.015	NA	NA
Phenol	100	0.33	mg/kg	< 0.034	NA	NA	< 0.036	NA	NA
Pyrene	100	1,000	mg/kg	< 0.013	NA	NA	< 0.013	NA	NA
Total TIC, Semi-Volatile	NS	NS	mg/kg	0.22 JN	NA	NA	0.65 JN	NA	NA

Table 7. Summary of Post Excavation Analytical Results, Paint Sludge Area 2, Operable Unit 1, Ramapo Paint Sl

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		DUP (041613) 4/16/2013	PE-P2-6B(10.0-10.5)A 7/19/2013	PE-P2-6B(10.0-10.5)B 7/19/2013	PE-P2-7B(8.0-8.5) 4/16/2013	PE-P2-7B(A) (10.0-10.5) 6/28/2013	PE-P2-7B(B) (10.0-10.5) 6/28/2013
PCBs									
Aroclor 1016	NS	NS	mg/kg	< 0.0092	NA	NA	< 0.0085	NA	NA
Aroclor 1221	NS	NS	mg/kg	< 0.021	NA	NA	< 0.02	NA	NA
Aroclor 1232	NS	NS	mg/kg	< 0.018	NA	NA	< 0.016	NA	NA
Aroclor 1242	NS	NS	mg/kg	< 0.011 J	NA	NA	< 0.01 J	NA	NA
Aroclor 1248	NS	NS	mg/kg	< 0.011 J	NA	NA	< 0.0099 J	NA	NA
Aroclor 1254	NS	NS	mg/kg	< 0.017 J	NA	NA	< 0.015 J	NA	NA
Aroclor 1260	NS	NS	mg/kg	< 0.012 J	NA	NA	< 0.011 J	NA	NA
Aroclor 1262	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Aroclor 1268	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Metals									
Aluminum	NS	NS	mg/kg	6830	NA	NA	8460	NA	NA
Antimony	NS	NS	mg/kg	0.35 J	NA	NA	0.72 J	NA	NA
Arsenic	16	16	mg/kg	3	NA	NA	3.6	NA	NA
Barium	400	820	mg/kg	55.8 J	NA	NA	545 J	35.2	34.7
Beryllium	72	47	mg/kg	0.3	NA	NA	0.36	NA	NA
Cadmium	4.3	7.5	mg/kg	< 0.027	NA	NA	0.3 B	NA	NA
Calcium	NS	NS	mg/kg	1410 J	NA	NA	1610 J	NA	NA
Chromium	NS	NS	mg/kg	14.6 J	NA	NA	41 J	NA	NA
Cobalt	NS	NS	mg/kg	6 J	NA	NA	9.1 J	NA	NA
Copper	270	1,720	mg/kg	10.6	NA	NA	16.3	NA	NA
Iron	NS	NS	mg/kg	15800 J	NA	NA	18100 J	NA	NA
Lead	400	450	mg/kg	4.5	NA	NA	43.8	NA	NA
Magnesium	NS	NS	mg/kg	3040 J	NA	NA	4960 J	NA	NA
Manganese	2,000	2,000	mg/kg	217 J	NA	NA	640 J	NA	NA
Mercury	0.81	0.73	mg/kg	0.099	NA	NA	0.16	NA	NA
Nickel	310	130	mg/kg	13.4	NA	NA	30.2	NA	NA
Potassium	NS	NS	mg/kg	739 B	NA	NA	565 B	NA	NA
Selenium	180	4	mg/kg	< 0.26	NA	NA	< 0.25	NA	NA
Silver	180	8.3	mg/kg	< 0.068	NA	NA	< 0.067	NA	NA
Sodium	NS	NS	mg/kg	137 B	NA	NA	111 B	NA	NA
Thallium	NS	NS	mg/kg	< 0.24	NA	NA	< 0.23	NA	NA
Vanadium	NS	NS	mg/kg	23.3 J	NA	NA	26.3 J	NA	NA
Zinc	10,000	2,480	mg/kg	32.3 J	NA	NA	55.4 J	NA	NA
Other									
Solids, Percent	NS	NS	%	90.3	91.7	92	93.5	89.9	85

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater

Table 7. Summary of Post Excavation Analytical Results, Paint Sludge Area 2, Operable Unit 1, Ramapo Paint Sl

Sample ID	375-6.8(b)	375-6.8(b)		PE-P2-8B (11.0-11.5)	PE-P2-9B (8.0-8.5)	PE-P2-10B(7.0-7.5)	PE-P2-11B(6.0-6.5)	PE-P2-12B(5.5-6.0)	PE-P2-13B(4.0-4.5)
Sample Date	NYS Restricted	NYS Protection		4/17/2013	4/17/2013	4/18/2013	4/18/2013	4/19/2013	4/19/2013
VOCs									
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00013	< 0.00012	< 0.00011	< 0.00014	< 0.00012	< 0.00012
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00016	< 0.00014	< 0.00014	< 0.00018	< 0.00015	< 0.00015
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00021	< 0.00019	< 0.00019	< 0.00024	< 0.0002	< 0.0002
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00016	< 0.00015	< 0.00015	< 0.00019	< 0.00016	< 0.00016
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00031	< 0.00028	< 0.00028	< 0.00035	< 0.00029	< 0.0003
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00017	< 0.00015	< 0.00015	< 0.00019	< 0.00016	< 0.00016
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.0011	< 0.00098	< 0.00096	< 0.0012	< 0.001	< 0.001
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00015	< 0.00014	< 0.00014	< 0.00017	< 0.00014	< 0.00015
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.00023	< 0.00021	< 0.0002	< 0.00026	< 0.00022	< 0.00022
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00016	< 0.00015	< 0.00015	< 0.00018	< 0.00015	< 0.00016
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00018	< 0.00017	< 0.00017	< 0.00021	< 0.00018	< 0.00018
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.00022	< 0.00021	< 0.0002	< 0.00026	< 0.00021	< 0.00022
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00021	< 0.00019	< 0.00019	< 0.00024	< 0.0002	< 0.0002
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0029	< 0.0026	< 0.0026	< 0.0033	< 0.0027	< 0.0028
2-Hexanone	NS	NS	mg/kg	< 0.00075	< 0.00068	< 0.00067	< 0.00085	< 0.00071	< 0.00072
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.0009	0.0023 J	< 0.00081	< 0.001	< 0.00086	< 0.00087
Acetone	100	0.05	mg/kg	< 0.002	< 0.0019	< 0.0018	< 0.0023	< 0.0019	< 0.002
Benzene	4.8	0.06	mg/kg	< 0.00014	< 0.00013	< 0.00013	< 0.00016	< 0.00014	< 0.00014
Bromodichloromethane	NS	NS	mg/kg	< 0.00013	< 0.00012	< 0.00011	< 0.00014	< 0.00012	< 0.00012
Bromoform	NS	NS	mg/kg	< 0.00018	< 0.00017	< 0.00016	< 0.00021	< 0.00017	< 0.00018
Bromomethane	NS	NS	mg/kg	< 0.00033	< 0.0003	< 0.00029 J	< 0.00037	< 0.00031	< 0.00032
Carbon disulfide	NS	NS	mg/kg	< 0.00014	< 0.00013	< 0.00013	< 0.00016	< 0.00013	< 0.00014
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00016	< 0.00015	< 0.00014 J	< 0.00018	< 0.00015	< 0.00015
Chlorobenzene	100	1.1	mg/kg	< 0.00013	< 0.00012	< 0.00012	< 0.00015	< 0.00012	< 0.00013
Chloroethane	NS	NS	mg/kg	< 0.00027	< 0.00025	< 0.00024	< 0.00031	< 0.00026	< 0.00026
Chloroform	49	0.37	mg/kg	< 0.000099	< 0.000091	< 0.000089	< 0.00011	< 0.000094	< 0.000096
Chloromethane	NS	NS	mg/kg	< 0.00022	< 0.0002	< 0.0002 J	< 0.00025	< 0.00021	< 0.00022
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00022	< 0.0002	< 0.0002	< 0.00025	< 0.00021	< 0.00021
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00017	< 0.00015	< 0.00015	< 0.00019	< 0.00016	< 0.00016
Cyclohexane	NS	NS	mg/kg	< 0.00015	< 0.00014	< 0.00013 J	< 0.00017	< 0.00014	< 0.00014
Dibromochloromethane	NS	NS	mg/kg	< 0.0002	< 0.00018	< 0.00018	< 0.00022	< 0.00019	< 0.00019
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00027	< 0.00025	< 0.00024 J	< 0.00031	< 0.00026	< 0.00027
Ethylbenzene	41	1	mg/kg	< 0.00032	0.0027	< 0.00028	< 0.00036	< 0.0003	0.00034 J
Freon 113	NS	NS	mg/kg	< 0.00052	< 0.00047	< 0.00046 J	< 0.00059	< 0.00049	< 0.0005
Isopropylbenzene	NS	NS	mg/kg	< 0.000089	0.0017 J	< 0.00008	< 0.0001	< 0.000085	< 0.000087
Methyl Acetate	NS	NS	mg/kg	< 0.0031	< 0.0029	< 0.0028	< 0.0035	< 0.003 J	< 0.003 J
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00028	< 0.00026	< 0.00025	< 0.00032	< 0.00027	< 0.00027
Methylcyclohexane	NS	NS	mg/kg	< 0.0002	0.0014 J	< 0.00018 J	< 0.00023	< 0.00019	< 0.0002
Methylene chloride	100	0.05	mg/kg	0.0023 J	0.0024 J	0.0028 J	0.0041 J	0.0026 J	0.0018 J
Styrene	NS	NS	mg/kg	< 0.00011	< 0.0001	< 0.000098	< 0.00013	< 0.0001	< 0.00011
Tetrachloroethene	19	1.3	mg/kg	< 0.00021	< 0.00019	< 0.00018	< 0.00023	< 0.0002	< 0.0002
Toluene	100	0.7	mg/kg	< 0.00013	0.0011	< 0.00011	< 0.00014	< 0.00012	0.00036 J
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00029	< 0.00026	< 0.00026	< 0.00032	< 0.00027	< 0.00028
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00019	< 0.00017	< 0.00017	< 0.00021	< 0.00018	< 0.00018
Trichloroethene	21	0.47	mg/kg	< 0.00021	< 0.00019	< 0.00019	< 0.00024	< 0.0002	< 0.0002
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00036	< 0.00033	< 0.00032 J	< 0.00041	< 0.00034	< 0.00035
Vinyl chloride	0.9	0.02	mg/kg	< 0.00017	< 0.00016	< 0.00015	< 0.0002	< 0.00016	< 0.00017
Xylene (total)	100	1.6	mg/kg	< 0.00017	0.0437	< 0.00015	< 0.00019	< 0.00016	0.00057 J
Total TIC, Volatile	NS	NS	mg/kg	0	0.149 JN	0	0	0	0.011 J
SVOCs									
1,1'-Biphenyl	NS	NS	mg/kg	< 0.004	< 0.0041	R	< 0.0038	< 0.0036	< 0.0043
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.04 J	< 0.041 J	R	< 0.038	< 0.036	< 0.043
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.033 J	< 0.033 J	R	< 0.031	< 0.029	< 0.034
2,4-Dichloropheno	NS	NS	mg/kg	< 0.056	< 0.056	R	< 0.052	< 0.05	< 0.059
2,4-Dimethylpheno	NS	NS	mg/kg	< 0.059 J	< 0.059 J	R	< 0.055	< 0.052	< 0.062

Table 7. Summary of Post Excavation Analytical Results, Paint Sludge Area 2, Operable Unit 1, Ramapo Paint Sl

Sample ID	375-6.8(b)	375-6.8(b)		PE-P2-8B (11.0-11.5)	PE-P2-9B (8.0-8.5)	PE-P2-10B(7.0-7.5)	PE-P2-11B(6.0-6.5)	PE-P2-12B(5.5-6.0)	PE-P2-13B(4.0-4.5)
Sample Date	NYS Restricted	NYS Protection		4/17/2013	4/17/2013	4/18/2013	4/18/2013	4/19/2013	4/19/2013
SVOCs cont.									
2,4-Dinitrophenol	NS	NS	mg/kg	< 0.043 J	< 0.043 J	R	< 0.04	< 0.038	< 0.045
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.015	< 0.015	R	< 0.014	< 0.014	< 0.016
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.013 J	< 0.013 J	R	< 0.012	< 0.012	< 0.014
2-Chloronaphthalene	NS	NS	mg/kg	< 0.011	< 0.011	R	< 0.01	< 0.0097	< 0.011
2-Chlorophenol	NS	NS	mg/kg	< 0.035	< 0.035	R	< 0.033	< 0.031	< 0.037
2-Methylnaphthalene	NS	NS	mg/kg	< 0.019	0.0479 J	R	< 0.018	< 0.017	< 0.02
2-Methylphenol	100	0.33	mg/kg	< 0.04	< 0.04	R	< 0.037	< 0.035	< 0.042
2-Nitroaniline	NS	NS	mg/kg	< 0.015 J	< 0.015 J	R	< 0.014	< 0.014	< 0.016
2-Nitrophenol	NS	NS	mg/kg	< 0.037	< 0.037	R	< 0.034	< 0.033	< 0.039
3&4-Methylphenol	NS	NS	mg/kg	< 0.044 J	< 0.045 J	R	< 0.041	< 0.04	< 0.047
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0089 J	< 0.0089 J	R	< 0.0083 J	< 0.0079 J	< 0.0093 J
3-Nitroaniline	NS	NS	mg/kg	< 0.014	< 0.014	R	< 0.013 J	< 0.012 J	< 0.015 J
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.043 J	< 0.043 J	R	< 0.04	< 0.038	< 0.045
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.013	< 0.013	R	< 0.012	< 0.011	< 0.013
4-Chloro-3-methyl phenol	NS	NS	mg/kg	< 0.035 J	< 0.035 J	R	< 0.032	< 0.031	< 0.037
4-Chloroaniline	NS	NS	mg/kg	< 0.011 J	< 0.011 J	R	< 0.01	< 0.01	< 0.012
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	< 0.011	< 0.011	R	< 0.0098	< 0.0094	< 0.011
4-Nitroaniline	NS	NS	mg/kg	< 0.014	< 0.014	R	< 0.013 J	< 0.012 J	< 0.014 J
4-Nitrophenol	NS	NS	mg/kg	< 0.059 J	< 0.059 J	R	< 0.055 J	< 0.053 J	< 0.062 J
Acenaphthene	100	98	mg/kg	< 0.01	< 0.01	R	< 0.0094	< 0.009	< 0.011
Acenaphthylene	100	107	mg/kg	< 0.011	< 0.011	R	< 0.01	< 0.01	< 0.012
Acetophenone	NS	NS	mg/kg	< 0.0061	< 0.0062	R	< 0.0057	< 0.0055	< 0.0065
Anthracene	100	1,000	mg/kg	< 0.012	< 0.012	R	< 0.011	< 0.011	< 0.013
Atrazine	NS	NS	mg/kg	< 0.0069 J	< 0.0069 J	R	< 0.0064	< 0.0061	< 0.0072
Benzaldehyde	NS	NS	mg/kg	< 0.008	< 0.0081	R	< 0.0075	< 0.0072	< 0.0084
Benzo(a)anthracene	1	1	mg/kg	< 0.011	< 0.011	R	< 0.011	< 0.01	< 0.012
Benzo(a)pyrene	1	22	mg/kg	< 0.011	< 0.011	R	< 0.0099	< 0.0095	< 0.011
Benzo(b)fluoranthene	1	1.7	mg/kg	< 0.012	< 0.012	R	< 0.011	< 0.01	< 0.012
Benzo(g,h,i)perylene	100	1,000	mg/kg	< 0.013	< 0.013	R	< 0.012	< 0.012	< 0.014
Benzo(k)fluoranthene	3.9	1.7	mg/kg	< 0.013 J	< 0.013 J	R	< 0.012	< 0.012	< 0.014
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.014	< 0.014	R	< 0.013	< 0.013	< 0.015
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.011	< 0.011	R	< 0.0098	< 0.0094	< 0.011
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.01	< 0.01	R	< 0.0096	< 0.0092	< 0.011
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.031 J	0.182 J	R	< 0.029 J	< 0.027 J	0.0419 J
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.02 J	< 0.02 J	R	< 0.019 J	< 0.018 J	< 0.021 J
Caprolactam	NS	NS	mg/kg	< 0.011	< 0.011	R	< 0.01	< 0.0098	< 0.012
Carbazole	NS	NS	mg/kg	< 0.016	< 0.016	R	< 0.015	< 0.014	< 0.017
Chrysene	3.9	1	mg/kg	< 0.012	< 0.012	R	< 0.011	< 0.011	< 0.012
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.012	< 0.012	R	< 0.011	< 0.011	< 0.012
Dibenzofuran	59	210	mg/kg	< 0.01	< 0.01	R	< 0.0096	< 0.0092	< 0.011
Diethyl phthalate	NS	NS	mg/kg	< 0.012	< 0.012	R	< 0.011	< 0.011	< 0.012
Dimethyl phthalate	NS	NS	mg/kg	< 0.012	< 0.012	R	< 0.011	< 0.011	0.0461 J
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0078 J	< 0.0078 J	R	< 0.0072	< 0.0069	< 0.0081
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.017 J	< 0.017 J	R	< 0.016	< 0.015	< 0.018
Fluoranthene	100	1,000	mg/kg	< 0.015	< 0.015	R	< 0.014	< 0.014	< 0.016
Fluorene	100	386	mg/kg	< 0.011	< 0.012	R	< 0.011	< 0.01	< 0.012
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.011	< 0.011	R	< 0.011	< 0.01	< 0.012
Hexachlorobutadiene	NS	NS	mg/kg	< 0.0097	< 0.0097	R	< 0.009	< 0.0087	< 0.01
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.036 J	< 0.036 J	R	< 0.033	< 0.032 J	< 0.037
Hexachloroethane	NS	NS	mg/kg	< 0.0097	< 0.0097	R	< 0.009	< 0.0087	< 0.01
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	< 0.012	< 0.012	R	< 0.011	< 0.011	< 0.013
Isophorone	NS	NS	mg/kg	< 0.0094	< 0.0094	R	< 0.0087	< 0.0084	< 0.0099
Naphthalene	100	12	mg/kg	< 0.0095	0.0815	R	< 0.0089	< 0.0085	0.0162 J
Nitrobenzene	NS	NS	mg/kg	< 0.01	< 0.01	R	< 0.0094	< 0.009	< 0.011
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0085	< 0.0086	R	< 0.0079	< 0.0076	< 0.0089
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.021	< 0.021	R	< 0.019	< 0.019	< 0.022
Pentachlorophenol	6.7	0.8	mg/kg	< 0.06 J	< 0.06 J	R	< 0.056	< 0.053	< 0.063
Phenanthrene	100	1,000	mg/kg	< 0.016	< 0.016	R	< 0.015	< 0.014	< 0.017
Phenol	100	0.33	mg/kg	< 0.037	< 0.037	R	< 0.034	< 0.033	< 0.038
Pyrene	100	1,000	mg/kg	< 0.013	< 0.013	R	< 0.012	< 0.012	< 0.014
Total TIC, Semi-Volatile	NS	NS	mg/kg	0	3.3 JN	0.82 JN	0.6 JN	0	0

Table 7. Summary of Post Excavation Analytical Results, Paint Sludge Area 2, Operable Unit 1, Ramapo Paint Sl

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P2-8B (11.0-11.5) 4/17/2013	PE-P2-9B (8.0-8.5) 4/17/2013	PE-P2-10B(7.0-7.5) 4/18/2013	PE-P2-11B(6.0-6.5) 4/18/2013	PE-P2-12B(5.5-6.0) 4/19/2013	PE-P2-13B(4.0-4.5) 4/19/2013
PCBs									
Aroclor 1016	NS	NS	mg/kg	< 0.0091	< 0.0093	< 0.009	< 0.0093	< 0.0089	< 0.01
Aroclor 1221	NS	NS	mg/kg	< 0.021	< 0.022	< 0.021	< 0.022	< 0.021	< 0.023
Aroclor 1232	NS	NS	mg/kg	< 0.018	< 0.018	< 0.018	< 0.018	< 0.017	< 0.02
Aroclor 1242	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.012
Aroclor 1248	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	< 0.011	< 0.01	< 0.012
Aroclor 1254	NS	NS	mg/kg	< 0.016	< 0.017	< 0.016	< 0.017	< 0.016	< 0.018
Aroclor 1260	NS	NS	mg/kg	< 0.011	< 0.012	< 0.011	< 0.012	< 0.011	< 0.013
Aroclor 1262	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.012
Aroclor 1268	NS	NS	mg/kg	< 0.01	< 0.011	< 0.01	< 0.011	< 0.01	< 0.011
Metals									
Aluminum	NS	NS	mg/kg	6950	9210	7880	8160	6850 J	15800 J
Antimony	NS	NS	mg/kg	0.59 B	0.74 B	0.31 B	0.25 B	0.52 J	0.94 J
Arsenic	16	16	mg/kg	2.5	4.3	3.1	3.5	1.9 B	3.1
Barium	400	820	mg/kg	36.6	122	31.9	32.8	18.6 J	57.9 J
Beryllium	72	47	mg/kg	0.27	0.46	0.35	0.36	0.46	0.8
Cadmium	4.3	7.5	mg/kg	0.082 B	0.23 B	0.051 B	0.073 B	0.082 B	0.08 B
Calcium	NS	NS	mg/kg	1550	1720	1630	1140	1900 J	1000 J
Chromium	NS	NS	mg/kg	19.8	22.9	19.1	17	12.7 J	22.7 J
Cobalt	NS	NS	mg/kg	6.3	9.6	7.3	7.5	6.2 J	8.6 J
Copper	270	1,720	mg/kg	11.4	20.5	14	15.1	8.8	9.3
Iron	NS	NS	mg/kg	19800	18400	20900	18200	18600 J	22800 J
Lead	400	450	mg/kg	5.3	15.1	4.2	6.6	3	12.2
Magnesium	NS	NS	mg/kg	3270	3280	3930	3940	3300 J	3030 J
Manganese	2,000	2,000	mg/kg	223	883	511	437	416 J	929 J
Mercury	0.81	0.73	mg/kg	0.037	0.03 B	< 0.016	< 0.017	< 0.015	0.034 B
Nickel	310	130	mg/kg	14	19.5	16.8	17.3	13.9	15.2
Potassium	NS	NS	mg/kg	626 B	936 B	679 B	758 B	524 B	581 B
Selenium	180	4	mg/kg	0.75 B	0.68 B	< 0.25	< 0.25	1.5 B	2.4
Silver	180	8.3	mg/kg	0.76	0.69	< 0.065	< 0.066	0.4 B	0.25 B
Sodium	NS	NS	mg/kg	118 B	143 B	117 B	96.9 B	115 B	102 B
Thallium	NS	NS	mg/kg	< 0.22	< 0.23	< 0.22	< 0.23	< 0.22	< 0.25
Vanadium	NS	NS	mg/kg	39.5	29.4	34.3	24.1	22.9 J	38.6 J
Zinc	10,000	2,480	mg/kg	32.9	49.8	34.2	34.8	29.6 J	51.1 J
Other									
Solids, Percent	NS	NS	%	92.7	91.1	93.1	91.6	95.3	84.2

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater

Table 7. Summary of Post Excavation Analytical Results, Paint Sludge Area 2, Operable Unit 1, Ramapo Paint Sl

Sample ID	375-6.8(b)	375-6.8(b)		PE-P2-14B(6.0-6.5)	PE-P2-15B (6.0-6.5)	PE-P2-16B (6.0-6.5)	PE-P2-17B (5.5-6.0)	PE-P2-18B (6.5-7.0)	PE-P2-19B (10.0-10.5)
Sample Date	NYS Restricted	NYS Protection		4/22/2013	4/23/2013	4/23/2013	4/23/2013	4/24/2013	5/6/2013
VOCs									
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00013	< 0.00012 J	< 0.00012 J	< 0.00014	< 0.00012	< 0.000083
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00016	< 0.00016	< 0.00015	< 0.00017	< 0.00015	< 0.0001
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00021	< 0.0002	< 0.00019	< 0.00023	< 0.00019	< 0.00014
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00016	< 0.00016	< 0.00015	< 0.00018	< 0.00015	< 0.00011
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00031	< 0.0003	< 0.00028	< 0.00034	< 0.00028	< 0.0002
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00017	< 0.00016	< 0.00015	< 0.00018	< 0.00015	< 0.00011
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.0011	< 0.001	< 0.00098	< 0.0012	< 0.00098	< 0.00069
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00015	< 0.00015	< 0.00014	< 0.00017	< 0.00014	< 0.000099
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.00023	< 0.00022	< 0.00021	< 0.00025	< 0.00021	< 0.00015
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00016	< 0.00016	< 0.00015	< 0.00018	< 0.00015	< 0.00011
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00019	< 0.00018	< 0.00017	< 0.0002	< 0.00017	< 0.00012
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.00023	< 0.00022	< 0.00021	< 0.00024	< 0.00021	< 0.00015
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00021	< 0.00021	< 0.00019	< 0.00023	< 0.00019	< 0.00014
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0029	< 0.0028	< 0.0031	< 0.0031	< 0.0026	< 0.0019
2-Hexanone	NS	NS	mg/kg	< 0.00075	< 0.00073	< 0.00068	< 0.00081	< 0.00069	< 0.00048
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.0009	< 0.00088	< 0.00083	< 0.00098	< 0.00083	< 0.00058
Acetone	100	0.05	mg/kg	< 0.002	< 0.002	< 0.0019	< 0.0022	< 0.0019	< 0.0013
Benzene	4.8	0.06	mg/kg	< 0.00014	< 0.00014	< 0.00013	< 0.00016	< 0.00013	< 0.000093
Bromodichloromethane	NS	NS	mg/kg	< 0.00013	< 0.00012	< 0.00012	< 0.00014	< 0.00012	< 0.000082
Bromoform	NS	NS	mg/kg	< 0.00018	< 0.00018	< 0.00017	< 0.0002	< 0.00017	< 0.00012
Bromomethane	NS	NS	mg/kg	< 0.00033	< 0.00032	< 0.0003	< 0.00036	< 0.0003	< 0.00021 J
Carbon disulfide	NS	NS	mg/kg	< 0.00014	< 0.00014	< 0.00013	< 0.00015	< 0.00013	< 0.000091
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00016	< 0.00016 J	< 0.00015 J	< 0.00017	< 0.00015	< 0.0001
Chlorobenzene	100	1.1	mg/kg	< 0.00013	< 0.00013	< 0.00012	< 0.00014	< 0.00012	< 0.000084
Chloroethane	NS	NS	mg/kg	< 0.00027	< 0.00027	< 0.00025	< 0.0003	< 0.00025	< 0.00018
Chloroform	49	0.37	mg/kg	< 0.000099	< 0.000097	< 0.000091	< 0.00011	< 0.000091	< 0.000064
Chloromethane	NS	NS	mg/kg	< 0.00022	< 0.00022	< 0.0002	< 0.00024	< 0.00021	< 0.00014
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00022	< 0.00021	< 0.0002	< 0.00024	< 0.0002	< 0.00014
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00017	< 0.00016	< 0.00015	< 0.00018	< 0.00015	< 0.00011
Cyclohexane	NS	NS	mg/kg	< 0.00015	< 0.00015	< 0.00014	< 0.00016	< 0.00014	< 0.000097
Dibromochloromethane	NS	NS	mg/kg	< 0.0002	< 0.00019	< 0.00018	< 0.00021	< 0.00018	< 0.00013
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00027	< 0.00027 J	< 0.00025 J	< 0.0003	< 0.00025	< 0.00018
Ethylbenzene	41	1	mg/kg	< 0.00032	< 0.00031	< 0.00029	0.00042 J	< 0.00029	0.00097
Freon 113	NS	NS	mg/kg	< 0.00052	< 0.00051 J	< 0.00047 J	< 0.00056	< 0.00047	< 0.00033 J
Isopropylbenzene	NS	NS	mg/kg	< 0.000089	< 0.000087	< 0.000082	< 0.000097	< 0.000082	< 0.000058
Methyl Acetate	NS	NS	mg/kg	< 0.0031	< 0.0031	< 0.0029	< 0.0034	< 0.0029	< 0.002
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00028	< 0.00028	< 0.00026	< 0.00031	< 0.00026	< 0.00018
Methylcyclohexane	NS	NS	mg/kg	< 0.0002	< 0.0002 J	< 0.00019 J	< 0.00022	< 0.00019	< 0.00013
Methylene chloride	100	0.05	mg/kg	0.0056 J	< 0.0015	< 0.0014	0.0054 J	0.0056 J	0.0028 J
Styrene	NS	NS	mg/kg	< 0.00011	< 0.00011	< 0.0001	< 0.00012	< 0.0001	< 0.000071
Tetrachloroethene	19	1.3	mg/kg	< 0.00021	< 0.0002 J	< 0.00019 J	< 0.00022	< 0.00019	< 0.00013
Toluene	100	0.7	mg/kg	< 0.00013	< 0.00012	0.00052 J	0.00047 J	0.00046 J	0.0015
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00029	< 0.00028	< 0.00026	< 0.00031	< 0.00026	< 0.00019
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00019	< 0.00018	< 0.00017	< 0.0002	< 0.00017	< 0.00012
Trichloroethene	21	0.47	mg/kg	< 0.00021	< 0.0002 J	< 0.00019 J	< 0.00023	< 0.00019	< 0.00014
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00036	< 0.00035 J	< 0.00033 J	< 0.00039	< 0.00033	< 0.00023
Vinyl chloride	0.9	0.02	mg/kg	< 0.00017	< 0.00017	< 0.00016	< 0.00019	< 0.00016	< 0.00011
Xylene (total)	100	1.6	mg/kg	< 0.00017	< 0.00016	0.0008 J	0.0029	< 0.00015	0.0072 J
Total TIC, Volatile	NS	NS	mg/kg	0	0	0	0	0	0
SVOCs									
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0042	< 0.004	< 0.0036	< 0.0035	< 0.0039	< 0.0039
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.042	< 0.04	< 0.036	< 0.035	< 0.039	< 0.039
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.034	< 0.032	< 0.029	< 0.028	< 0.031	< 0.031
2,4-Dichloropheno	NS	NS	mg/kg	< 0.059	< 0.055	< 0.05	< 0.048	< 0.054	< 0.054
2,4-Dimethylpheno	NS	NS	mg/kg	< 0.061	< 0.057	< 0.052	< 0.051	< 0.056	< 0.056

Table 7. Summary of Post Excavation Analytical Results, Paint Sludge Area 2, Operable Unit 1, Ramapo Paint Sl

Sample ID	375-6.8(b)	375-6.8(b)		PE-P2-14B(6.0-6.5)	PE-P2-15B (6.0-6.5)	PE-P2-16B (6.0-6.5)	PE-P2-17B (5.5-6.0)	PE-P2-18B (6.5-7.0)	PE-P2-19B (10.0-10.5)
Sample Date	NYS Restricted	NYS Protection		4/22/2013	4/23/2013	4/23/2013	4/23/2013	4/24/2013	5/6/2013
SVOCs cont.									
2,4-Dinitrophenol	NS	NS	mg/kg	< 0.045 J	< 0.042	< 0.038	< 0.037	< 0.041 J	< 0.041
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.016 J	< 0.015 J	< 0.015 J	< 0.013 J	< 0.015 J	< 0.015
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.014	< 0.013 J	< 0.012 J	< 0.011 J	< 0.013 J	< 0.013
2-Chloronaphthalene	NS	NS	mg/kg	< 0.011	< 0.011	< 0.0096	< 0.0093	< 0.01	< 0.01
2-Chlorophenol	NS	NS	mg/kg	< 0.037	< 0.034	< 0.031	< 0.03	< 0.034	< 0.034
2-Methylnaphthalene	NS	NS	mg/kg	< 0.02	< 0.019	< 0.017	< 0.017	< 0.019	< 0.019
2-Methylphenol	100	0.33	mg/kg	< 0.042	< 0.039	< 0.035	< 0.034	< 0.038	< 0.038
2-Nitroaniline	NS	NS	mg/kg	< 0.016	< 0.015	< 0.014	< 0.013	< 0.015	< 0.015
2-Nitrophenol	NS	NS	mg/kg	< 0.039 J	< 0.036	< 0.033	< 0.032	< 0.035	< 0.035
3&4-Methylphenol	NS	NS	mg/kg	< 0.046	< 0.043	< 0.039	< 0.038	< 0.042	< 0.042
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0093	< 0.0087	< 0.0079	< 0.0076	< 0.0085	< 0.0085
3-Nitroaniline	NS	NS	mg/kg	< 0.015	< 0.014	< 0.012	< 0.012	< 0.013	< 0.013
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.045 J	< 0.042 J	< 0.038 J	< 0.037 J	< 0.041	< 0.041
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.013	< 0.012	< 0.011	< 0.011	< 0.012	< 0.012
4-Chloro-3-methyl phenol	NS	NS	mg/kg	< 0.036 J	< 0.034	< 0.031	< 0.03	< 0.033	< 0.033
4-Chloroaniline	NS	NS	mg/kg	< 0.012	< 0.011	< 0.0099	< 0.0096	< 0.011	< 0.011
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	< 0.011	< 0.01	< 0.0093	< 0.0091	< 0.01	< 0.01
4-Nitroaniline	NS	NS	mg/kg	< 0.014	< 0.013	< 0.012	< 0.012	< 0.013	< 0.013
4-Nitrophenol	NS	NS	mg/kg	< 0.062	< 0.058	< 0.052	< 0.051	< 0.056 J	< 0.056 J
Acenaphthene	100	98	mg/kg	< 0.011	< 0.0099	< 0.009	< 0.0087	< 0.0097	< 0.0097
Acenaphthylene	100	107	mg/kg	< 0.012	< 0.011	< 0.0099	< 0.0096	< 0.011	< 0.011
Acetophenone	NS	NS	mg/kg	< 0.0064	< 0.006	< 0.0055	< 0.0053	< 0.0059	< 0.0059 J
Anthracene	100	1,000	mg/kg	< 0.013	< 0.012	< 0.011	< 0.011	< 0.012	< 0.012
Atrazine	NS	NS	mg/kg	< 0.0072	< 0.0067	< 0.0061	< 0.0059	< 0.0066	< 0.0066 J
Benzaldehyde	NS	NS	mg/kg	< 0.0084	< 0.0078	< 0.0071	< 0.0069	< 0.0077	< 0.0077
Benzo(a)anthracene	1	1	mg/kg	< 0.012	< 0.01	< 0.01	< 0.0098	< 0.011	< 0.011
Benzo(a)pyrene	1	22	mg/kg	< 0.011	< 0.01	< 0.0095	< 0.0092	< 0.01	< 0.01
Benzo(b)fluoranthene	1	1.7	mg/kg	< 0.012	< 0.011	< 0.01	< 0.01	< 0.011	< 0.011
Benzo(g,h,i)perylene	100	1,000	mg/kg	< 0.014	< 0.013	< 0.012	< 0.011	< 0.012	< 0.012
Benzo(k)fluoranthene	3.9	1.7	mg/kg	< 0.014	< 0.013	< 0.012	< 0.011	< 0.013	< 0.013
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.015	< 0.014	< 0.013	< 0.012	< 0.013	< 0.013
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.011	< 0.01	< 0.0093	< 0.0091	< 0.01	< 0.01
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.011	< 0.01	< 0.0092	< 0.0089	< 0.0099	< 0.0099
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.032	< 0.03	< 0.027	< 0.027	< 0.029	< 0.029
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.021	< 0.02	< 0.018	< 0.017	< 0.019	< 0.019
Caprolactam	NS	NS	mg/kg	< 0.011	< 0.011	< 0.0098	< 0.0095	< 0.01	< 0.01
Carbazole	NS	NS	mg/kg	< 0.017	< 0.016	< 0.014	< 0.014	< 0.015	< 0.015
Chrysene	3.9	1	mg/kg	< 0.012	< 0.012	< 0.01	< 0.01	< 0.011	< 0.011
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.012	< 0.012	< 0.011	< 0.01	< 0.011	< 0.011
Dibenzofuran	59	210	mg/kg	< 0.011	< 0.01	< 0.0092	< 0.0089	< 0.0099	< 0.0099
Diethyl phthalate	NS	NS	mg/kg	< 0.012	< 0.012	< 0.011	< 0.01	< 0.011	< 0.011
Dimethyl phthalate	NS	NS	mg/kg	< 0.013	< 0.012	< 0.011	< 0.011	0.0479 J	0.0821
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0081	< 0.0076	< 0.0069	< 0.0067	< 0.0074	< 0.0074
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.018 J	< 0.017 J	< 0.015 J	< 0.015 J	< 0.016	< 0.016
Fluoranthene	100	1,000	mg/kg	< 0.016	< 0.015	< 0.014	< 0.013	< 0.015	< 0.015
Fluorene	100	386	mg/kg	< 0.012	< 0.011	< 0.01	< 0.0099	< 0.011	< 0.011
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.012	< 0.011	< 0.01	< 0.0098	< 0.011	< 0.011
Hexachlorobutadiene	NS	NS	mg/kg	< 0.01	< 0.0095	< 0.0086	< 0.0084	< 0.0093	< 0.0093
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.037	< 0.035	< 0.032	< 0.031	< 0.034	< 0.034 J
Hexachloroethane	NS	NS	mg/kg	< 0.01	< 0.0095	< 0.0086	< 0.0084	< 0.0093	< 0.0093
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	< 0.013	< 0.012	< 0.011	< 0.01	< 0.012	< 0.012
Isophorone	NS	NS	mg/kg	< 0.0098	< 0.0092	< 0.0083	< 0.0081	< 0.009	< 0.009
Naphthalene	100	12	mg/kg	< 0.01	< 0.0093	< 0.0085	< 0.0082	< 0.0091	< 0.0091
Nitrobenzene	NS	NS	mg/kg	< 0.011	< 0.0099	< 0.009	< 0.0087	< 0.0096	< 0.0096
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0089	< 0.0083	< 0.0076	< 0.0073	< 0.0081	< 0.0081
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.022	< 0.02	< 0.019	< 0.018	< 0.02	< 0.02
Pentachlorophenol	6.7	0.8	mg/kg	< 0.062	< 0.058 J	< 0.053 J	< 0.051 J	< 0.057	< 0.057 J
Phenanthrene	100	1,000	mg/kg	< 0.017	< 0.016	< 0.014	< 0.014	< 0.015	< 0.015
Phenol	100	0.33	mg/kg	< 0.038	< 0.036	< 0.033	< 0.032	< 0.035	< 0.035
Pyrene	100	1,000	mg/kg	< 0.014	< 0.013	< 0.012	< 0.012	< 0.013	< 0.013
Total TIC, Semi-Volatile	NS	NS	mg/kg	0	0	0	0	0.16 JN	0.57 JN

Table 7. Summary of Post Excavation Analytical Results, Paint Sludge Area 2, Operable Unit 1, Ramapo Paint Sl

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P2-14B(6.0-6.5) 4/22/2013	PE-P2-15B (6.0-6.5) 4/23/2013	PE-P2-16B (6.0-6.5) 4/23/2013	PE-P2-17B (5.5-6.0) 4/23/2013	PE-P2-18B (6.5-7.0) 4/24/2013	PE-P2-19B (10.0-10.5) 5/6/2013
PCBs									
Aroclor 1016	NS	NS	mg/kg	< 0.0094	< 0.0088	< 0.0088	< 0.009	< 0.009	< 0.0089
Aroclor 1221	NS	NS	mg/kg	< 0.022	< 0.02	< 0.02	< 0.021	< 0.021	< 0.021
Aroclor 1232	NS	NS	mg/kg	< 0.018	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
Aroclor 1242	NS	NS	mg/kg	< 0.011 J	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Aroclor 1248	NS	NS	mg/kg	< 0.011 J	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aroclor 1254	NS	NS	mg/kg	< 0.017 J	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Aroclor 1260	NS	NS	mg/kg	< 0.012 J	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Aroclor 1262	NS	NS	mg/kg	< 0.011 J	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Aroclor 1268	NS	NS	mg/kg	< 0.011 J	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Metals									
Aluminum	NS	NS	mg/kg	11400	10100	7780	10000	7930	7650
Antimony	NS	NS	mg/kg	0.23 B	0.9 B	0.72 B	0.49 B	< 0.16	0.21 B
Arsenic	16	16	mg/kg	3.6	3	4	2.7	4.3	3.1
Barium	400	820	mg/kg	29.7	38.6	31.1	38.9	31.8	29.5
Beryllium	72	47	mg/kg	0.65	0.63	0.5	0.63	0.42	0.51
Cadmium	4.3	7.5	mg/kg	< 0.57 UB	< 0.027	< 0.027	0.054 B	0.096 B	0.12 B
Calcium	NS	NS	mg/kg	1910	2580	2090	1900	2110	2080
Chromium	NS	NS	mg/kg	37.1	28	19.1	18.1	15.5	28.3
Cobalt	NS	NS	mg/kg	7.2	9.1	7.1	6.9	8.6	7.7
Copper	270	1,720	mg/kg	R	12	10.8	15.8	14.4	13.9
Iron	NS	NS	mg/kg	28100	26300	21500	19200	22100	19700
Lead	400	450	mg/kg	3.9	4.6	3.3	6.3	4.4	4.6
Magnesium	NS	NS	mg/kg	3820	4970	3490	3570	3410	4360
Manganese	2,000	2,000	mg/kg	214	698	471	372	572	268
Mercury	0.81	0.73	mg/kg	< 0.016	< 0.016	< 0.016	0.016 B	< 0.016	< 0.035 UB
Nickel	310	130	mg/kg	14.4	19.5	14.9	19.4	16.2	17.2
Potassium	NS	NS	mg/kg	640 B	766 B	736 B	876 B	684 B	736 B
Selenium	180	4	mg/kg	< 0.27 J	1.5 B	0.91 B	1 B	< 0.26	1 B
Silver	180	8.3	mg/kg	1	< 0.067	0.087 B	0.086 B	0.86	< 0.069
Sodium	NS	NS	mg/kg	< 1100 UB	159 B	117 B	168 B	154 B	158 B
Thallium	NS	NS	mg/kg	< 0.25	< 0.23	< 0.24	< 0.23	< 0.23	< 0.24
Vanadium	NS	NS	mg/kg	53.5	44.8	34.3	27.6	31.7	34.6
Zinc	10,000	2,480	mg/kg	28.9	44.5	31.4	37.1	39.3	39.5
Other									
Solids, Percent	NS	NS	%	88.4	94.6	94.8	93.4	92.4	94.4

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater

Table 7. Summary of Post Excavation Analytical Results, Paint Sludge Area 2, Operable Unit 1, Ramapo Paint Sl

Sample ID	375-6.8(b)	375-6.8(b)		PE-P2-20B(9.5-10.0)	PE-P2-21B (3.0-3.5)	PE-P2-22B (9.0-9.5)	PE-P2-23B (5.5-6.0)	PE-P2-1SW (4.0-4.5)	PE-P2-2SW (3.0-3.5)
Sample Date	NYS Restricted	NYS Protection		5/28/2013	6/18/2013	6/19/2013	6/19/2013	4/9/2013	4/9/2013
VOCS									
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00011	< 0.00012	< 0.0001	< 0.00011	< 0.00012	< 0.00013
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00013	< 0.00015	< 0.00013	< 0.00014	< 0.00015	< 0.00016
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00017	< 0.0002	< 0.00017	< 0.00018	< 0.00019	< 0.00022
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00014	< 0.00016	< 0.00013	< 0.00014	< 0.00015	< 0.00017
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00026	< 0.0003	< 0.00024	< 0.00027	< 0.00029	< 0.00032
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00014	< 0.00016	< 0.00013	< 0.00014	< 0.00016	< 0.00017
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.00089 J	< 0.001	< 0.00085 J	< 0.00093 J	< 0.00099	< 0.0011
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00013	< 0.00015	< 0.00012	< 0.00013	< 0.00014	< 0.00016
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.00019	< 0.00022	< 0.00018	< 0.0002	< 0.00021	< 0.00023
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00013	< 0.00016	< 0.00013	< 0.00014	< 0.00015	< 0.00017
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00015	< 0.00018	< 0.00015	< 0.00016	< 0.00017	< 0.00019
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.00019	< 0.00022	< 0.00018	< 0.00019	< 0.00021	< 0.00023
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00018	< 0.00021	< 0.00017	< 0.00018	< 0.0002	< 0.00022
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0024	< 0.0028	< 0.0023	< 0.0025	< 0.0027	< 0.003
2-Hexanone	NS	NS	mg/kg	< 0.00062	< 0.00072	< 0.00059	< 0.00065	< 0.00069	< 0.00077
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.00075	< 0.00088	< 0.00071	< 0.00078	< 0.00084	< 0.00093
Acetone	100	0.05	mg/kg	< 0.0017	< 0.002 J	< 0.0016	< 0.0018	< 0.0019	< 0.0021
Benzene	4.8	0.06	mg/kg	< 0.00012	< 0.00014	< 0.00011	< 0.00012	< 0.00013	< 0.00015
Bromodichloromethane	NS	NS	mg/kg	< 0.0001	< 0.00012	< 0.0001	< 0.00011	< 0.00012	< 0.00013
Bromoform	NS	NS	mg/kg	< 0.00015	< 0.00018	< 0.00014 J	< 0.00016 J	< 0.00017	< 0.00019
Bromomethane	NS	NS	mg/kg	< 0.00027	< 0.00032	< 0.00026	< 0.00028	< 0.0003	< 0.00034
Carbon disulfide	NS	NS	mg/kg	< 0.00012	< 0.00014	< 0.00011	< 0.00012	< 0.00013	< 0.00015
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00013	< 0.00016 J	< 0.00013 J	< 0.00014 J	< 0.00015	< 0.00017
Chlorobenzene	100	1.1	mg/kg	< 0.00011	< 0.00013	< 0.0001	< 0.00011	< 0.00012	< 0.00013
Chloroethane	NS	NS	mg/kg	< 0.00023	< 0.00026	< 0.00022	< 0.00024	< 0.00025	< 0.00028
Chloroform	49	0.37	mg/kg	< 0.000083	< 0.000096	< 0.000079	< 0.000086	< 0.000092	< 0.0001
Chloromethane	NS	NS	mg/kg	< 0.00019	< 0.00022	< 0.00018 J	< 0.00019 J	< 0.00021	< 0.00023
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00018	< 0.00021	< 0.00017	< 0.00019	< 0.0002	< 0.00023
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00014	< 0.00016	< 0.00013	< 0.00014	< 0.00016	< 0.00017
Cyclohexane	NS	NS	mg/kg	< 0.00012	< 0.00014	< 0.00012	< 0.00013	< 0.00014	< 0.00015
Dibromochloromethane	NS	NS	mg/kg	< 0.00016	< 0.00019	< 0.00016	< 0.00017	< 0.00018	< 0.0002
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00023	< 0.00027	< 0.00022	< 0.00024	< 0.00025	< 0.00028
Ethylbenzene	41	1	mg/kg	0.0052	< 0.00031	0.00091 J	< 0.00027	< 0.00029	< 0.00033
Freon 113	NS	NS	mg/kg	< 0.00043	< 0.0005	< 0.00041 J	< 0.00045 J	< 0.00048	< 0.00053
Isopropylbenzene	NS	NS	mg/kg	0.00083 J	< 0.000087	< 0.000071	< 0.000077	< 0.000083	< 0.000092
Methyl Acetate	NS	NS	mg/kg	< 0.0026	< 0.003	< 0.0025	< 0.0027	< 0.0029 J	< 0.0032 J
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00023	< 0.00027	< 0.00022	< 0.00024	< 0.00026	< 0.00029
Methylcyclohexane	NS	NS	mg/kg	0.00064 J	< 0.0002	< 0.00016	< 0.00018	< 0.00019	< 0.00021
Methylene chloride	100	0.05	mg/kg	0.009	0.0027 J	0.0016 J	< 0.0013	< 0.0056 UB	< 0.0062 UB
Styrene	NS	NS	mg/kg	< 0.000092	< 0.00011	< 0.000087	< 0.000095	< 0.0001	< 0.00011
Tetrachloroethene	19	1.3	mg/kg	< 0.00017	< 0.0002	< 0.00016	< 0.00018	< 0.00019	< 0.00021
Toluene	100	0.7	mg/kg	0.0048	< 0.00012	0.002	< 0.00011	< 0.00012	< 0.00013
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00024	< 0.00028	< 0.00023	< 0.00025	< 0.00027	< 0.0003
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00015	< 0.00018	< 0.00015	< 0.00016	< 0.00017	< 0.00019
Trichloroethene	21	0.47	mg/kg	< 0.00017	< 0.0002	< 0.00017	< 0.00018	< 0.00019	< 0.00022
Trichlorofluoromethane	NS	NS	mg/kg	< 0.0003	< 0.00035	< 0.00028 J	< 0.00031 J	< 0.00033	< 0.00037
Vinyl chloride	0.9	0.02	mg/kg	< 0.00014	< 0.00017	< 0.00014	< 0.00015	< 0.00016	< 0.00018
Xylene (total)	100	1.6	mg/kg	0.0506	< 0.00016	0.0069	< 0.00014	0.00054 J	< 0.00017
Total TIC, Volatile	NS	NS	mg/kg	0.0083 J	0	0	0.0138 JN	0	0
SVOCs									
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0041	< 0.0046	< 0.0039	< 0.0041	< 0.0043	0.0212 J
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.041	< 0.046	< 0.039	< 0.041	< 0.043 J	< 0.047 J
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.033	< 0.037	< 0.032	< 0.033	< 0.035 J	< 0.038 J
2,4-Dichloropheno	NS	NS	mg/kg	< 0.056	< 0.063	< 0.054	< 0.057	< 0.059 J	< 0.065 J
2,4-Dimethylpheno	NS	NS	mg/kg	< 0.059 J	< 0.066	< 0.057	< 0.059	< 0.062	< 0.068

Table 7. Summary of Post Excavation Analytical Results, Paint Sludge Area 2, Operable Unit 1, Ramapo Paint Sl

Sample ID	375-6.8(b)	375-6.8(b)		PE-P2-20B(9.5-10.0)	PE-P2-21B (3.0-3.5)	PE-P2-22B (9.0-9.5)	PE-P2-23B (5.5-6.0)	PE-P2-1SW (4.0-4.5)	PE-P2-2SW (3.0-3.5)
Sample Date	NYS Restricted	NYS Protection		5/28/2013	6/18/2013	6/19/2013	6/19/2013	4/9/2013	4/9/2013
SVOCs cont.									
2,4-Dinitrophenol	NS	NS	mg/kg	< 0.043 J	< 0.048	< 0.041 J	< 0.043 J	< 0.045	< 0.049
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.015 J	< 0.017	< 0.015 J	< 0.015 J	< 0.016	< 0.018
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.013	< 0.015	< 0.013 J	< 0.013 J	< 0.014 J	< 0.015 J
2-Chloronaphthalene	NS	NS	mg/kg	< 0.011	< 0.012	< 0.01	< 0.011	< 0.011	< 0.012
2-Chlorophenol	NS	NS	mg/kg	< 0.035 J	< 0.04	< 0.034	< 0.036	< 0.037	< 0.041
2-Methylnaphthalene	NS	NS	mg/kg	< 0.02	< 0.022	< 0.019	< 0.02	< 0.021	< 0.022
2-Methylphenol	100	0.33	mg/kg	< 0.04 J	< 0.045	< 0.039	< 0.04	< 0.042	< 0.046
2-Nitroaniline	NS	NS	mg/kg	< 0.015 J	< 0.017 J	< 0.015	< 0.016	< 0.016 J	< 0.018 J
2-Nitrophenol	NS	NS	mg/kg	< 0.037	< 0.042	< 0.036	< 0.037	< 0.039 J	< 0.043 J
3&4-Methylphenol	NS	NS	mg/kg	< 0.044 J	< 0.05	< 0.043	< 0.045	< 0.047	< 0.051
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0089	< 0.01	< 0.0086	< 0.009	< 0.0094	< 0.01
3-Nitroaniline	NS	NS	mg/kg	< 0.014 J	< 0.016	< 0.014	< 0.014	< 0.015	< 0.016
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.043 J	< 0.048	< 0.041 J	< 0.043 J	< 0.045	< 0.049
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.013	< 0.014	< 0.012	< 0.013	< 0.013	< 0.015
4-Chloro-3-methyl phenol	NS	NS	mg/kg	< 0.035	< 0.039	< 0.034	< 0.035	< 0.037	< 0.04
4-Chloroaniline	NS	NS	mg/kg	< 0.011 J	< 0.013	< 0.011	< 0.011	< 0.012	< 0.013
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	< 0.011 J	< 0.012	< 0.01	< 0.011	< 0.011	< 0.012
4-Nitroaniline	NS	NS	mg/kg	< 0.014 J	< 0.015	< 0.013	< 0.014	< 0.014 J	< 0.016 J
4-Nitrophenol	NS	NS	mg/kg	< 0.059 J	< 0.066	< 0.057 J	< 0.06 J	< 0.062	< 0.068
Acenaphthene	100	98	mg/kg	< 0.01	< 0.011	< 0.0098	< 0.01	< 0.011	0.0164 J
Acenaphthylene	100	107	mg/kg	< 0.011	< 0.013	< 0.011	< 0.011	< 0.012	< 0.013
Acetophenone	NS	NS	mg/kg	< 0.0062 J	< 0.0069	< 0.006	< 0.0062	< 0.0065	0.0233 J
Anthracene	100	1,000	mg/kg	< 0.012	< 0.014	< 0.012	< 0.012	< 0.013	< 0.014
Atrazine	NS	NS	mg/kg	< 0.0069 J	< 0.0077	< 0.0067	< 0.007	< 0.0073	< 0.0079
Benzaldehyde	NS	NS	mg/kg	< 0.008 J	< 0.009	< 0.0078 J	< 0.0081 J	< 0.0085	< 0.0093
Benzo(a)anthracene	1	1	mg/kg	< 0.011 J	< 0.013	< 0.011	< 0.012	< 0.012	< 0.013
Benzo(a)pyrene	1	22	mg/kg	< 0.011	< 0.012	< 0.01	< 0.011	< 0.011	< 0.012
Benzo(b)fluoranthene	1	1.7	mg/kg	< 0.012 J	< 0.013	< 0.011	< 0.012	< 0.012 J	< 0.013 J
Benzo(g,h,i)perylene	100	1,000	mg/kg	< 0.013	< 0.015	< 0.013	< 0.013	< 0.014	< 0.015
Benzo(k)fluoranthene	3.9	1.7	mg/kg	< 0.013 J	< 0.015	< 0.013	< 0.013	< 0.014	< 0.015
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.014	< 0.016	< 0.014	< 0.014	< 0.015	< 0.016
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.011 J	< 0.012	< 0.01	< 0.011	< 0.011	< 0.012
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.01	< 0.012	< 0.01	< 0.01	< 0.011	< 0.012
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.031 J	< 0.035	< 0.03	< 0.031	< 0.033	< 0.036
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.02 J	< 0.023	< 0.02	< 0.02	< 0.021	< 0.023
Caprolactam	NS	NS	mg/kg	< 0.011 J	< 0.012	< 0.011	< 0.011	< 0.012 J	< 0.013 J
Carbazole	NS	NS	mg/kg	< 0.016 J	< 0.018	< 0.016	< 0.016	< 0.017	< 0.019
Chrysene	3.9	1	mg/kg	< 0.012	< 0.013	< 0.011	< 0.012	< 0.012	< 0.014
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.012	< 0.013 J	< 0.012	< 0.012	< 0.013	< 0.014
Dibenzofuran	59	210	mg/kg	< 0.01	< 0.012	< 0.01	< 0.01	< 0.011	< 0.012
Diethyl phthalate	NS	NS	mg/kg	< 0.012 J	< 0.013	< 0.012	< 0.012	< 0.013	< 0.014
Dimethyl phthalate	NS	NS	mg/kg	0.0436 J	0.0441 J	< 0.012	< 0.012	< 0.013	< 0.014
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0078 J	< 0.0087	< 0.0075	< 0.0078	< 0.0082	< 0.0089
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.017 J	< 0.019 J	< 0.016 J	< 0.017 J	< 0.018 J	< 0.02 J
Fluoranthene	100	1,000	mg/kg	< 0.015	< 0.017	< 0.015	< 0.016	< 0.016	< 0.018
Fluorene	100	386	mg/kg	< 0.011	< 0.013	< 0.011	< 0.012	< 0.012	< 0.013
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.011	< 0.013	< 0.011	< 0.012	< 0.012	< 0.013
Hexachlorobutadiene	NS	NS	mg/kg	< 0.0097 J	< 0.011	< 0.0094	< 0.0098	< 0.01	< 0.011
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.036 J	< 0.04	< 0.034 J	< 0.036 J	< 0.038	< 0.041
Hexachloroethane	NS	NS	mg/kg	< 0.0097	< 0.011	< 0.0094	< 0.0098	< 0.01	< 0.011
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	< 0.012 J	< 0.014	< 0.012	< 0.012	< 0.013	< 0.014
Isophorone	NS	NS	mg/kg	< 0.0094 J	< 0.011	< 0.0091	< 0.0095	< 0.0099	< 0.011
Naphthalene	100	12	mg/kg	0.0529	< 0.011	0.067	0.197	< 0.01	0.0239 J
Nitrobenzene	NS	NS	mg/kg	< 0.01	< 0.011	< 0.0098	< 0.01	< 0.011	< 0.012
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0085	< 0.0096	< 0.0083	< 0.0086	< 0.009	< 0.0098
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.021	< 0.023	< 0.02	< 0.021	< 0.022	< 0.024
Pentachlorophenol	6.7	0.8	mg/kg	< 0.06 J	< 0.067	< 0.058 J	< 0.06 J	< 0.063	< 0.069
Phenanthrene	100	1,000	mg/kg	< 0.016	< 0.018	< 0.015	< 0.016	< 0.017	< 0.018
Phenol	100	0.33	mg/kg	< 0.037 J	< 0.041	< 0.036	< 0.037	< 0.039	< 0.042
Pyrene	100	1,000	mg/kg	< 0.013	< 0.015	< 0.013	< 0.014	< 0.014	< 0.015
Total TIC, Semi-Volatile	NS	NS	mg/kg	0.67 JN	3.59 JN	0.96 JN	0.15 JN	0	0

Table 7. Summary of Post Excavation Analytical Results, Paint Sludge Area 2, Operable Unit 1, Ramapo Paint Sl

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P2-20B(9.5-10.0) 5/28/2013	PE-P2-21B (3.0-3.5) 6/18/2013	PE-P2-22B (9.0-9.5) 6/19/2013	PE-P2-23B (5.5-6.0) 6/19/2013	PE-P2-1SW (4.0-4.5) 4/9/2013	PE-P2-2SW (3.0-3.5) 4/9/2013
PCBs									
Aroclor 1016	NS	NS	mg/kg	< 0.0096	< 0.01	< 0.0094	< 0.0094	< 0.0094 J	< 0.011 J
Aroclor 1221	NS	NS	mg/kg	< 0.022	< 0.024	< 0.022	< 0.022	< 0.022 J	< 0.025 J
Aroclor 1232	NS	NS	mg/kg	< 0.019	< 0.02	< 0.018	< 0.018	< 0.018 J	< 0.021 J
Aroclor 1242	NS	NS	mg/kg	< 0.012	< 0.013	< 0.011	< 0.011	< 0.012	< 0.013
Aroclor 1248	NS	NS	mg/kg	< 0.011	< 0.012	< 0.011	< 0.011	< 0.011	< 0.013
Aroclor 1254	NS	NS	mg/kg	< 0.017	< 0.019	< 0.017	< 0.017	< 0.017	< 0.02
Aroclor 1260	NS	NS	mg/kg	< 0.012	< 0.013	0.0651	< 0.012	< 0.012	< 0.014
Aroclor 1262	NS	NS	mg/kg	< 0.012	< 0.013	< 0.011	< 0.011	NA	NA
Aroclor 1268	NS	NS	mg/kg	< 0.011	< 0.012	< 0.011	< 0.011	NA	NA
Metals									
Aluminum	NS	NS	mg/kg	8570	16000	8700	7750	12600 J	7240 J
Antimony	NS	NS	mg/kg	< 0.26 J	0.28 B	0.43 B	1.3 B	0.16 J	< 0.19 J
Arsenic	16	16	mg/kg	4.4	3.8	5.2	2.5	5.7	2.8
Barium	400	820	mg/kg	33.5	42	34	41.8	62.4	37.4
Beryllium	72	47	mg/kg	0.64	0.65	0.45	0.4	0.9	0.88
Cadmium	4.3	7.5	mg/kg	< 0.077	0.15 B	0.2 B	0.15 B	0.25 B	0.1 B
Calcium	NS	NS	mg/kg	910 J	940	2600	1700	1350 J	3120 J
Chromium	NS	NS	mg/kg	17	26.7	16.9	17.6	22.4	14
Cobalt	NS	NS	mg/kg	8.1	9.6	7.7	6.4	9 J	7.1 J
Copper	270	1,720	mg/kg	17.6	8.6	16.1	11.4	19	17.2
Iron	NS	NS	mg/kg	21600 J	24800	20400	17000	24900 J	17100 J
Lead	400	450	mg/kg	9.8	5.5	4.7	4.8	11.1	3.9
Magnesium	NS	NS	mg/kg	3360 J	3000	4540	2520	3580 J	2840 J
Manganese	2,000	2,000	mg/kg	630	616	658	543	812 J	385 J
Mercury	0.81	0.73	mg/kg	0.0096 B	0.026 B	0.0053 B	0.02 B	0.021 B	< 0.018
Nickel	310	130	mg/kg	17.9	15.7	17.5	16.1	17.6	10.3
Potassium	NS	NS	mg/kg	779 B	476 B	855 B	680 B	938 J	1230 J
Selenium	180	4	mg/kg	< 0.28	0.84 B	0.42 B	0.57 B	< 0.26	< 0.31
Silver	180	8.3	mg/kg	0.28 B	0.96	0.48 B	0.56	< 0.069	< 0.081
Sodium	NS	NS	mg/kg	47.9 B	98.4 B	161 B	92.8 B	108 B	249 B
Thallium	NS	NS	mg/kg	0.38 B	< 0.34	< 0.31	< 0.31	< 0.24	< 0.28
Vanadium	NS	NS	mg/kg	21.1	43.5	30.5	29.7	41	24.3
Zinc	10,000	2,480	mg/kg	42.8 J	46	38	101	40.5	22.6
Other									
Solids, Percent	NS	NS	%	89.3	82.5	90.7	92.5	89.6	78.9

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater

Table 7. Summary of Post Excavation Analytical Results, Paint Sludge Area 2, Operable Unit 1, Ramapo Paint Sl

Sample ID	375-6.8(b)	375-6.8(b)		PE-P2-3SW (2.5-3.0)	PE-P2-4SW (3.0-3.5)	PE-P2-5SW (2.5-3.0)	PE-P2-6SW(3.0-3.5)	PE-P2-7SW(5.0-5.5)	PE-P2-8SW(3.5-4.0)
Sample Date	NYS Restricted	NYS Protection		4/9/2013	4/9/2013	4/10/2013	4/16/2013	4/18/2013	4/18/2013
VOCs									
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00012	< 0.00012	< 0.00012	< 0.0001	< 0.00012	< 0.00013
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00014	< 0.00015	< 0.00015	< 0.00013	< 0.00015	< 0.00016
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00019	< 0.0002	< 0.0002	< 0.00017	< 0.0002	< 0.00021
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00015	< 0.00015	< 0.00016	< 0.00013	< 0.00016	< 0.00017
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00028	< 0.00029	< 0.00029	< 0.00025	< 0.00029	< 0.00031
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00015	< 0.00016	< 0.00016	< 0.00013	< 0.00016	< 0.00017
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.00098 J	< 0.001	< 0.001	< 0.00085	< 0.001	< 0.0011
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00014	< 0.00014	< 0.00014	< 0.00012	< 0.00014	< 0.00015
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.00021	< 0.00021	< 0.00021	< 0.00018	< 0.00021	< 0.00023
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00015	< 0.00015	< 0.00015	< 0.00013	< 0.00015	< 0.00016
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00017	< 0.00017	< 0.00017	< 0.00015	< 0.00017	< 0.00019
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.0002	< 0.00021	< 0.00021	< 0.00018	< 0.00021	< 0.00023
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00019	< 0.0002	< 0.0002	< 0.00017	< 0.0002	< 0.00021
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0026	< 0.0027	< 0.0027	< 0.0023	< 0.0027	< 0.0029
2-Hexanone	NS	NS	mg/kg	< 0.00068	< 0.0007	< 0.0007	< 0.0006	< 0.0007	< 0.00075
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.00082	< 0.00084	< 0.00085	< 0.00072	< 0.00085	< 0.00091
Acetone	100	0.05	mg/kg	< 0.0019	< 0.0019	< 0.0019	< 0.0016	< 0.0019	< 0.002
Benzene	4.8	0.06	mg/kg	< 0.00013	< 0.00013	< 0.00013	< 0.00011	< 0.00013	< 0.00014
Bromodichloromethane	NS	NS	mg/kg	< 0.00012	< 0.00012	< 0.00012	< 0.0001	< 0.00012	< 0.00013
Bromoform	NS	NS	mg/kg	< 0.00017	< 0.00017	< 0.00017	< 0.00014	< 0.00017	< 0.00018
Bromomethane	NS	NS	mg/kg	< 0.0003	< 0.00031	< 0.00031	< 0.00026	< 0.00031 J	< 0.00033
Carbon disulfide	NS	NS	mg/kg	< 0.00013	< 0.00013	< 0.00013	< 0.00011	< 0.00013	< 0.00014
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00015	< 0.00015	< 0.00015	< 0.00013	< 0.00015 J	< 0.00016
Chlorobenzene	100	1.1	mg/kg	< 0.00012	< 0.00012	< 0.00012	< 0.0001	< 0.00012	< 0.00013
Chloroethane	NS	NS	mg/kg	< 0.00025	< 0.00026	< 0.00026	< 0.00022	< 0.00026	< 0.00027
Chloroform	49	0.37	mg/kg	< 0.000091	< 0.000093	< 0.000094	< 0.000079	< 0.000093	< 0.0001
Chloromethane	NS	NS	mg/kg	< 0.0002 J	< 0.00021	< 0.00021	< 0.00018	< 0.00021 J	< 0.00022
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.0002	< 0.00021	< 0.00021	< 0.00018	< 0.00021	< 0.00022
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00015	< 0.00016	< 0.00016	< 0.00013	< 0.00016	< 0.00017
Cyclohexane	NS	NS	mg/kg	< 0.00014	< 0.00014	< 0.00014	< 0.00012	< 0.00014 J	< 0.00015
Dibromochloromethane	NS	NS	mg/kg	< 0.00018	< 0.00018	< 0.00019	< 0.00016	< 0.00019	< 0.0002
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00025	< 0.00026	< 0.00026	< 0.00022	< 0.00026 J	< 0.00028
Ethylbenzene	41	1	mg/kg	0.00031 J	< 0.0003	< 0.0003	0.00043 J	< 0.0003	< 0.00032
Freon 113	NS	NS	mg/kg	< 0.00047	< 0.00048	< 0.00049	< 0.00041	< 0.00049 J	< 0.00052
Isopropylbenzene	NS	NS	mg/kg	< 0.000081	< 0.000083	< 0.000084	< 0.000071	< 0.000084	< 0.00009
Methyl Acetate	NS	NS	mg/kg	< 0.0028	< 0.0029 J	< 0.0029	< 0.0025	< 0.0029	< 0.0031
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00026	< 0.00026	< 0.00027	< 0.00023	< 0.00027	< 0.00028
Methylcyclohexane	NS	NS	mg/kg	< 0.00019	< 0.00019	< 0.00019	< 0.00016	< 0.00019 J	< 0.0002
Methylene chloride	100	0.05	mg/kg	< 0.0014	< 0.0014	< 0.0057 UB	0.0067	0.0034 J	< 0.0015
Styrene	NS	NS	mg/kg	< 0.0001	< 0.0001	< 0.0001	< 0.000088	< 0.0001	< 0.00011
Tetrachloroethene	19	1.3	mg/kg	< 0.00019	< 0.00019	< 0.00019	< 0.00017	< 0.00019	< 0.00021
Toluene	100	0.7	mg/kg	0.00069 J	< 0.00012	< 0.00012	0.00037 J	< 0.00012	< 0.00013
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00026	< 0.00027	< 0.00027	< 0.00023	< 0.00027	< 0.00029
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00017	< 0.00017	< 0.00018	< 0.00015	< 0.00018	< 0.00019
Trichloroethene	21	0.47	mg/kg	< 0.00019	< 0.0002	< 0.0002	< 0.00017	< 0.0002	< 0.00021
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00033	< 0.00033	< 0.00034	< 0.00029	< 0.00034 J	< 0.00036
Vinyl chloride	0.9	0.02	mg/kg	< 0.00016	< 0.00016	< 0.00016	< 0.00014	< 0.00016	< 0.00017
Xylene (total)	100	1.6	mg/kg	0.0017	0.00064 J	< 0.00016	0.0022	< 0.00016	< 0.00017
Total TIC, Volatile	NS	NS	mg/kg	0	0	0	0	0	0
SVOCs									
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0044	< 0.0042	< 0.0049 J	< 0.004	< 0.0041	< 0.0044
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.044 J	< 0.042 J	< 0.049	< 0.04	< 0.041	< 0.044
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.035 J	< 0.034 J	< 0.04	< 0.033	< 0.034	< 0.036
2,4-Dichloropheno	NS	NS	mg/kg	< 0.061 J	< 0.059 J	< 0.068	< 0.056	< 0.057	< 0.061
2,4-Dimethylpheno	NS	NS	mg/kg	< 0.063	< 0.061	< 0.071	< 0.058	< 0.06	< 0.064

Table 7. Summary of Post Excavation Analytical Results, Paint Sludge Area 2, Operable Unit 1, Ramapo Paint Sl

Sample ID	375-6.8(b)	375-6.8(b)		PE-P2-3SW (2.5-3.0)	PE-P2-4SW (3.0-3.5)	PE-P2-5SW (2.5-3.0)	PE-P2-6SW(3.0-3.5)	PE-P2-7SW(5.0-5.5)	PE-P2-8SW(3.5-4.0)
Sample Date	NYS Restricted	NYS Protection		4/9/2013	4/9/2013	4/10/2013	4/16/2013	4/18/2013	4/18/2013
SVOCs cont.									
2,4-Dinitrophenol	NS	NS	mg/kg	< 0.046	< 0.044	< 0.052	< 0.042	< 0.043	< 0.046
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.016	< 0.016	< 0.019 J	< 0.015 J	< 0.016	< 0.017
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.014 J	< 0.014 J	< 0.016 J	< 0.013	< 0.014	< 0.014
2-Chloronaphthalene	NS	NS	mg/kg	< 0.012	< 0.011	< 0.013 J	< 0.011	< 0.011	< 0.012
2-Chlorophenol	NS	NS	mg/kg	< 0.038	< 0.037	< 0.043	< 0.035	< 0.036	< 0.038
2-Methylnaphthalene	NS	NS	mg/kg	< 0.021	< 0.02	< 0.024 J	< 0.019	0.0255 J	< 0.021
2-Methylphenol	100	0.33	mg/kg	< 0.043	< 0.041	< 0.048	< 0.04	< 0.041	< 0.043
2-Nitroaniline	NS	NS	mg/kg	< 0.017 J	< 0.016 J	< 0.019 J	< 0.015	< 0.016	< 0.017
2-Nitrophenol	NS	NS	mg/kg	< 0.04 J	< 0.039 J	< 0.045	< 0.037	< 0.038	< 0.04
3&4-Methylphenol	NS	NS	mg/kg	< 0.048	< 0.046	< 0.054	< 0.044	< 0.045	< 0.048
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0096	< 0.0092	< 0.011 J	< 0.0088	< 0.0091 J	< 0.0096 J
3-Nitroaniline	NS	NS	mg/kg	< 0.015	< 0.015	< 0.017 J	< 0.014	< 0.014 J	< 0.015 J
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.046	< 0.044	< 0.052 J	< 0.042 J	< 0.043	< 0.046
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.014	< 0.013	< 0.015 J	< 0.013	< 0.013	< 0.014
4-Chloro-3-methyl phenol	NS	NS	mg/kg	< 0.038	< 0.036	< 0.042	< 0.035 J	< 0.036	< 0.038
4-Chloroaniline	NS	NS	mg/kg	< 0.012	< 0.012	< 0.014 J	< 0.011	< 0.011	< 0.012
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	< 0.011	< 0.011	< 0.013 J	< 0.01	< 0.011	< 0.011
4-Nitroaniline	NS	NS	mg/kg	< 0.015 J	< 0.014 J	< 0.017 J	< 0.014	< 0.014 J	< 0.015 J
4-Nitrophenol	NS	NS	mg/kg	< 0.064	< 0.061	< 0.072	< 0.059	< 0.06 J	< 0.064 J
Acenaphthene	100	98	mg/kg	< 0.011	< 0.011	< 0.012 J	< 0.01	< 0.01	< 0.011
Acenaphthylene	100	107	mg/kg	< 0.012	< 0.012	< 0.014 J	< 0.011	< 0.011	< 0.012
Acetophenone	NS	NS	mg/kg	< 0.0066	< 0.0064	< 0.0075 J	< 0.0061	< 0.0063	< 0.0067
Anthracene	100	1,000	mg/kg	< 0.013	< 0.013	< 0.015 J	< 0.012	< 0.012	< 0.013
Atrazine	NS	NS	mg/kg	< 0.0074	< 0.0072	< 0.0084 J	< 0.0068	< 0.007	< 0.0074
Benzaldehyde	NS	NS	mg/kg	< 0.0087	< 0.0084	< 0.0098 J	< 0.008	< 0.0082	< 0.0087
Benzo(a)anthracene	1	1	mg/kg	< 0.012	< 0.012	< 0.014 J	< 0.011	< 0.012	< 0.012
Benzo(a)pyrene	1	22	mg/kg	< 0.012	< 0.011	< 0.013 J	< 0.011	< 0.011	< 0.012
Benzo(b)fluoranthene	1	1.7	mg/kg	< 0.013 J	< 0.012 J	< 0.014 J	< 0.012	< 0.012	< 0.013
Benzo(g,h,i)perylene	100	1,000	mg/kg	< 0.014	< 0.014	< 0.016 J	< 0.013	< 0.013	< 0.014
Benzo(k)fluoranthene	3.9	1.7	mg/kg	< 0.014	< 0.014	< 0.016 J	< 0.013	< 0.013	< 0.014
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.015	< 0.015	< 0.017 J	< 0.014	< 0.014	< 0.015
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.011	< 0.011	< 0.013 J	< 0.01	< 0.011	< 0.011
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.011	< 0.011	< 0.013 J	< 0.01	< 0.011	< 0.011
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.033	< 0.032	< 0.038 J	< 0.031	< 0.031 J	< 0.033 J
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.022	< 0.021	< 0.025 J	< 0.02	< 0.021 J	< 0.022 J
Caprolactam	NS	NS	mg/kg	< 0.012 J	< 0.011 J	< 0.013 J	< 0.011	< 0.011	< 0.012
Carbazole	NS	NS	mg/kg	< 0.017	< 0.017	< 0.02 J	< 0.016	< 0.017	< 0.018
Chrysene	3.9	1	mg/kg	< 0.013	< 0.012	< 0.014 J	< 0.012	< 0.012	< 0.013
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.013	< 0.012	< 0.014 J	< 0.012	< 0.012	< 0.013
Dibenzofuran	59	210	mg/kg	< 0.011	< 0.011	< 0.013 J	< 0.01	< 0.011	< 0.011
Diethyl phthalate	NS	NS	mg/kg	< 0.013	< 0.012	< 0.014 J	< 0.012	< 0.012	< 0.013
Dimethyl phthalate	NS	NS	mg/kg	< 0.013	< 0.013	< 0.015 J	< 0.012	0.0589 J	< 0.013
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0084	< 0.0081	< 0.0094 J	< 0.0077	< 0.0079	< 0.0084
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.018 J	< 0.018 J	< 0.021 J	< 0.017 J	< 0.017	< 0.018
Fluoranthene	100	1,000	mg/kg	< 0.017	< 0.016	< 0.019 J	< 0.015	< 0.016	< 0.017
Fluorene	100	386	mg/kg	< 0.012	< 0.012	< 0.014 J	< 0.011	< 0.012	< 0.012
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.012	< 0.012	< 0.014 J	< 0.011	< 0.012	< 0.012
Hexachlorobutadiene	NS	NS	mg/kg	< 0.01	< 0.01	< 0.012 J	< 0.0096	< 0.0099	< 0.011
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.038	< 0.037	< 0.043 J	< 0.035	< 0.036	< 0.039
Hexachloroethane	NS	NS	mg/kg	< 0.01	< 0.01	< 0.012 J	< 0.0096	< 0.0099	< 0.011
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	< 0.013	< 0.013	< 0.015 J	< 0.012	< 0.012	< 0.013
Isophorone	NS	NS	mg/kg	< 0.01	< 0.0098	< 0.011 J	< 0.0093	< 0.0096	< 0.01
Naphthalene	100	12	mg/kg	< 0.01	< 0.0099	< 0.012 J	< 0.0095	0.0971	< 0.01
Nitrobenzene	NS	NS	mg/kg	< 0.011	< 0.011	< 0.012 J	< 0.01	< 0.01	< 0.011
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0092	< 0.0089	< 0.01 J	< 0.0085	< 0.0087	< 0.0092
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.023	< 0.022	< 0.025 J	< 0.021	< 0.021	< 0.023
Pentachlorophenol	6.7	0.8	mg/kg	< 0.064	< 0.062	< 0.073 J	< 0.059	< 0.061	< 0.065
Phenanthrene	100	1,000	mg/kg	< 0.017	< 0.017	< 0.019 J	< 0.016	< 0.016	< 0.017
Phenol	100	0.33	mg/kg	< 0.04	< 0.038	< 0.045	< 0.036	< 0.037	< 0.04
Pyrene	100	1,000	mg/kg	< 0.014	< 0.014	< 0.016 J	< 0.013	< 0.014	< 0.015
Total TIC, Semi-Volatile	NS	NS	mg/kg	0	0	0	0.47 JN	1.77 JN	1.06 JN

Table 7. Summary of Post Excavation Analytical Results, Paint Sludge Area 2, Operable Unit 1, Ramapo Paint Sl

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P2-3SW (2.5-3.0) 4/9/2013	PE-P2-4SW (3.0-3.5) 4/9/2013	PE-P2-5SW (2.5-3.0) 4/10/2013	PE-P2-6SW(3.0-3.5) 4/16/2013	PE-P2-7SW(5.0-5.5) 4/18/2013	PE-P2-8SW(3.5-4.0) 4/18/2013
PCBs									
Aroclor 1016	NS	NS	mg/kg	< 0.0099 J	< 0.0095 J	< 0.011 J	< 0.0099	< 0.01	< 0.01
Aroclor 1221	NS	NS	mg/kg	< 0.023 J	< 0.022 J	< 0.024 J	< 0.023	< 0.024	< 0.024
Aroclor 1232	NS	NS	mg/kg	< 0.019 J	< 0.018 J	< 0.021 J	< 0.019	< 0.02	< 0.02
Aroclor 1242	NS	NS	mg/kg	< 0.012	< 0.012	< 0.013	< 0.012 J	< 0.013	< 0.013
Aroclor 1248	NS	NS	mg/kg	< 0.012	< 0.011	< 0.012	< 0.012 J	< 0.012	< 0.012
Aroclor 1254	NS	NS	mg/kg	< 0.018	< 0.017	< 0.019	< 0.018 J	< 0.019	< 0.018
Aroclor 1260	NS	NS	mg/kg	< 0.013	< 0.012	< 0.013	< 0.013 J	< 0.013	< 0.013
Aroclor 1262	NS	NS	mg/kg	NA	NA	< 0.013	NA	< 0.013	< 0.013
Aroclor 1268	NS	NS	mg/kg	NA	NA	< 0.012	NA	< 0.012	< 0.012
Metals									
Aluminum	NS	NS	mg/kg	11800 J	13500 J	7170 J	9350	9790	18800
Antimony	NS	NS	mg/kg	< 0.17 J	< 0.16 J	< 0.19	0.45 J	0.4 B	0.39 B
Arsenic	16	16	mg/kg	5.2	4.9	2.6	3.5	3.2	3.8
Barium	400	820	mg/kg	45.4	52.4	45.3	65.2 J	48.3	69.6
Beryllium	72	47	mg/kg	0.88	1.1	0.43	0.29	0.4	0.88
Cadmium	4.3	7.5	mg/kg	0.2 B	0.19 B	< 0.031	< 0.03	< 0.029	0.048 B
Calcium	NS	NS	mg/kg	1260 J	1460 J	2550	2450 J	1840	981
Chromium	NS	NS	mg/kg	25.8	18	11.6	17.6 J	33	22.9
Cobalt	NS	NS	mg/kg	8.9 J	8.2 J	6.9	8 J	6.3	8.8
Copper	270	1,720	mg/kg	22.8	22.6	16.3	20.6	11.5	11
Iron	NS	NS	mg/kg	27000 J	20700 J	15300	17200 J	19000	22400
Lead	400	450	mg/kg	20	13.9	3.1	7.8	4.9	6.4
Magnesium	NS	NS	mg/kg	2880 J	3090 J	2830	3180 J	2690	3080
Manganese	2,000	2,000	mg/kg	497 J	440 J	447	452 J	404	635
Mercury	0.81	0.73	mg/kg	0.055	0.038	< 0.018	< 0.037	< 0.017	0.057
Nickel	310	130	mg/kg	16.6	15.8	9.7	12.8	13	18.5
Potassium	NS	NS	mg/kg	972 J	1070 J	1470	1560	852 B	521 B
Selenium	180	4	mg/kg	< 0.28	< 0.26	< 0.3	< 0.29	< 0.28	< 0.29
Silver	180	8.3	mg/kg	< 0.073	< 0.068	0.13 B	< 0.075	< 0.073	< 0.075
Sodium	NS	NS	mg/kg	103 B	113 B	218 B	254 B	147 B	103 B
Thallium	NS	NS	mg/kg	< 0.25	< 0.24	0.43 B	< 0.26	< 0.25	< 0.26
Vanadium	NS	NS	mg/kg	43.8	31.8	21.2	25.2 J	31.3	37.9
Zinc	10,000	2,480	mg/kg	48.5	54.6	25.6	32.1 J	82.9	53.2
Other									
Solids, Percent	NS	NS	%	86.1	89	77.4	81.4	81.8	82.9

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater

Table 7. Summary of Post Excavation Analytical Results, Paint Sludge Area 2, Operable Unit 1, Ramapo Paint Sl

Sample ID	375-6.8(b)	375-6.8(b)		PE-P2-9SW(3.5-4.0)	PE-P2-10SW (3.5-4.0)	PE-P2-11SW(5.0-5.5)	PE-P2-12SW (2.5-3.0)	PE-P2-13SW (3.0-3.5)	PE-P2-14SW (2.5-3.0)
Sample Date	NYS Restricted	NYS Protection		4/22/2013	4/23/2013	5/7/2013	6/18/2013	6/19/2013	6/19/2013
VOCS									
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00013	< 0.00012 J	< 0.00011 J	< 0.00012	< 0.00011	< 0.00014
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00016	< 0.00016	< 0.00014	< 0.00015	< 0.00014	< 0.00018
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00021	< 0.0002	< 0.00019	< 0.00019	< 0.00018	< 0.00024
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00016	< 0.00016	< 0.00015	< 0.00015	< 0.00014	< 0.00019
1,1-Dichloroethene	100	0.33	mg/kg	< 0.0003	< 0.0003	< 0.00028	< 0.00029	< 0.00026	< 0.00035
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00016	< 0.00016	< 0.00015	< 0.00015	< 0.00014	< 0.00019
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.0011 J	< 0.001	< 0.00095	< 0.00099	< 0.00091 J	< 0.0012 J
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00015	< 0.00015	< 0.00014	< 0.00014	< 0.00013	< 0.00017
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.00022	< 0.00022	< 0.0002	< 0.00021	< 0.00019	< 0.00026
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00016	< 0.00016	< 0.00014	< 0.00015	< 0.00014	< 0.00018
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00018	< 0.00018	< 0.00016	< 0.00017	< 0.00016	< 0.00021
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.00022	< 0.00022	< 0.0002	< 0.00021	< 0.00019	< 0.00026
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00021	< 0.00021	< 0.00019	< 0.0002	< 0.00018	< 0.00024
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0028	< 0.0028	< 0.0026	< 0.0027	< 0.0024	0.169
2-Hexanone	NS	NS	mg/kg	< 0.00074	< 0.00073	< 0.00067	< 0.00069	< 0.00064	< 0.00085
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.00089	< 0.00088	< 0.0008	< 0.00083	< 0.00077	< 0.001
Acetone	100	0.05	mg/kg	< 0.002	< 0.002	< 0.0018	< 0.0019 J	< 0.0017	0.171 J
Benzene	4.8	0.06	mg/kg	< 0.00014	< 0.00014	< 0.00013	< 0.00013	< 0.00012	< 0.00016
Bromodichloromethane	NS	NS	mg/kg	< 0.00012	< 0.00012	< 0.00011	< 0.00012	< 0.00011	< 0.00014
Bromoform	NS	NS	mg/kg	< 0.00018	< 0.00018	< 0.00016	< 0.00017	< 0.00015 J	< 0.00021
Bromomethane	NS	NS	mg/kg	< 0.00032	< 0.00032	< 0.00029	< 0.0003	< 0.00028	< 0.00037
Carbon disulfide	NS	NS	mg/kg	< 0.00014	< 0.00014	< 0.00013	< 0.00013	< 0.00012	< 0.00016
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00016 J	< 0.00016 J	< 0.00014 J	< 0.00015 J	< 0.00014 J	< 0.00018 J
Chlorobenzene	100	1.1	mg/kg	< 0.00013	< 0.00013	< 0.00012	< 0.00012	< 0.00011	< 0.00015
Chloroethane	NS	NS	mg/kg	< 0.00027	< 0.00027	< 0.00024	< 0.00025	< 0.00023	< 0.00031
Chloroform	49	0.37	mg/kg	< 0.000098	< 0.000097	< 0.000088	< 0.000092	< 0.000085	< 0.00011
Chloromethane	NS	NS	mg/kg	< 0.00022	< 0.00022	< 0.0002	< 0.00021	< 0.00019 J	< 0.00025
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00022	< 0.00021	< 0.0002	< 0.0002	< 0.00019	< 0.00025
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00016	< 0.00016	< 0.00015	< 0.00015	< 0.00014	< 0.00019
Cyclohexane	NS	NS	mg/kg	< 0.00015	< 0.00015	< 0.00013	< 0.00014	< 0.00013	< 0.00017
Dibromochloromethane	NS	NS	mg/kg	< 0.00019	< 0.00019	< 0.00018	< 0.00018	< 0.00017	< 0.00022
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00027 J	< 0.00027 J	< 0.00024 J	< 0.00025	< 0.00023	< 0.00031
Ethylbenzene	41	1	mg/kg	< 0.00031	< 0.00031	0.00033 J	< 0.00029	< 0.00027	< 0.00036
Freon 113	NS	NS	mg/kg	< 0.00051 J	< 0.0005 J	< 0.00046 J	< 0.00048	< 0.00044 J	< 0.00059 J
Isopropylbenzene	NS	NS	mg/kg	< 0.000088	< 0.000087	< 0.00008	< 0.000082	< 0.000076	< 0.0001
Methyl Acetate	NS	NS	mg/kg	< 0.0031	< 0.0031	< 0.0028	< 0.0029	< 0.0027	< 0.0035
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00028	< 0.00028	< 0.00025	< 0.00026	< 0.00024	< 0.00032
Methylcyclohexane	NS	NS	mg/kg	< 0.0002	< 0.0002 J	< 0.00018	< 0.00019	< 0.00017	< 0.00023
Methylene chloride	100	0.05	mg/kg	0.0035 J	< 0.0015	0.0073	0.0054 J	0.0024 J	0.0078
Styrene	NS	NS	mg/kg	< 0.00011	< 0.00011	< 0.000098	< 0.0001	< 0.000094	< 0.00013
Tetrachloroethene	19	1.3	mg/kg	< 0.0002	< 0.0002 J	< 0.00018	< 0.00019	< 0.00018	< 0.00023
Toluene	100	0.7	mg/kg	< 0.00012	< 0.00012	0.0012	< 0.00012	0.00028 J	0.00094 J
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00028	< 0.00028	< 0.00025	< 0.00026	< 0.00024	< 0.00032
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00018	< 0.00018	< 0.00017	< 0.00017	< 0.00016	< 0.00021
Trichloroethene	21	0.47	mg/kg	< 0.00021	< 0.0002 J	< 0.00019	< 0.00019	< 0.00018	< 0.00024
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00035 J	< 0.00035 J	< 0.00032 J	< 0.00033	< 0.00031 J	< 0.00041
Vinyl chloride	0.9	0.02	mg/kg	< 0.00017	< 0.00017	< 0.00015	< 0.00016	< 0.00015	< 0.0002
Xylene (total)	100	1.6	mg/kg	< 0.00016	< 0.00016	0.002	< 0.00015	< 0.00014	< 0.00019
Total TIC, Volatile	NS	NS	mg/kg	0	0	0	0.0125 JN	0.049 JN	0
SVOCs									
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0047	< 0.0038	< 0.0042	< 0.0047	< 0.0039	< 0.0048
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.047	< 0.038	< 0.042 J	< 0.047	< 0.039	< 0.048
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.038	< 0.031	< 0.034 J	< 0.038	< 0.032	< 0.039
2,4-Dichloropheno	NS	NS	mg/kg	< 0.065	< 0.053	< 0.059	< 0.065	< 0.055	< 0.066
2,4-Dimethylpheno	NS	NS	mg/kg	< 0.067	< 0.055	< 0.061 J	< 0.068	< 0.057	< 0.069

Table 7. Summary of Post Excavation Analytical Results, Paint Sludge Area 2, Operable Unit 1, Ramapo Paint Sl

Sample ID	375-6.8(b)	375-6.8(b)		PE-P2-9SW(3.5-4.0)	PE-P2-10SW (3.5-4.0)	PE-P2-11SW(5.0-5.5)	PE-P2-12SW (2.5-3.0)	PE-P2-13SW (3.0-3.5)	PE-P2-14SW (2.5-3.0)
Sample Date	NYS Restricted	NYS Protection		4/22/2013	4/23/2013	5/7/2013	6/18/2013	6/19/2013	6/19/2013
SVOCs cont.									
2,4-Dinitrophenol	NS	NS	mg/kg	< 0.049 J	< 0.04	< 0.044 J	< 0.049	< 0.041 J	< 0.05 J
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.018 J	< 0.014 J	< 0.016	< 0.018	< 0.015 J	< 0.018 J
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.015	< 0.012 J	< 0.014 J	< 0.015	< 0.013 J	< 0.016 J
2-Chloronaphthalene	NS	NS	mg/kg	< 0.012	< 0.01	< 0.011	< 0.013	< 0.011	< 0.013
2-Chlorophenol	NS	NS	mg/kg	< 0.041	< 0.033	< 0.037	< 0.041	< 0.034	< 0.041
2-Methylnaphthalene	NS	NS	mg/kg	< 0.022	< 0.018	< 0.02	< 0.023	< 0.019	< 0.023
2-Methylphenol	100	0.33	mg/kg	< 0.046	< 0.037	< 0.041	< 0.046	< 0.039	< 0.047
2-Nitroaniline	NS	NS	mg/kg	< 0.018	< 0.014	< 0.016 J	< 0.018 J	< 0.015	< 0.018
2-Nitrophenol	NS	NS	mg/kg	< 0.043 J	< 0.035	< 0.039	< 0.043	< 0.036 J	< 0.043 J
3&4-Methylphenol	NS	NS	mg/kg	< 0.051	< 0.042	< 0.046 J	< 0.051	< 0.043	< 0.052
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.01	< 0.0083	< 0.0092 J	< 0.01	< 0.0086	< 0.01
3-Nitroaniline	NS	NS	mg/kg	< 0.016	< 0.013	< 0.015	< 0.016	< 0.014	< 0.016
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.049 J	< 0.04 J	< 0.044 J	< 0.049	< 0.041 J	< 0.05 J
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.015	< 0.012	< 0.013	< 0.015	< 0.012	< 0.015
4-Chloro-3-methyl phenol	NS	NS	mg/kg	< 0.04 J	< 0.033	< 0.036 J	< 0.04	< 0.034	< 0.041
4-Chloroaniline	NS	NS	mg/kg	< 0.013	< 0.01	< 0.012 J	< 0.013	< 0.011	< 0.013
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	< 0.012	< 0.0098	< 0.011	< 0.012	< 0.01	< 0.012
4-Nitroaniline	NS	NS	mg/kg	< 0.016	< 0.013	< 0.014	< 0.016	< 0.013	< 0.016
4-Nitrophenol	NS	NS	mg/kg	< 0.068	< 0.055	< 0.061 J	< 0.068	< 0.057 J	< 0.069 J
Acenaphthene	100	98	mg/kg	< 0.012	< 0.0095	< 0.011	< 0.012	< 0.0098	< 0.012
Acenaphthylene	100	107	mg/kg	< 0.013	< 0.01	< 0.012	< 0.013	< 0.011	< 0.013
Acetophenone	NS	NS	mg/kg	< 0.0071	< 0.0058	< 0.0064	< 0.0071	< 0.006	< 0.0072
Anthracene	100	1,000	mg/kg	< 0.014	< 0.011	< 0.013	< 0.014	< 0.012	< 0.014
Atrazine	NS	NS	mg/kg	< 0.0079	< 0.0064	< 0.0072 J	< 0.0079	< 0.0067	< 0.0081
Benzaldehyde	NS	NS	mg/kg	< 0.0092	< 0.0075	< 0.0084	< 0.0093	< 0.0078 J	< 0.0094 J
Benzo(a)anthracene	1	1	mg/kg	< 0.013	< 0.011	< 0.012	< 0.013	< 0.011	< 0.013
Benzo(a)pyrene	1	22	mg/kg	< 0.012	< 0.01	< 0.011	< 0.012	< 0.01	< 0.012
Benzo(b)fluoranthene	1	1.7	mg/kg	< 0.013	< 0.011	< 0.012	< 0.013	< 0.011	< 0.014
Benzo(g,h,i)perylene	100	1,000	mg/kg	< 0.015	< 0.012	< 0.014	< 0.015	< 0.013	< 0.015
Benzo(k)fluoranthene	3.9	1.7	mg/kg	< 0.015	< 0.012	< 0.014 J	< 0.015	< 0.013	< 0.015
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.016	< 0.013	< 0.015	< 0.016	< 0.014	< 0.017
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.012	< 0.0098	< 0.011	< 0.012	< 0.01	< 0.012
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.012	< 0.0097	< 0.011	< 0.012	< 0.01	< 0.012
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.035	< 0.029	< 0.032 J	< 0.036	< 0.03	< 0.036
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.023	< 0.019	< 0.021 J	< 0.023	< 0.02	< 0.024
Caprolactam	NS	NS	mg/kg	< 0.013	< 0.01	< 0.011	< 0.013	< 0.011	< 0.013
Carbazole	NS	NS	mg/kg	< 0.019	< 0.015	< 0.017	< 0.019	< 0.016	< 0.019
Chrysene	3.9	1	mg/kg	< 0.014	< 0.011	< 0.012	< 0.014	< 0.011	< 0.014
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.014	< 0.011	< 0.012	< 0.014 J	< 0.012	< 0.014
Dibenzofuran	59	210	mg/kg	< 0.012	< 0.0097	< 0.011	< 0.012	< 0.01	< 0.012
Diethyl phthalate	NS	NS	mg/kg	< 0.014	< 0.011	< 0.012	< 0.014	< 0.012	< 0.014
Dimethyl phthalate	NS	NS	mg/kg	< 0.014	< 0.012	< 0.013	< 0.014	< 0.012	< 0.014
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0089	< 0.0073	< 0.0081 J	< 0.009	< 0.0075	< 0.0091
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.02 J	< 0.016 J	< 0.018 J	< 0.02 J	< 0.017 J	< 0.02 J
Fluoranthene	100	1,000	mg/kg	< 0.018	< 0.014	< 0.016	< 0.018	< 0.015	0.0229 J
Fluorene	100	386	mg/kg	< 0.013	< 0.011	< 0.012	< 0.013	< 0.011	< 0.013
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.013	< 0.011	< 0.012	< 0.013	< 0.011	< 0.013
Hexachlorobutadiene	NS	NS	mg/kg	< 0.011	< 0.0091	< 0.01	< 0.011	< 0.0094	< 0.011
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.041	< 0.033	< 0.037 J	< 0.041	< 0.035 J	< 0.042 J
Hexachloroethane	NS	NS	mg/kg	< 0.011	< 0.0091	< 0.01	< 0.011	< 0.0094	< 0.011
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	< 0.014	< 0.011	< 0.013	< 0.014	< 0.012	< 0.014
Isophorone	NS	NS	mg/kg	< 0.011	< 0.0088	< 0.0098	< 0.011	< 0.0091	< 0.011
Naphthalene	100	12	mg/kg	< 0.011	< 0.0089	< 0.0099	< 0.011	< 0.0093	< 0.011
Nitrobenzene	NS	NS	mg/kg	< 0.012	< 0.0094	< 0.011	< 0.012	< 0.0098	< 0.012
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0098	< 0.008	< 0.0089	< 0.0098	< 0.0083	< 0.01
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.024	< 0.02	< 0.022	< 0.024	< 0.02	< 0.024
Pentachlorophenol	6.7	0.8	mg/kg	< 0.069	< 0.056 J	< 0.062 J	< 0.069	< 0.058 J	< 0.07 J
Phenanthrene	100	1,000	mg/kg	< 0.018	< 0.015	< 0.017	< 0.018	< 0.015	< 0.019
Phenol	100	0.33	mg/kg	< 0.042	< 0.034	< 0.038	< 0.042	< 0.036	< 0.043
Pyrene	100	1,000	mg/kg	< 0.015	< 0.013	< 0.014	< 0.015	< 0.013	0.0223 J
Total TIC, Semi-Volatile	NS	NS	mg/kg	0.24 JN	0.24 JN	0	1.04 JN	0	2.21 JN

Table 7. Summary of Post Excavation Analytical Results, Paint Sludge Area 2, Operable Unit 1, Ramapo Paint Sl

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P2-9SW(3.5-4.0) 4/22/2013	PE-P2-10SW (3.5-4.0) 4/23/2013	PE-P2-11SW(5.0-5.5) 5/7/2013	PE-P2-12SW (2.5-3.0) 6/18/2013	PE-P2-13SW (3.0-3.5) 6/19/2013	PE-P2-14SW (2.5-3.0) 6/19/2013
PCBs									
Aroclor 1016	NS	NS	mg/kg	< 0.011	< 0.0095	< 0.0089	< 0.011	< 0.0092	< 0.011
Aroclor 1221	NS	NS	mg/kg	< 0.025	< 0.022	< 0.021	< 0.024	< 0.021	< 0.026
Aroclor 1232	NS	NS	mg/kg	< 0.021	< 0.019	< 0.017	< 0.021	< 0.018	< 0.022
Aroclor 1242	NS	NS	mg/kg	< 0.013 J	< 0.012	< 0.011	< 0.013	< 0.011	< 0.014
Aroclor 1248	NS	NS	mg/kg	< 0.013 J	< 0.011	< 0.01	< 0.012	< 0.011	< 0.013
Aroclor 1254	NS	NS	mg/kg	< 0.019 J	< 0.017	< 0.016	< 0.019	< 0.017	< 0.02
Aroclor 1260	NS	NS	mg/kg	< 0.014 J	< 0.012	< 0.011	< 0.013	< 0.012	< 0.014
Aroclor 1262	NS	NS	mg/kg	< 0.013 J	< 0.012	< 0.011	< 0.013	< 0.011	< 0.014
Aroclor 1268	NS	NS	mg/kg	< 0.012 J	< 0.011	< 0.01	< 0.012	< 0.01	< 0.013
Metals									
Aluminum	NS	NS	mg/kg	19100	11900	15000	16300	14100	11000
Antimony	NS	NS	mg/kg	< 0.19	0.64 B	0.53 B	0.4 B	0.38 B	< 0.32
Arsenic	16	16	mg/kg	3.9	2.6	3.9	3.1	2.9	3.9
Barium	400	820	mg/kg	68.4	43.7	60	58.7	66.8	55
Beryllium	72	47	mg/kg	0.82	0.68	0.93	0.84	0.82	0.6
Cadmium	4.3	7.5	mg/kg	< 0.65 UB	0.056 B	0.07 B	0.14 B	0.16 B	< 0.095
Calcium	NS	NS	mg/kg	1750	1330	1700	1090	2020	2780
Chromium	NS	NS	mg/kg	24.8	22.5	23.5	24	19.9	18.6
Cobalt	NS	NS	mg/kg	10	6.8	8.7	8.6	8.3	8.3
Copper	270	1,720	mg/kg	R	13.9	24.9	8.2	10.6	20.5
Iron	NS	NS	mg/kg	24600	20200	26000	21200	23600	20500
Lead	400	450	mg/kg	7.5	11.8	8.1	6.9	7.1	11.7
Magnesium	NS	NS	mg/kg	3070	2920	4040	2800	4010	3240
Manganese	2,000	2,000	mg/kg	742	418	480	676	587	438
Mercury	0.81	0.73	mg/kg	< 0.018	0.039	0.028 B	0.027 B	0.027 B	0.012 B
Nickel	310	130	mg/kg	16	16.2	19.1	15.2	14.3	14.6
Potassium	NS	NS	mg/kg	702 B	525 B	1330	440 B	950 B	1440
Selenium	180	4	mg/kg	0.39 J	1.3 B	1.8 B	1 B	0.4 B	< 0.35
Silver	180	8.3	mg/kg	1.2	0.18 B	0.33 B	0.81	0.66	0.63 B
Sodium	NS	NS	mg/kg	< 1300 UB	113 B	137 B	98.3 B	278 B	253 B
Thallium	NS	NS	mg/kg	< 0.28	< 0.25	0.31 B	< 0.37	< 0.33	< 0.39
Vanadium	NS	NS	mg/kg	40.9	37.8	36.7	36	38.5	28.6
Zinc	10,000	2,480	mg/kg	46.9	37.8	41.8	45.1	49.1	39.4
Other									
Solids, Percent	NS	NS	%	78.1	88.7	88.1	80.5	88.7	78

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater

Table 7. Summary of Post Excavation Analytical Results, Paint Sludge Area 2, Operable Unit 1, Ramapo Paint Sl

Sample ID	375-6.8(b)	375-6.8(b)		PE-P2-14SW(2.5-3.0)A	PE-P2-EAST-1B (8.5-9.0)	PE-P2-EAST-2B (8.5-9.0)	PE-P2-EAST-1SW (5.0-5.5)	PE-P2-EAST-2SW (4.5-5.0)	PE-P2-EAST-3SW(4.5-5.0)
Sample Date	NYS Restricted	NYS Protection		7/19/2013	5/15/2013	5/16/2013	5/15/2013	5/16/2013	5/17/2013
VOCs									
1,1,1-Trichloroethane	100	0.68	mg/kg	NA	< 0.00016	< 0.00012	< 0.00014	< 0.00012	< 0.00012
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	NA	< 0.0002	< 0.00015	< 0.00017	< 0.00014	< 0.00015
1,1,2-Trichloroethane	NS	NS	mg/kg	NA	< 0.00026	< 0.0002	< 0.00022	< 0.00019	< 0.0002
1,1-Dichloroethane	26	0.27	mg/kg	NA	< 0.0002	< 0.00016	< 0.00017	< 0.00015	< 0.00016
1,1-Dichloroethene	100	0.33	mg/kg	NA	< 0.00038	< 0.0003	< 0.00033	< 0.00028	< 0.0003
1,2,4-Trichlorobenzene	NS	NS	mg/kg	NA	< 0.00021	< 0.00016	< 0.00018	< 0.00015	< 0.00016
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	NA	< 0.0013	< 0.001	< 0.0011	< 0.00097	< 0.001
1,2-Dibromoethane	NS	NS	mg/kg	NA	< 0.00019	< 0.00015	< 0.00016	< 0.00014	< 0.00015
1,2-Dichlorobenzene	100	1.1	mg/kg	NA	< 0.00028	< 0.00022	< 0.00024	< 0.00021	< 0.00022
1,2-Dichloroethane	3.1	0.02	mg/kg	NA	< 0.0002	< 0.00016	< 0.00017	< 0.00015	< 0.00016 J
1,2-Dichloropropane	NS	NS	mg/kg	NA	< 0.00023	< 0.00018	< 0.0002	< 0.00017	< 0.00018
1,3-Dichlorobenzene	49	2.4	mg/kg	NA	< 0.00028	< 0.00022	< 0.00024	< 0.0002	< 0.00022
1,4-Dichlorobenzene	13	1.8	mg/kg	NA	< 0.00026	< 0.00021	< 0.00022	< 0.00019	< 0.00021
2-Butanone (MEK)	100	0.12	mg/kg	NA	< 0.0036	< 0.0028	< 0.0031	< 0.0026	< 0.0028
2-Hexanone	NS	NS	mg/kg	NA	< 0.00093	< 0.00073	< 0.00079	< 0.00068	< 0.00073
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	NA	< 0.0011	0.003 J	< 0.00096	< 0.00082	< 0.00088
Acetone	100	0.05	mg/kg	< 0.0019	< 0.0025	0.0091 J	< 0.0022	< 0.0018	< 0.002
Benzene	4.8	0.06	mg/kg	NA	< 0.00018	< 0.00014	< 0.00015	< 0.00013	< 0.00014
Bromodichloromethane	NS	NS	mg/kg	NA	< 0.00016	< 0.00012	< 0.00013	< 0.00011	< 0.00012
Bromoform	NS	NS	mg/kg	NA	< 0.00022	< 0.00018	< 0.00019	< 0.00017	< 0.00018
Bromomethane	NS	NS	mg/kg	NA	< 0.00041	< 0.00032	< 0.00035	< 0.0003	< 0.00032
Carbon disulfide	NS	NS	mg/kg	NA	< 0.00017	< 0.00014	< 0.00015	< 0.00013	< 0.00014
Carbon tetrachloride	2.4	0.76	mg/kg	NA	< 0.0002	< 0.00016 J	< 0.00017	< 0.00015 J	< 0.00016
Chlorobenzene	100	1.1	mg/kg	NA	< 0.00016	< 0.00013	< 0.00014	< 0.00012	< 0.00013
Chloroethane	NS	NS	mg/kg	NA	< 0.00034	< 0.00027	< 0.00029	< 0.00025	< 0.00027
Chloroform	49	0.37	mg/kg	NA	< 0.00012	< 0.000097	< 0.00011	< 0.00009	< 0.000097
Chloromethane	NS	NS	mg/kg	NA	< 0.00028	< 0.00022	< 0.00024	< 0.0002	< 0.00022
cis-1,2-Dichloroethene	100	0.25	mg/kg	NA	< 0.00027	< 0.00021	< 0.00023	< 0.0002	< 0.00021
cis-1,3-Dichloropropene	NS	NS	mg/kg	NA	< 0.00021	< 0.00016	< 0.00018	< 0.00015	< 0.00016
Cyclohexane	NS	NS	mg/kg	NA	< 0.00018	< 0.00015	< 0.00016	< 0.00014	< 0.00015
Dibromochloromethane	NS	NS	mg/kg	NA	< 0.00024	< 0.00019	< 0.00021	< 0.00018	< 0.00019
Dichlorodifluoromethane	NS	NS	mg/kg	NA	< 0.00034	< 0.00027	< 0.00029	< 0.00025	< 0.00027
Ethylbenzene	41	1	mg/kg	NA	< 0.00039	0.0042	< 0.00034	0.0012	< 0.00031
Freon 113	NS	NS	mg/kg	NA	< 0.00064	< 0.0005	< 0.00055	< 0.00047	< 0.0005
Isopropylbenzene	NS	NS	mg/kg	NA	< 0.00011	< 0.000087	< 0.000095	< 0.000081	< 0.000087
Methyl Acetate	NS	NS	mg/kg	NA	< 0.0039	< 0.0031	< 0.0033	< 0.0028	< 0.0031 J
Methyl Tert Butyl Ether	100	0.93	mg/kg	NA	< 0.00035	< 0.00028	< 0.0003	< 0.00026	< 0.00028
Methylcyclohexane	NS	NS	mg/kg	NA	< 0.00025	< 0.0002	< 0.00022	< 0.00018	< 0.0002
Methylene chloride	100	0.05	mg/kg	NA	0.0043 J	0.0041 J	0.0041 J	0.0042 J	0.0022 J
Styrene	NS	NS	mg/kg	NA	< 0.00014	< 0.00011	< 0.00012	< 0.0001	< 0.00011
Tetrachloroethene	19	1.3	mg/kg	NA	< 0.00026	< 0.0002	< 0.00022	< 0.00019	< 0.0002
Toluene	100	0.7	mg/kg	NA	< 0.00016	0.025	0.00051 J	0.0014	< 0.00012
trans-1,2-Dichloroethene	100	0.19	mg/kg	NA	< 0.00035	< 0.00028	< 0.0003	< 0.00026	< 0.00028
trans-1,3-Dichloropropene	NS	NS	mg/kg	NA	< 0.00023	< 0.00018	< 0.0002	< 0.00017	< 0.00018
Trichloroethene	21	0.47	mg/kg	NA	< 0.00026	< 0.0002	< 0.00022	< 0.00019	< 0.0002
Trichlorofluoromethane	NS	NS	mg/kg	NA	< 0.00044	< 0.00035	< 0.00038	< 0.00033	< 0.00035
Vinyl chloride	0.9	0.02	mg/kg	NA	< 0.00021	< 0.00017	< 0.00018	< 0.00016	< 0.00017
Xylene (total)	100	1.6	mg/kg	NA	< 0.00021	0.0308	0.0015	0.0086	< 0.00016
Total TIC, Volatile	NS	NS	mg/kg	0	0.0084 J	0.0081 JN	0.0481 JN	0	0.0244 JN
SVOCs									
1,1'-Biphenyl	NS	NS	mg/kg	NA	< 0.0046 J	< 0.0037	< 0.01 J	< 0.0045	< 0.0044
2,4,5-Trichlorophenol	NS	NS	mg/kg	NA	< 0.046	< 0.037	< 0.1 J	< 0.045	< 0.044
2,4,6-Trichlorophenol	NS	NS	mg/kg	NA	< 0.037	< 0.03 J	< 0.081 J	< 0.036 J	< 0.036
2,4-Dichloropheno	NS	NS	mg/kg	NA	< 0.063	< 0.051 J	< 0.14	< 0.062 J	< 0.061
2,4-Dimethylpheno	NS	NS	mg/kg	NA	< 0.066	< 0.053	< 0.14 J	< 0.065	< 0.064

Table 7. Summary of Post Excavation Analytical Results, Paint Sludge Area 2, Operable Unit 1, Ramapo Paint Sl

Sample ID	375-6.8(b)	375-6.8(b)		PE-P2-14SW(2.5-3.0)A	PE-P2-EAST-1B (8.5-9.0)	PE-P2-EAST-2B (8.5-9.0)	PE-P2-EAST-1SW (5.0-5.5)	PE-P2-EAST-2SW (4.5-5.0)	PE-P2-EAST-3SW(4.5-5.0)
Sample Date	NYS Restricted	NYS Protection		7/19/2013	5/15/2013	5/16/2013	5/15/2013	5/16/2013	5/17/2013
SVOCs cont.									
2,4-Dinitrophenol	NS	NS	mg/kg	NA	< 0.048 J	< 0.039 J	R	< 0.047 J	< 0.047
2,4-Dinitrotoluene	NS	NS	mg/kg	NA	< 0.017	< 0.014	< 0.038 J	< 0.017	< 0.017
2,6-Dinitrotoluene	NS	NS	mg/kg	NA	< 0.015	< 0.012 J	< 0.033 J	< 0.015 J	< 0.015
2-Chloronaphthalene	NS	NS	mg/kg	NA	< 0.012	< 0.0098	< 0.027 J	< 0.012	< 0.012
2-Chlorophenol	NS	NS	mg/kg	NA	< 0.04	< 0.032 J	< 0.087 J	< 0.039 J	< 0.039
2-Methylnaphthalene	NS	NS	mg/kg	NA	< 0.022	< 0.018	< 0.048 J	< 0.021	< 0.021
2-Methylphenol	100	0.33	mg/kg	NA	< 0.045	< 0.036	< 0.098 J	< 0.044	< 0.043
2-Nitroaniline	NS	NS	mg/kg	NA	< 0.017	< 0.014	< 0.038 J	< 0.017	< 0.017
2-Nitrophenol	NS	NS	mg/kg	NA	< 0.042	< 0.033	< 0.091	< 0.041	< 0.04
3&4-Methylphenol	NS	NS	mg/kg	NA	< 0.05	< 0.04	< 0.11 J	< 0.049	< 0.048
3,3'-Dichlorobenzidine	NS	NS	mg/kg	NA	< 0.01	< 0.008	< 0.022 J	< 0.0098	< 0.0097
3-Nitroaniline	NS	NS	mg/kg	NA	< 0.016	< 0.013 J	< 0.034 J	< 0.015 J	< 0.015
4,6-Dinitro-o-cresol	NS	NS	mg/kg	NA	< 0.048 J	< 0.039	< 0.1 J	< 0.047	< 0.047
4-Bromophenyl phenyl ether	NS	NS	mg/kg	NA	< 0.014	< 0.011	< 0.031 J	< 0.014	< 0.014
4-Chloro-3-methyl phenol	NS	NS	mg/kg	NA	< 0.039	< 0.032	< 0.086 J	< 0.038	< 0.038 J
4-Chloroaniline	NS	NS	mg/kg	NA	< 0.013	< 0.01 J	< 0.028 J	< 0.012 J	< 0.012
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	NA	< 0.012	< 0.0095	< 0.026 J	< 0.012	< 0.011
4-Nitroaniline	NS	NS	mg/kg	NA	< 0.015 J	< 0.012	< 0.034 J	< 0.015	< 0.015
4-Nitrophenol	NS	NS	mg/kg	NA	< 0.067 J	< 0.053 J	< 0.15 J	< 0.065 J	< 0.064 J
Acenaphthene	100	98	mg/kg	NA	< 0.011	< 0.0092	< 0.025 J	< 0.011	< 0.011
Acenaphthylene	100	107	mg/kg	NA	< 0.013	< 0.01	< 0.028 J	< 0.012	< 0.012
Acetophenone	NS	NS	mg/kg	NA	< 0.0069	< 0.0056	< 0.015 J	< 0.0068	< 0.0067 J
Anthracene	100	1,000	mg/kg	NA	< 0.014	< 0.011	< 0.03 J	< 0.013	< 0.013
Atrazine	NS	NS	mg/kg	NA	< 0.0078	< 0.0062	< 0.017 J	< 0.0076	< 0.0075 J
Benzaldehyde	NS	NS	mg/kg	NA	< 0.0091	< 0.0073	< 0.02 J	< 0.0088	< 0.0088
Benzo(a)anthracene	1	1	mg/kg	NA	< 0.013	< 0.01	< 0.028 J	0.0264 J	< 0.012
Benzo(a)pyrene	1	22	mg/kg	NA	< 0.012	< 0.0096	< 0.026 J	0.0207 J	< 0.012
Benzo(b)fluoranthene	1	1.7	mg/kg	NA	< 0.013	< 0.011	< 0.029 J	0.0274 J	< 0.013
Benzo(g,h,i)perylene	100	1,000	mg/kg	NA	< 0.015	< 0.012	< 0.032 J	< 0.014	< 0.014
Benzo(k)fluoranthene	3.9	1.7	mg/kg	NA	< 0.015 J	< 0.012	< 0.032 J	< 0.014	< 0.014
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	NA	< 0.016	< 0.013	< 0.035	< 0.016	< 0.015
bis(2-Chloroethyl)ether	NS	NS	mg/kg	NA	< 0.012	< 0.0095	< 0.026 J	< 0.012	< 0.011
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	NA	< 0.012	< 0.0094	< 0.026 J	< 0.011	< 0.011
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	NA	< 0.035	< 0.028	< 0.076 J	< 0.034	< 0.034
Butyl benzyl phthalate	NS	NS	mg/kg	NA	< 0.023	< 0.018	< 0.05 J	< 0.022	< 0.022
Caprolactam	NS	NS	mg/kg	NA	< 0.012	< 0.0099	R	< 0.012	< 0.012
Carbazole	NS	NS	mg/kg	NA	< 0.018	< 0.015	< 0.04 J	< 0.018	< 0.018
Chrysene	3.9	1	mg/kg	NA	< 0.013	< 0.011	< 0.029 J	0.0237 J	< 0.013
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	NA	< 0.013	< 0.011	< 0.029 J	< 0.013	< 0.013
Dibenzofuran	59	210	mg/kg	NA	< 0.012	< 0.0094	< 0.026 J	< 0.011	< 0.011
Diethyl phthalate	NS	NS	mg/kg	NA	< 0.013	< 0.011	< 0.029 J	< 0.013	< 0.013
Dimethyl phthalate	NS	NS	mg/kg	NA	0.0864	< 0.011	0.0907 J	0.0443 J	< 0.013
Di-n-butyl phthalate	NS	NS	mg/kg	NA	< 0.0087	< 0.007	< 0.019 J	< 0.0085	< 0.0085
Di-n-octyl phthalate	NS	NS	mg/kg	NA	< 0.019	< 0.015	< 0.042 J	< 0.019	< 0.019
Fluoranthene	100	1,000	mg/kg	NA	< 0.017	< 0.014	< 0.038 J	0.0471	< 0.017
Fluorene	100	386	mg/kg	NA	< 0.013	< 0.01	< 0.028 J	< 0.013	< 0.013
Hexachlorobenzene	1.2	3.2	mg/kg	NA	< 0.013	< 0.01	< 0.028 J	< 0.013	< 0.012
Hexachlorobutadiene	NS	NS	mg/kg	NA	< 0.011	< 0.0088 J	R	< 0.011 J	< 0.011 J
Hexachlorocyclopentadiene	NS	NS	mg/kg	NA	< 0.04	< 0.032 J	< 0.088	< 0.039 J	< 0.039 J
Hexachloroethane	NS	NS	mg/kg	NA	< 0.011	< 0.0088	R	< 0.011	< 0.011
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	NA	< 0.014	< 0.011	< 0.03 J	< 0.013	< 0.013
Isophorone	NS	NS	mg/kg	NA	< 0.011	< 0.0085 J	< 0.023 J	< 0.01 J	< 0.01
Naphthalene	100	12	mg/kg	NA	< 0.011 J	< 0.0086	< 0.023 J	< 0.01	< 0.01
Nitrobenzene	NS	NS	mg/kg	NA	< 0.011	< 0.0091	< 0.025	< 0.011	< 0.011
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	NA	< 0.0096	< 0.0077 J	< 0.021 J	< 0.0094 J	< 0.0093 J
N-Nitrosodiphenylamine	NS	NS	mg/kg	NA	< 0.024	< 0.019	< 0.051 J	< 0.023	< 0.023
Pentachlorophenol	6.7	0.8	mg/kg	NA	< 0.067 J	< 0.054 J	< 0.15 J	< 0.066 J	< 0.065 J
Phenanthrene	100	1,000	mg/kg	NA	< 0.018	< 0.014	< 0.039 J	0.0227 J	< 0.017
Phenol	100	0.33	mg/kg	NA	< 0.041	< 0.033	< 0.09	< 0.04	< 0.04
Pyrene	100	1,000	mg/kg	NA	< 0.015	< 0.012	< 0.033 J	0.0427	< 0.015
Total TIC, Semi-Volatile	NS	NS	mg/kg	NA	0	0	0	0	0

Table 7. Summary of Post Excavation Analytical Results, Paint Sludge Area 2, Operable Unit 1, Ramapo Paint Sl

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P2-14SW(2.5-3.0)A 7/19/2013	PE-P2-EAST-1B (8.5-9.0) 5/15/2013	PE-P2-EAST-2B (8.5-9.0) 5/16/2013	PE-P2-EAST-1SW (5.0-5.5) 5/15/2013	PE-P2-EAST-2SW (4.5-5.0) 5/16/2013	PE-P2-EAST-3SW(4.5-5.0) 5/17/2013
PCBs									
Aroclor 1016	NS	NS	mg/kg	NA	< 0.01	< 0.0085	< 0.011	< 0.0098	< 0.011
Aroclor 1221	NS	NS	mg/kg	NA	< 0.024	< 0.02	< 0.026	< 0.023	< 0.025
Aroclor 1232	NS	NS	mg/kg	NA	< 0.02	< 0.016	< 0.022	< 0.019	< 0.021
Aroclor 1242	NS	NS	mg/kg	NA	< 0.012	< 0.01	< 0.014	< 0.012	< 0.013
Aroclor 1248	NS	NS	mg/kg	NA	< 0.012	< 0.0099	< 0.013	< 0.012	< 0.013
Aroclor 1254	NS	NS	mg/kg	NA	< 0.018	< 0.015	< 0.02	< 0.018	< 0.019
Aroclor 1260	NS	NS	mg/kg	NA	< 0.013	< 0.011	< 0.014	< 0.012	< 0.014
Aroclor 1262	NS	NS	mg/kg	NA	< 0.012	< 0.01	< 0.014	< 0.012	< 0.013
Aroclor 1268	NS	NS	mg/kg	NA	< 0.012	< 0.0096	< 0.013	< 0.011	< 0.012
Metals									
Aluminum	NS	NS	mg/kg	NA	7310 J	8390	17800 J	9560	12900
Antimony	NS	NS	mg/kg	NA	< 0.18	0.36 B	< 0.18	< 0.17	< 0.18
Arsenic	16	16	mg/kg	NA	1.6 B	3.4	5.3	3.6	2.4
Barium	400	820	mg/kg	NA	21.4 B	75.6	75.3	57.2	62
Beryllium	72	47	mg/kg	NA	0.38	0.58	1	0.61	0.61
Cadmium	4.3	7.5	mg/kg	NA	0.073 B	< 0.027	0.2 B	0.046 B	0.18 B
Calcium	NS	NS	mg/kg	NA	1650	3550	2780	2190	10500
Chromium	NS	NS	mg/kg	NA	17.5	21.8	21	16.2	25.2
Cobalt	NS	NS	mg/kg	NA	6.2	9.4	9.8	7.3	12.8
Copper	270	1,720	mg/kg	NA	11.6	26.2	30.8	17.9	63.7
Iron	NS	NS	mg/kg	NA	16400	25300	25400	18400	26800
Lead	400	450	mg/kg	NA	2.8	7	9	13.7	4.6
Magnesium	NS	NS	mg/kg	NA	3250	4360	3780	2710	10500
Manganese	2,000	2,000	mg/kg	NA	142	316	501	400	444
Mercury	0.81	0.73	mg/kg	NA	< 0.019	0.019 B	0.039	0.029 B	< 0.0047
Nickel	310	130	mg/kg	NA	14.8	18.2	18.7	12.5	21.9
Potassium	NS	NS	mg/kg	NA	704 B	1310	1730	1130	3360
Selenium	180	4	mg/kg	NA	< 0.29	< 0.26	< 0.29	< 0.27	< 0.29
Silver	180	8.3	mg/kg	NA	0.8	0.19 B	1.5	0.26 B	0.84
Sodium	NS	NS	mg/kg	NA	128 B	148 B	277 B	181 B	745 B
Thallium	NS	NS	mg/kg	NA	< 0.27	< 0.24	< 0.27	< 0.25	< 0.26
Vanadium	NS	NS	mg/kg	NA	23.5	35.5	35.3	26.3	49.5
Zinc	10,000	2,480	mg/kg	NA	34.1	37	44.9	41.6	44.9
Other									
Solids, Percent	NS	NS	%	81.8	81.9	92.6	76.8	84.7	81.9

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater

Table 8. Summary of Post Excavation Analytical Results - Paint Sludge Area 3, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID	375-6.8(b)	375-6.8(b)		PE-P3-EAST-1B (6.0-6.5)	PE-P3-EAST-1B(7.0-7.5)	PE-P3-EAST-1B(8.0-8.5)A	PE-P3-EAST-1B(8.0-8.5)B	PE-P3-EAST-2B(6.5-7.0)
Sample Date	NYS Restricted	NYS Protection		5/9/2013	5/10/2013	7/19/2013	7/19/2013	5/13/2013
VOCs								
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00013	< 0.0092	NA	NA	< 0.0095
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00016 J	< 0.012	NA	NA	< 0.012
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00021	< 0.015	NA	NA	< 0.016
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00016	< 0.012	NA	NA	< 0.012
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00031	< 0.022	NA	NA	< 0.023
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00017	< 0.012	NA	NA	< 0.012
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.0011	< 0.078	NA	NA	< 0.08
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00015 J	< 0.011	NA	NA	< 0.011
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.00023	< 0.016	NA	NA	< 0.017
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00016	< 0.012	NA	NA	< 0.012
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00018	< 0.013	NA	NA	< 0.014
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.00022	< 0.016	NA	NA	< 0.017
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00021	< 0.015	NA	NA	< 0.016
2-Butanone (MEK)	100	0.12	mg/kg	0.0384	< 0.21	NA	NA	< 0.21
2-Hexanone	NS	NS	mg/kg	< 0.00074 J	< 0.054	NA	NA	< 0.056
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.0009	< 0.065	NA	NA	< 0.067
Acetone	100	0.05	mg/kg	0.138	< 0.15	NA	NA	< 0.15
Benzene	4.8	0.06	mg/kg	0.00066 J	0.0228 J	NA	NA	< 0.011
Bromodichloromethane	NS	NS	mg/kg	< 0.00013	< 0.0092	NA	NA	< 0.0094
Bromoform	NS	NS	mg/kg	< 0.00018	< 0.013	NA	NA	< 0.014
Bromomethane	NS	NS	mg/kg	< 0.00033 J	< 0.024	NA	NA	< 0.025
Carbon disulfide	NS	NS	mg/kg	0.00074 J	< 0.01	NA	NA	< 0.011
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00016	< 0.012	NA	NA	< 0.012
Chlorobenzene	100	1.1	mg/kg	< 0.00013	< 0.0094	NA	NA	< 0.0097
Chloroethane	NS	NS	mg/kg	< 0.00027	< 0.02	NA	NA	< 0.02
Chloroform	49	0.37	mg/kg	< 0.000099	< 0.0072	NA	NA	< 0.0074
Chloromethane	NS	NS	mg/kg	< 0.00022	< 0.016	NA	NA	< 0.017
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00022	< 0.016	NA	NA	< 0.016
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00017	< 0.012	NA	NA	< 0.012
Cyclohexane	NS	NS	mg/kg	0.0008 J	< 0.011	NA	NA	< 0.011
Dibromochloromethane	NS	NS	mg/kg	< 0.0002	< 0.014	NA	NA	< 0.015
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00027	< 0.02	NA	NA	< 0.02
Ethylbenzene	41	1	mg/kg	0.0476	0.904	NA	NA	< 0.024
Freon 113	NS	NS	mg/kg	< 0.00051 J	< 0.037	NA	NA	< 0.039
Isopropylbenzene	NS	NS	mg/kg	6.55	1.36	NA	NA	0.792
Methyl Acetate	NS	NS	mg/kg	< 0.0031	< 0.23	NA	NA	< 0.23 J
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00028	< 0.02	NA	NA	< 0.021 J
Methylcyclohexane	NS	NS	mg/kg	0.0089	0.0655 J	NA	NA	0.0418 J
Methylene chloride	100	0.05	mg/kg	0.0034 J	< 0.11	NA	NA	< 0.11
Styrene	NS	NS	mg/kg	< 0.00011	< 0.008	NA	NA	< 0.0082
Tetrachloroethene	19	1.3	mg/kg	< 0.00021	< 0.015	NA	NA	< 0.015
Toluene	100	0.7	mg/kg	0.0138	0.0754 J	NA	NA	< 0.0094
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00028	< 0.021	NA	NA	< 0.021
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00018	< 0.014	NA	NA	< 0.014
Trichloroethene	21	0.47	mg/kg	< 0.00021	< 0.015	NA	NA	< 0.016
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00036	< 0.026	NA	NA	< 0.027
Vinyl chloride	0.9	0.02	mg/kg	< 0.00017	< 0.013	NA	NA	< 0.013
Xylene (total)	100	1.6	mg/kg	0.262	5.78	0.0207	0.0191	< 0.012
Total TIC, Volatile	NS	NS	mg/kg	0.591 JN	4.55 JN	0	0	27.1 JN
SVOCs								
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0044	< 0.005	NA	NA	< 0.0054
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.044	< 0.05	NA	NA	< 0.054
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.036	< 0.041	NA	NA	< 0.044
2,4-Dichlorophenol	NS	NS	mg/kg	< 0.061	< 0.07	NA	NA	< 0.075
2,4-Dimethylphenol	NS	NS	mg/kg	< 0.064	< 0.073	NA	NA	< 0.078

Table 8. Summary of Post Excavation Analytical Results - Paint Sludge Area 3, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID	375-6.8(b)	375-6.8(b)		PE-P3-EAST-1B (6.0-6.5)	PE-P3-EAST-1B(7.0-7.5)	PE-P3-EAST-1B(8.0-8.5)A	PE-P3-EAST-1B(8.0-8.5)B	PE-P3-EAST-2B(6.5-7.0)
Sample Date	NYS Restricted	NYS Protection		5/9/2013	5/10/2013	7/19/2013	7/19/2013	5/13/2013
SVOCs cont.								
2,4-Dinitrophenol	NS	NS	mg/kg	< 0.046	< 0.053 J	NA	NA	< 0.056
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.017	< 0.019	NA	NA	< 0.02
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.014	< 0.017	NA	NA	< 0.018
2-Chloronaphthalene	NS	NS	mg/kg	< 0.012	< 0.013	NA	NA	< 0.014 J
2-Chlorophenol	NS	NS	mg/kg	< 0.038	< 0.044	NA	NA	< 0.047
2-Methylnaphthalene	NS	NS	mg/kg	0.0364 J	< 0.024	NA	NA	0.0679 J
2-Methylphenol	100	0.33	mg/kg	< 0.043	< 0.05	NA	NA	< 0.053
2-Nitroaniline	NS	NS	mg/kg	< 0.017	< 0.019	NA	NA	< 0.02
2-Nitrophenol	NS	NS	mg/kg	< 0.04	< 0.046	NA	NA	< 0.049
3&4-Methylphenol	NS	NS	mg/kg	< 0.048	< 0.055	NA	NA	< 0.059
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0096	< 0.011	NA	NA	< 0.012
3-Nitroaniline	NS	NS	mg/kg	< 0.015	< 0.017	NA	NA	< 0.019
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.046	< 0.053	NA	NA	< 0.056
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.014	< 0.016	NA	NA	< 0.017
4-Chloro-3-methyl phenol	NS	NS	mg/kg	< 0.038	< 0.043	NA	NA	< 0.046
4-Chloroaniline	NS	NS	mg/kg	< 0.012	< 0.014	NA	NA	< 0.015
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	< 0.011	< 0.013	NA	NA	< 0.014
4-Nitroaniline	NS	NS	mg/kg	< 0.015	< 0.017	NA	NA	< 0.018
4-Nitrophenol	NS	NS	mg/kg	< 0.064	< 0.073	NA	NA	< 0.078
Acenaphthene	100	98	mg/kg	< 0.011	< 0.013	NA	NA	< 0.013
Acenaphthylene	100	107	mg/kg	< 0.012	< 0.014	NA	NA	< 0.015
Acetophenone	NS	NS	mg/kg	< 0.0067 J	< 0.0076 J	NA	NA	< 0.0082
Anthracene	100	1,000	mg/kg	< 0.013	< 0.015	NA	NA	< 0.016
Atrazine	NS	NS	mg/kg	< 0.0075	< 0.0086 J	NA	NA	< 0.0091
Benzaldehyde	NS	NS	mg/kg	< 0.0087	< 0.01	NA	NA	< 0.011
Benzo(a)anthracene	1	1	mg/kg	< 0.012	< 0.014	NA	NA	< 0.015
Benzo(a)pyrene	1	22	mg/kg	< 0.012	< 0.013	NA	NA	< 0.014
Benzo(b)fluoranthene	1	1.7	mg/kg	< 0.013	< 0.015	NA	NA	< 0.015
Benzo(g,h,i)perylene	100	1,000	mg/kg	< 0.014	< 0.016	NA	NA	< 0.017
Benzo(k)fluoranthene	3.9	1.7	mg/kg	< 0.014	< 0.016	NA	NA	< 0.017
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.015	< 0.018	NA	NA	< 0.019
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.011	< 0.013	NA	NA	< 0.014
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.011	< 0.013	NA	NA	< 0.014
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.034	< 0.038	NA	NA	< 0.041
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.022	< 0.025	NA	NA	< 0.027
Caprolactam	NS	NS	mg/kg	< 0.012	< 0.014	NA	NA	< 0.015
Carbazole	NS	NS	mg/kg	< 0.018	< 0.02	NA	NA	< 0.021
Chrysene	3.9	1	mg/kg	< 0.013	< 0.015	NA	NA	< 0.016
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.013	< 0.015	NA	NA	< 0.016
Dibenzofuran	59	210	mg/kg	< 0.011	< 0.013	NA	NA	< 0.014
Diethyl phthalate	NS	NS	mg/kg	< 0.013	< 0.015	NA	NA	< 0.016
Dimethyl phthalate	NS	NS	mg/kg	< 0.013	0.0533 J	NA	NA	0.153
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0084	< 0.0096	NA	NA	< 0.01
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.018	< 0.021	NA	NA	< 0.023
Fluoranthene	100	1,000	mg/kg	< 0.017	< 0.019	NA	NA	< 0.02
Fluorene	100	386	mg/kg	< 0.012	< 0.014	NA	NA	< 0.015
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.012	< 0.014	NA	NA	< 0.015
Hexachlorobutadiene	NS	NS	mg/kg	< 0.011	< 0.012	NA	NA	< 0.013 J
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.039	< 0.044 J	NA	NA	< 0.047 J
Hexachloroethane	NS	NS	mg/kg	< 0.011	< 0.012	NA	NA	< 0.013
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	< 0.013	< 0.015	NA	NA	< 0.016
Isophorone	NS	NS	mg/kg	< 0.01	< 0.012	NA	NA	< 0.012
Naphthalene	100	12	mg/kg	0.0269 J	< 0.012	NA	NA	< 0.013
Nitrobenzene	NS	NS	mg/kg	< 0.011	< 0.013	NA	NA	< 0.013
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0093	< 0.011	NA	NA	< 0.011
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.023	< 0.026	NA	NA	< 0.028
Pentachlorophenol	6.7	0.8	mg/kg	< 0.065 J	< 0.074 J	NA	NA	< 0.079
Phenanthrene	100	1,000	mg/kg	< 0.017	< 0.02	NA	NA	< 0.021
Phenol	100	0.33	mg/kg	< 0.04	< 0.046	NA	NA	< 0.049
Pyrene	100	1,000	mg/kg	< 0.015	< 0.017	NA	NA	< 0.018
Total TIC, Semi-Volatile	NS	NS	mg/kg	4.77 JN	1.68 JN	0	0	5.25 JN

Table 8. Summary of Post Excavation Analytical Results - Paint Sludge Area 3, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P3-EAST-1B (6.0-6.5) 5/9/2013	PE-P3-EAST-1B(7.0-7.5) 5/10/2013	PE-P3-EAST-1B(8.0-8.5)A 7/19/2013	PE-P3-EAST-1B(8.0-8.5)B 7/19/2013	PE-P3-EAST-2B(6.5-7.0) 5/13/2013
PCBs								
Aroclor 1016	NS	NS	mg/kg	< 0.01	< 0.012	NA	NA	< 0.012
Aroclor 1221	NS	NS	mg/kg	< 0.023	< 0.028	NA	NA	< 0.028
Aroclor 1232	NS	NS	mg/kg	< 0.02	< 0.023	NA	NA	< 0.023
Aroclor 1242	NS	NS	mg/kg	< 0.012	< 0.015	NA	NA	< 0.015
Aroclor 1248	NS	NS	mg/kg	< 0.012	< 0.014	NA	NA	< 0.014
Aroclor 1254	NS	NS	mg/kg	< 0.018	< 0.021	NA	NA	< 0.021
Aroclor 1260	NS	NS	mg/kg	< 0.013	< 0.015	NA	NA	< 0.015
Aroclor 1262	NS	NS	mg/kg	< 0.012	< 0.015	NA	NA	< 0.015
Aroclor 1268	NS	NS	mg/kg	< 0.011	< 0.013	NA	NA	< 0.013
Metals								
Aluminum	NS	NS	mg/kg	19100	34400	NA	NA	36000
Antimony	NS	NS	mg/kg	1.9 B	0.64 B	NA	NA	0.92 B
Arsenic	16	16	mg/kg	4.4	7.6	NA	NA	5.9
Barium	400	820	mg/kg	72.5	114	NA	NA	137
Beryllium	72	47	mg/kg	1.3	1.6	NA	NA	1.9
Cadmium	4.3	7.5	mg/kg	0.24 B	0.25 B	NA	NA	0.32 B
Calcium	NS	NS	mg/kg	3200	4180	NA	NA	4920
Chromium	NS	NS	mg/kg	24.1	32.6	NA	NA	34
Cobalt	NS	NS	mg/kg	12.5	14.2	NA	NA	16.7
Copper	270	1,720	mg/kg	29.8	43.9	NA	NA	56.1
Iron	NS	NS	mg/kg	28700	41600	NA	NA	41600
Lead	400	450	mg/kg	10.7	13.1	NA	NA	16.7
Magnesium	NS	NS	mg/kg	4330	7010	NA	NA	8200
Manganese	2,000	2,000	mg/kg	375	477	NA	NA	377
Mercury	0.81	0.73	mg/kg	0.023 B	0.049	NA	NA	0.048
Nickel	310	130	mg/kg	18.4	26.8	NA	NA	30.3
Potassium	NS	NS	mg/kg	1840	2720	NA	NA	3610
Selenium	180	4	mg/kg	0.82 B	1.9 B	NA	NA	0.98 B
Silver	180	8.3	mg/kg	0.56 B	1.7	NA	NA	< 1.5 UB
Sodium	NS	NS	mg/kg	537 B	1490	NA	NA	510 B
Thallium	NS	NS	mg/kg	< 0.28	< 0.3	NA	NA	2.4 B
Vanadium	NS	NS	mg/kg	40.2	53.4	NA	NA	69
Zinc	10,000	2,480	mg/kg	60.4	66.6	NA	NA	77.5
Other								
Solids, Percent	NS	NS	%	79.1	71.5	78.6	76.7	70.8

- Notes:
- mg/kg

<

NA

UB

B

J or JN

R

Shade

Bold

Bold and Shade
- Milligrams per kilogram

Not Detected

Not Analyzed

Result non-detected at the listed value due to associated blank contamination.

Result is between the method detection limit and the reporting limit.

Estimated Result

Rejected Result

Result exceeds the 375-6.8(b) restricted residential use.

Result exceeds the 375-6.8(b) protection of groundwater

Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater.

Table 8. Summary of Post Excavation Analytical Results - Paint Sludge Area 3, Operable Unit 1, Ramapo Paint Slud

Sample ID	375-6.8(b)	375-6.8(b)		PE-P3-EAST-3B(2.0-2.5)	PE-P3-EAST-4B(4.0-4.5)	PE-P3-EAST-5B(4.0-4.5)	PE-P3-EAST-6B(3.0-3.5)	PE-P3-EAST-7B (4.0-4.5)
Sample Date	NYS Restricted	NYS Protection		5/13/2013	6/25/2013	6/26/2013	6/26/2013	6/27/2013
VOCs								
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00012	< 0.00015	< 0.00013	< 0.00013	< 0.00011
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00015	< 0.00019	< 0.00016	< 0.00017	< 0.00014
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00019	< 0.00025	< 0.00021	< 0.00022	< 0.00018
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00015	< 0.0002	< 0.00016	< 0.00017	< 0.00014
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00029	< 0.00037	< 0.00031	< 0.00032	< 0.00027
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00015	< 0.0002	< 0.00017	< 0.00017	< 0.00014
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.00099	< 0.0013	< 0.0011 J	< 0.0011 J	< 0.00093
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00014	< 0.00018	< 0.00015	< 0.00016	< 0.00013
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.00021	< 0.00027	< 0.00023	< 0.00024	< 0.0002
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00015	< 0.0002	< 0.00016	< 0.00017	< 0.00014
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00017	< 0.00022	< 0.00018	< 0.00019	< 0.00016
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.00021	< 0.00027	< 0.00022	< 0.00024	< 0.00019
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.0002	< 0.00026	< 0.00021	< 0.00022	< 0.00018
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0027	< 0.0035	< 0.0029	< 0.003	< 0.0025
2-Hexanone	NS	NS	mg/kg	< 0.00069	< 0.0009	< 0.00074 J	< 0.00078 J	< 0.00065
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.00083	< 0.0011	< 0.0009 J	< 0.00094 J	< 0.00078
Acetone	100	0.05	mg/kg	< 0.0019	< 0.0025	< 0.002	< 0.0021	< 0.0018
Benzene	4.8	0.06	mg/kg	< 0.00013	< 0.00017	< 0.00014	< 0.00015	< 0.00012
Bromodichloromethane	NS	NS	mg/kg	< 0.00012	< 0.00015	< 0.00013	< 0.00013	< 0.00011
Bromoform	NS	NS	mg/kg	< 0.00017	< 0.00022	< 0.00018	< 0.00019	< 0.00016
Bromomethane	NS	NS	mg/kg	< 0.0003	< 0.0004	< 0.00033	< 0.00034	< 0.00028
Carbon disulfide	NS	NS	mg/kg	< 0.00013	< 0.00017	< 0.00014	< 0.00015	< 0.00012
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00015	< 0.00019	< 0.00016	< 0.00017	< 0.00014
Chlorobenzene	100	1.1	mg/kg	< 0.00012	< 0.00016	< 0.00013	< 0.00014	< 0.00011
Chloroethane	NS	NS	mg/kg	< 0.00025	< 0.00033	< 0.00027	< 0.00029	< 0.00024
Chloroform	49	0.37	mg/kg	< 0.000092	< 0.00012	< 0.000099	< 0.0001	< 0.000086
Chloromethane	NS	NS	mg/kg	< 0.00021	< 0.00027	< 0.00022	< 0.00023	< 0.00019
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.0002	< 0.00027	< 0.00022	< 0.00023	< 0.00019
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00015	< 0.0002	< 0.00017	< 0.00017	< 0.00014
Cyclohexane	NS	NS	mg/kg	< 0.00014	< 0.00018	< 0.00015	< 0.00016	< 0.00013
Dibromochloromethane	NS	NS	mg/kg	< 0.00018	< 0.00024	< 0.0002	< 0.00021	< 0.00017
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00025	< 0.00033	< 0.00027	< 0.00029	< 0.00024
Ethylbenzene	41	1	mg/kg	< 0.00029	< 0.00038	< 0.00031	< 0.00033	< 0.00027
Freon 113	NS	NS	mg/kg	< 0.00048	< 0.00062	< 0.00051	< 0.00054	< 0.00045
Isopropylbenzene	NS	NS	mg/kg	< 0.000083	< 0.00011	< 0.000089	< 0.000093	< 0.000077
Methyl Acetate	NS	NS	mg/kg	< 0.0029	< 0.0038	< 0.0031 J	< 0.0033 J	< 0.0027
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00026	< 0.00034	< 0.00028	< 0.0003	< 0.00025
Methylcyclohexane	NS	NS	mg/kg	< 0.00019	< 0.00025	< 0.0002	< 0.00021	< 0.00018
Methylene chloride	100	0.05	mg/kg	0.003 J	< 0.0018	0.0056 J	0.0073	0.0058
Styrene	NS	NS	mg/kg	< 0.0001	< 0.00013	< 0.00011	< 0.00012	< 0.000096
Tetrachloroethene	19	1.3	mg/kg	< 0.00019	< 0.00025	< 0.00021	< 0.00022	< 0.00018
Toluene	100	0.7	mg/kg	< 0.00012	< 0.00015	< 0.00013	< 0.00013	< 0.00011
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00026	< 0.00035	< 0.00028	< 0.0003	< 0.00025
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00017	< 0.00022	< 0.00019	< 0.00019	< 0.00016
Trichloroethene	21	0.47	mg/kg	< 0.00019	< 0.00025	< 0.00021	< 0.00022	< 0.00018
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00033	< 0.00043	< 0.00036	< 0.00037	< 0.00031
Vinyl chloride	0.9	0.02	mg/kg	< 0.00016	< 0.00021	< 0.00017	< 0.00018	< 0.00015
Xylene (total)	100	1.6	mg/kg	0.00045 J	< 0.0002	< 0.00017	< 0.00017	< 0.00014
Total TIC, Volatile	NS	NS	mg/kg	0	0	0	0	0
SVOCs								
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0044	< 0.0051	< 0.0038	< 0.0045	< 0.004
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.044	< 0.051	< 0.038	< 0.045	< 0.04
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.036	< 0.042 J	< 0.031 J	< 0.036	< 0.032
2,4-Dichlorophenol	NS	NS	mg/kg	< 0.061	< 0.071 J	< 0.053 J	< 0.062	< 0.055
2,4-Dimethylphenol	NS	NS	mg/kg	< 0.064	< 0.074	< 0.055	< 0.065	< 0.057

Table 8. Summary of Post Excavation Analytical Results - Paint Sludge Area 3, Operable Unit 1, Ramapo Paint Slud

Sample ID	375-6.8(b)	375-6.8(b)		PE-P3-EAST-3B(2.0-2.5)	PE-P3-EAST-4B(4.0-4.5)	PE-P3-EAST-5B(4.0-4.5)	PE-P3-EAST-6B(3.0-3.5)	PE-P3-EAST-7B (4.0-4.5)
Sample Date	NYS Restricted	NYS Protection		5/13/2013	6/25/2013	6/26/2013	6/26/2013	6/27/2013
SVOCs cont.								
2,4-Dinitrophenol	NS	NS	mg/kg	< 0.046	< 0.054 J	< 0.04	< 0.047	< 0.042
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.017	< 0.019 J	< 0.014 J	< 0.017	< 0.015
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.015	< 0.017 J	< 0.013 J	< 0.015	< 0.013
2-Chloronaphthalene	NS	NS	mg/kg	< 0.012 J	< 0.014	< 0.01	< 0.012	< 0.011
2-Chlorophenol	NS	NS	mg/kg	< 0.038	< 0.045	< 0.033	< 0.039	< 0.034
2-Methylnaphthalene	NS	NS	mg/kg	< 0.021 J	< 0.025	< 0.018	< 0.021	< 0.019
2-Methylphenol	100	0.33	mg/kg	< 0.043	< 0.05	< 0.037	< 0.044	< 0.039
2-Nitroaniline	NS	NS	mg/kg	< 0.017	< 0.019 J	< 0.014 J	< 0.017	< 0.015
2-Nitrophenol	NS	NS	mg/kg	< 0.04	< 0.047 J	< 0.035 J	< 0.041	< 0.036
3&4-Methylphenol	NS	NS	mg/kg	< 0.048	< 0.056	< 0.042	< 0.049	< 0.043
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0097	< 0.011	< 0.0083	< 0.0098	< 0.0087
3-Nitroaniline	NS	NS	mg/kg	< 0.015	< 0.018 J	< 0.013 J	< 0.015	< 0.014
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.046	< 0.054 J	< 0.04 J	< 0.047	< 0.042 J
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.014	< 0.016	< 0.012	< 0.014	< 0.012
4-Chloro-3-methyl phenol	NS	NS	mg/kg	< 0.038	< 0.044	< 0.033	< 0.038	< 0.034
4-Chloroaniline	NS	NS	mg/kg	< 0.012	< 0.014	< 0.011	< 0.012	< 0.011
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	< 0.011	< 0.013	< 0.0099	< 0.012	< 0.01
4-Nitroaniline	NS	NS	mg/kg	< 0.015	< 0.017	< 0.013	< 0.015	< 0.013
4-Nitrophenol	NS	NS	mg/kg	< 0.064	< 0.075	< 0.055	< 0.065	< 0.058
Acenaphthene	100	98	mg/kg	< 0.011	< 0.013	< 0.0095	< 0.011	< 0.0099
Acenaphthylene	100	107	mg/kg	< 0.012	< 0.014	< 0.011	< 0.012	< 0.011
Acetophenone	NS	NS	mg/kg	< 0.0067	< 0.0078	< 0.0058	< 0.0068	< 0.006 J
Anthracene	100	1,000	mg/kg	< 0.013	< 0.016	< 0.011	< 0.013	< 0.012
Atrazine	NS	NS	mg/kg	< 0.0075	< 0.0087 J	< 0.0065 J	< 0.0076	< 0.0067
Benzaldehyde	NS	NS	mg/kg	< 0.0088	< 0.01	< 0.0076	< 0.0088 J	0.04 J
Benzo(a)anthracene	1	1	mg/kg	< 0.012	< 0.014	< 0.011	< 0.013	0.0153 J
Benzo(a)pyrene	1	22	mg/kg	< 0.012	< 0.014	< 0.01	< 0.012	< 0.01
Benzo(b)fluoranthene	1	1.7	mg/kg	< 0.013	< 0.015 J	< 0.011 J	< 0.013	0.0188 J
Benzo(g,h,i)perylene	100	1,000	mg/kg	< 0.014	< 0.016	< 0.012	< 0.014	< 0.013
Benzo(k)fluoranthene	3.9	1.7	mg/kg	< 0.014	< 0.017	< 0.012	< 0.014	< 0.013
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.015	< 0.018	< 0.013	< 0.016	< 0.014
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.011	< 0.013	< 0.0099	< 0.012	< 0.01
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.011	< 0.013	< 0.0097	< 0.011	< 0.01
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.034	< 0.039	0.0371 J	< 0.034 J	< 0.03 J
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.022	< 0.026	< 0.019	< 0.022 J	< 0.02
Caprolactam	NS	NS	mg/kg	< 0.012	< 0.014 J	< 0.01 J	< 0.012	< 0.011 J
Carbazole	NS	NS	mg/kg	< 0.018	< 0.021	< 0.015	< 0.018	< 0.016
Chrysene	3.9	1	mg/kg	< 0.013	< 0.015	< 0.011	< 0.013	0.0152 J
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.013	< 0.015	< 0.011	< 0.013	< 0.012
Dibenzofuran	59	210	mg/kg	< 0.011	< 0.013	< 0.0097	< 0.011	< 0.01
Diethyl phthalate	NS	NS	mg/kg	< 0.013	< 0.015	< 0.011	< 0.013	< 0.012
Dimethyl phthalate	NS	NS	mg/kg	< 0.013	< 0.016	< 0.012	< 0.014	< 0.012
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0085	< 0.0098 J	< 0.0073 J	< 0.0085	< 0.0076
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.019	< 0.022	< 0.016	< 0.019 J	< 0.017 J
Fluoranthene	100	1,000	mg/kg	< 0.017	< 0.02	0.0175 J	< 0.017	0.0266 J
Fluorene	100	386	mg/kg	< 0.012	< 0.015	< 0.011	< 0.013	< 0.011
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.012	< 0.014	< 0.011	< 0.013	< 0.011
Hexachlorobutadiene	NS	NS	mg/kg	< 0.011 J	< 0.012	< 0.0091	< 0.011	< 0.0095
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.039 J	< 0.045	< 0.033	< 0.039	< 0.035
Hexachloroethane	NS	NS	mg/kg	< 0.011	< 0.012	< 0.0091	< 0.011	< 0.0095
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	< 0.013	< 0.015 J	< 0.011 J	< 0.013	< 0.012
Isophorone	NS	NS	mg/kg	< 0.01	< 0.012	< 0.0088	< 0.01	< 0.0092
Naphthalene	100	12	mg/kg	< 0.01	< 0.012	< 0.009	< 0.011	< 0.0093
Nitrobenzene	NS	NS	mg/kg	< 0.011	< 0.013	< 0.0095	< 0.011	< 0.0099
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0093	< 0.011	< 0.008	< 0.0094	< 0.0083
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.023	< 0.026	< 0.02	< 0.023	< 0.02
Pentachlorophenol	6.7	0.8	mg/kg	< 0.065	< 0.076 J	< 0.056 J	< 0.066	< 0.058
Phenanthrene	100	1,000	mg/kg	< 0.017	< 0.02	< 0.015	< 0.018	< 0.016
Phenol	100	0.33	mg/kg	< 0.04	< 0.047	< 0.034	< 0.04	< 0.036
Pyrene	100	1,000	mg/kg	< 0.015	< 0.017	0.0164 J	< 0.015	0.0249 J
Total TIC, Semi-Volatile	NS	NS	mg/kg	1.16 JN	5.19 JN	0.9 JN	2.66 JN	2.42 JN

Table 8. Summary of Post Excavation Analytical Results - Paint Sludge Area 3, Operable Unit 1, Ramapo Paint Slud

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P3-EAST-3B(2.0-2.5) 5/13/2013	PE-P3-EAST-4B(4.0-4.5) 6/25/2013	PE-P3-EAST-5B(4.0-4.5) 6/26/2013	PE-P3-EAST-6B(3.0-3.5) 6/26/2013	PE-P3-EAST-7B (4.0-4.5) 6/27/2013
PCBs								
Aroclor 1016	NS	NS	mg/kg	< 0.0099	< 0.012	< 0.009	< 0.01	< 0.0094
Aroclor 1221	NS	NS	mg/kg	< 0.023	< 0.027	< 0.021	< 0.024	< 0.022
Aroclor 1232	NS	NS	mg/kg	< 0.019	< 0.023	< 0.017	< 0.02	< 0.018
Aroclor 1242	NS	NS	mg/kg	< 0.012	< 0.014	< 0.011 J	< 0.013 J	< 0.011
Aroclor 1248	NS	NS	mg/kg	< 0.012	< 0.014	< 0.01 J	< 0.012 J	< 0.011
Aroclor 1254	NS	NS	mg/kg	< 0.018	< 0.021	< 0.016 J	< 0.019 J	< 0.017
Aroclor 1260	NS	NS	mg/kg	< 0.013	< 0.015	< 0.011 J	< 0.013 J	< 0.012
Aroclor 1262	NS	NS	mg/kg	< 0.012	< 0.014	< 0.011 J	< 0.013 J	< 0.011
Aroclor 1268	NS	NS	mg/kg	< 0.011	< 0.013	< 0.01 J	< 0.012 J	< 0.011
Metals								
Aluminum	NS	NS	mg/kg	17700 J	14200	6630	9210	10200
Antimony	NS	NS	mg/kg	0.59 J	< 0.32 J	< 0.24	< 0.28	< 0.28
Arsenic	16	16	mg/kg	3	2.7	2.2	2.1 B	2.1 B
Barium	400	820	mg/kg	57.7 J	51.8	24.5	55.9	39.6
Beryllium	72	47	mg/kg	1	0.73	0.31	0.73	0.59
Cadmium	4.3	7.5	mg/kg	0.15 B	< 0.096	0.22 B	0.7	0.15 B
Calcium	NS	NS	mg/kg	1060 J	1410 J	862	2040	1450
Chromium	NS	NS	mg/kg	24.5 J	21.9	12.1	15.8	24.8
Cobalt	NS	NS	mg/kg	8.3 J	4.9 B	5.1 B	4.2 B	6
Copper	270	1,720	mg/kg	12.4 J	11.3	12.7	13.5	16.7
Iron	NS	NS	mg/kg	22000 J	15800	16100	11400	18400
Lead	400	450	mg/kg	10.2	8	14	5.7	36.2
Magnesium	NS	NS	mg/kg	3100 J	3210	2310	2670	3330
Manganese	2,000	2,000	mg/kg	481 J	156	346	91.5	335
Mercury	0.81	0.73	mg/kg	0.034 B	0.032 B	0.016 B	0.018 B	0.089
Nickel	310	130	mg/kg	17.1	14.6	9.6	13.5	16.4
Potassium	NS	NS	mg/kg	482 B	540 B	649 B	592 B	641 B
Selenium	180	4	mg/kg	0.68 B	0.93 B	0.29 B	0.6 B	1.1 B
Silver	180	8.3	mg/kg	< 0.78 UB	0.32 B	< 0.1	< 0.12	0.95
Sodium	NS	NS	mg/kg	125 B	111 B	80.7 B	109 B	118 B
Thallium	NS	NS	mg/kg	< 0.27	< 0.4	< 0.3	< 0.35	< 0.35
Vanadium	NS	NS	mg/kg	38.1	35.5	19.3	26.5	30.7
Zinc	10,000	2,480	mg/kg	52.8	71.9 J	33.9	473	51.1
Other								
Solids, Percent	NS	NS	%	81.8	73.3	94.9	82.8	88.8

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use.
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater.

Table 8. Summary of Post Excavation Analytical Results - Paint Sludge Area 3, Operable Unit 1, Ramapo Paint Slud

Sample ID	375-6.8(b)	375-6.8(b)		PE-P3-EAST-8B (7.5-8.0)	PE-P3-EAST-9B (9.0-9.5)	PE-P3-EAST-10B (9.0-9.5)	PE-P3-EAST-11B (6.0-6.5)	PE-P3-EAST-12B (6.5-7.0)
Sample Date	NYS Restricted	NYS Protection		6/27/2013	6/28/2013	7/1/2013	7/1/2013	7/2/2013
VOCs								
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.000099	< 0.00015	< 0.00013	< 0.00012	< 0.0097
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00012	< 0.00019	< 0.00016	< 0.00015	< 0.012
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00016	< 0.00025	< 0.00022	< 0.0002	< 0.016
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00013	< 0.00019	< 0.00017	< 0.00016	< 0.013
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00024	< 0.00036	< 0.00032	< 0.00029	< 0.024
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00013	< 0.0002	< 0.00017	< 0.00016	< 0.013
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.00083	< 0.0013	< 0.0011	< 0.001	< 0.082
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00012	< 0.00018	< 0.00016	< 0.00015	< 0.012
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.00018	< 0.00027	< 0.00023	< 0.00022	< 0.017
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00013	< 0.00019	< 0.00017	< 0.00015	< 0.012
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00014	< 0.00022	< 0.00019	< 0.00018	< 0.014
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.00017	< 0.00026	< 0.00023	< 0.00021	< 0.017
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00016	< 0.00025	< 0.00022	< 0.0002	< 0.016
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0022	< 0.0034	< 0.003	< 0.0027	< 0.22
2-Hexanone	NS	NS	mg/kg	< 0.00058	< 0.00088	< 0.00077	< 0.00071	< 0.057
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.0007	< 0.0011	< 0.00093	< 0.00086	< 0.069
Acetone	100	0.05	mg/kg	< 0.0016	< 0.0024	< 0.0021	< 0.0019	< 0.16
Benzene	4.8	0.06	mg/kg	< 0.00011	< 0.00017	< 0.00015	< 0.00014	0.0382 J
Bromodichloromethane	NS	NS	mg/kg	< 0.000098	< 0.00015	< 0.00013	< 0.00012	< 0.0096
Bromoform	NS	NS	mg/kg	< 0.00014	< 0.00021	< 0.00019	< 0.00017	< 0.014
Bromomethane	NS	NS	mg/kg	< 0.00026	< 0.00038	< 0.00034	< 0.00031	< 0.025
Carbon disulfide	NS	NS	mg/kg	< 0.00011	< 0.00016	< 0.00014	< 0.00013	< 0.011
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00012	< 0.00019	< 0.00016	< 0.00015	< 0.012
Chlorobenzene	100	1.1	mg/kg	< 0.0001	< 0.00015	< 0.00013	< 0.00012	< 0.0099
Chloroethane	NS	NS	mg/kg	< 0.00021	< 0.00032	< 0.00028	< 0.00026	< 0.021
Chloroform	49	0.37	mg/kg	< 0.000077	< 0.00012	< 0.0001	< 0.000094	< 0.0076
Chloromethane	NS	NS	mg/kg	< 0.00017	< 0.00026	< 0.00023	< 0.00021	< 0.017
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00017	< 0.00026	< 0.00023	< 0.00021	< 0.017
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00013	< 0.0002	< 0.00017	< 0.00016	< 0.013
Cyclohexane	NS	NS	mg/kg	< 0.00012	< 0.00017	< 0.00015	< 0.00014	< 0.011
Dibromochloromethane	NS	NS	mg/kg	< 0.00015	< 0.00023	< 0.0002	< 0.00019	< 0.015
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00021	< 0.00032	< 0.00028	< 0.00026	< 0.021
Ethylbenzene	41	1	mg/kg	< 0.00025	< 0.00037	< 0.00033	< 0.0003	< 0.024
Freon 113	NS	NS	mg/kg	< 0.0004	< 0.00061	< 0.00053	< 0.00049	< 0.039
Isopropylbenzene	NS	NS	mg/kg	< 0.000069	< 0.0001	< 0.000092	< 0.000085	2.67
Methyl Acetate	NS	NS	mg/kg	< 0.0024	< 0.0037	< 0.0032	< 0.003	< 0.24
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00022	< 0.00033	< 0.00029	< 0.00027	< 0.022
Methylcyclohexane	NS	NS	mg/kg	< 0.00016	< 0.00024	< 0.00021	< 0.00019	0.0426 J
Methylene chloride	100	0.05	mg/kg	0.0069	0.0037 J	0.0017 J	0.0049 J	< 0.12
Styrene	NS	NS	mg/kg	< 0.000086	< 0.00013	< 0.00011	< 0.0001	< 0.0084
Tetrachloroethene	19	1.3	mg/kg	< 0.00016	< 0.00024	< 0.00021	< 0.0002	< 0.016
Toluene	100	0.7	mg/kg	< 0.000098	< 0.00015	< 0.00013	< 0.00012	< 0.0096
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00022	< 0.00034	< 0.00029	< 0.00027	< 0.022
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00014	< 0.00022	< 0.00019	< 0.00018	< 0.014
Trichloroethene	21	0.47	mg/kg	< 0.00016	< 0.00025	< 0.00022	< 0.0002	< 0.016
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00028	< 0.00042	< 0.00037	< 0.00034	< 0.027
Vinyl chloride	0.9	0.02	mg/kg	< 0.00013	< 0.0002	< 0.00018	< 0.00016	< 0.013
Xylene (total)	100	1.6	mg/kg	< 0.00013	< 0.0002	< 0.00017	< 0.00016	0.338
Total TIC, Volatile	NS	NS	mg/kg	0	0	0	0	0
SVOCs								
1,1'-Biphenyl	NS	NS	mg/kg	< 0.004	< 0.0047	< 0.0039	< 0.0044	< 0.0052
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.04	< 0.047	< 0.039	< 0.044	< 0.052
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.032	< 0.038	< 0.031	< 0.036	< 0.043
2,4-Dichlorophenol	NS	NS	mg/kg	< 0.056	< 0.065	< 0.054	< 0.062	< 0.073
2,4-Dimethylphenol	NS	NS	mg/kg	< 0.058	< 0.068	< 0.056	< 0.064	< 0.076

Table 8. Summary of Post Excavation Analytical Results - Paint Sludge Area 3, Operable Unit 1, Ramapo Paint Slud

Sample ID	375-6.8(b)	375-6.8(b)		PE-P3-EAST-8B (7.5-8.0)	PE-P3-EAST-9B (9.0-9.5)	PE-P3-EAST-10B (9.0-9.5)	PE-P3-EAST-11B (6.0-6.5)	PE-P3-EAST-12B (6.5-7.0)
Sample Date	NYS Restricted	NYS Protection		6/27/2013	6/28/2013	7/1/2013	7/1/2013	7/2/2013
SVOCs cont.								
2,4-Dinitrophenol	NS	NS	mg/kg	< 0.042	< 0.049	< 0.041	< 0.047	< 0.055
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.015	< 0.018	< 0.015	< 0.017	< 0.02
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.013	< 0.015	< 0.013	< 0.015	< 0.017
2-Chloronaphthalene	NS	NS	mg/kg	< 0.011	< 0.013	< 0.01	< 0.012	< 0.014
2-Chlorophenol	NS	NS	mg/kg	< 0.035	< 0.041	< 0.034	< 0.039	< 0.046
2-Methylnaphthalene	NS	NS	mg/kg	< 0.019	< 0.023	< 0.019	< 0.021	< 0.025
2-Methylphenol	100	0.33	mg/kg	< 0.039	< 0.046	< 0.038	< 0.044	< 0.052
2-Nitroaniline	NS	NS	mg/kg	< 0.015	< 0.018	< 0.015 J	< 0.017 J	< 0.02 J
2-Nitrophenol	NS	NS	mg/kg	< 0.037	< 0.043	< 0.035	< 0.041	< 0.048
3&4-Methylphenol	NS	NS	mg/kg	< 0.044	< 0.051	< 0.042	< 0.049	< 0.057
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0088	< 0.01	< 0.0085	< 0.0097	< 0.011
3-Nitroaniline	NS	NS	mg/kg	< 0.014	< 0.016	< 0.013	< 0.015	< 0.018
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.042 J	< 0.049	< 0.041	< 0.047	< 0.055
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.013	< 0.015	< 0.012	< 0.014	< 0.016
4-Chloro-3-methyl phenol	NS	NS	mg/kg	< 0.035	< 0.041	< 0.033	< 0.038	< 0.045
4-Chloroaniline	NS	NS	mg/kg	< 0.011	< 0.013	< 0.011	< 0.012	< 0.014
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	< 0.01	< 0.012	< 0.01	< 0.012	< 0.014
4-Nitroaniline	NS	NS	mg/kg	< 0.013	< 0.016	< 0.013	< 0.015	< 0.018
4-Nitrophenol	NS	NS	mg/kg	< 0.058	< 0.069	< 0.056	< 0.065	< 0.076
Acenaphthene	100	98	mg/kg	< 0.01	< 0.012	< 0.0097	< 0.011	< 0.013
Acenaphthylene	100	107	mg/kg	< 0.011	< 0.013	< 0.011	< 0.012	< 0.014
Acetophenone	NS	NS	mg/kg	< 0.0061 J	< 0.0071	< 0.0059	< 0.0068	< 0.008
Anthracene	100	1,000	mg/kg	< 0.012	< 0.014	< 0.012	< 0.013	< 0.016
Atrazine	NS	NS	mg/kg	< 0.0068	< 0.008	< 0.0066	< 0.0076	< 0.0089
Benzaldehyde	NS	NS	mg/kg	< 0.0079 J	< 0.0079 J	< 0.0077	< 0.0088	< 0.01
Benzo(a)anthracene	1	1	mg/kg	< 0.011	< 0.013	< 0.011	0.0277 J	0.0534
Benzo(a)pyrene	1	22	mg/kg	< 0.011	< 0.012	< 0.01	< 0.012	< 0.014
Benzo(b)fluoranthene	1	1.7	mg/kg	< 0.012	< 0.014	< 0.011	< 0.013	< 0.015
Benzo(g,h,i)perylene	100	1,000	mg/kg	< 0.013	< 0.015	< 0.012	< 0.014	< 0.017
Benzo(k)fluoranthene	3.9	1.7	mg/kg	< 0.013	< 0.015	< 0.013	< 0.014	< 0.017
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.014	< 0.016	< 0.013	< 0.015	< 0.018
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.01	< 0.012	< 0.01	< 0.012	< 0.014
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.01	< 0.012	< 0.0099	< 0.011	< 0.013
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.03 J	< 0.036	< 0.029	0.0548 J	< 0.04
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.02	< 0.023	< 0.019	< 0.022	< 0.026
Caprolactam	NS	NS	mg/kg	< 0.011 J	< 0.013	< 0.01	< 0.012	< 0.014
Carbazole	NS	NS	mg/kg	< 0.016	< 0.019	< 0.015	< 0.018	< 0.021
Chrysene	3.9	1	mg/kg	< 0.012	< 0.014	< 0.011	0.0252 J	0.064
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.012	< 0.014	< 0.011	< 0.013	< 0.015
Dibenzofuran	59	210	mg/kg	< 0.01	< 0.012	< 0.0099	< 0.011	< 0.013
Diethyl phthalate	NS	NS	mg/kg	< 0.012	< 0.014	< 0.011	< 0.013	< 0.015
Dimethyl phthalate	NS	NS	mg/kg	< 0.012	0.0404 J	0.0415 J	0.0822	0.293
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0077	< 0.009	< 0.0074	< 0.0085	< 0.01
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.017 J	< 0.02	< 0.016	< 0.019	< 0.022
Fluoranthene	100	1,000	mg/kg	< 0.015	< 0.018	< 0.015	0.0334 J	0.0987
Fluorene	100	386	mg/kg	< 0.011	< 0.013	< 0.011	< 0.013	< 0.015
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.011	< 0.013	< 0.011	< 0.013	< 0.015
Hexachlorobutadiene	NS	NS	mg/kg	< 0.0096	< 0.011	< 0.0093	< 0.011	< 0.013
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.035	< 0.041	< 0.034 J	< 0.039 J	< 0.046 J
Hexachloroethane	NS	NS	mg/kg	< 0.0096	< 0.011	< 0.0093	< 0.011	< 0.013
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	< 0.012	< 0.014	< 0.012	< 0.013	< 0.016
Isophorone	NS	NS	mg/kg	< 0.0093	< 0.011	< 0.009	< 0.01	< 0.012
Naphthalene	100	12	mg/kg	< 0.0094	< 0.011	< 0.0091	< 0.01	< 0.012
Nitrobenzene	NS	NS	mg/kg	< 0.01	< 0.012	< 0.0096	< 0.011	< 0.013
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0084	< 0.0099	< 0.0081	< 0.0094	< 0.011
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.021	< 0.024	< 0.02	< 0.023	< 0.027
Pentachlorophenol	6.7	0.8	mg/kg	< 0.059	< 0.069	< 0.057	< 0.066	< 0.077
Phenanthrene	100	1,000	mg/kg	< 0.016	< 0.018	< 0.015	0.0263 J	0.0377 J
Phenol	100	0.33	mg/kg	< 0.036	< 0.043	< 0.035	< 0.04	< 0.048
Pyrene	100	1,000	mg/kg	< 0.013	< 0.016	< 0.013	0.0273 J	0.0893
Total TIC, Semi-Volatile	NS	NS	mg/kg	0	0	0	0	0

Table 8. Summary of Post Excavation Analytical Results - Paint Sludge Area 3, Operable Unit 1, Ramapo Paint Slud

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P3-EAST-8B (7.5-8.0) 6/27/2013	PE-P3-EAST-9B (9.0-9.5) 6/28/2013	PE-P3-EAST-10B (9.0-9.5) 7/1/2013	PE-P3-EAST-11B (6.0-6.5) 7/1/2013	PE-P3-EAST-12B (6.5-7.0) 7/2/2013
PCBs								
Aroclor 1016	NS	NS	mg/kg	< 0.0085	< 0.01	< 0.0094	< 0.01	< 0.012
Aroclor 1221	NS	NS	mg/kg	< 0.02	< 0.024	< 0.022	< 0.024	< 0.028
Aroclor 1232	NS	NS	mg/kg	< 0.017	< 0.02	< 0.018	< 0.02	< 0.023
Aroclor 1242	NS	NS	mg/kg	< 0.01	< 0.012 J	< 0.011	< 0.013	< 0.015
Aroclor 1248	NS	NS	mg/kg	< 0.01	< 0.012 J	< 0.011	< 0.012	< 0.014
Aroclor 1254	NS	NS	mg/kg	< 0.015	< 0.018 J	< 0.017	< 0.019	< 0.021
Aroclor 1260	NS	NS	mg/kg	< 0.011	< 0.013 J	< 0.012	< 0.013	< 0.015
Aroclor 1262	NS	NS	mg/kg	< 0.01	< 0.012 J	< 0.011	< 0.013	< 0.015
Aroclor 1268	NS	NS	mg/kg	< 0.0096	< 0.012 J	< 0.011	< 0.012	< 0.013
Metals								
Aluminum	NS	NS	mg/kg	13700	9680	7450	12900	29600
Antimony	NS	NS	mg/kg	0.5 B	0.32 B	< 0.25	< 0.29	< 0.34
Arsenic	16	16	mg/kg	1.5 B	0.43 B	12.1	14.7	7.6
Barium	400	820	mg/kg	70.8	28.9	22.1	50.9	157
Beryllium	72	47	mg/kg	0.72	0.6	0.53	0.68	0.9
Cadmium	4.3	7.5	mg/kg	0.24 B	< 0.092	< 0.076	< 0.088	< 0.1 UB
Calcium	NS	NS	mg/kg	2970	2060	1970	1440	3910
Chromium	NS	NS	mg/kg	31.9	24	18.4	26.8	36.7
Cobalt	NS	NS	mg/kg	10.1	9.4	8.3	8.2	18.5
Copper	270	1,720	mg/kg	25.9	16.5	14.1	12.4	45.3
Iron	NS	NS	mg/kg	21200	18700	21600	20100	41400
Lead	400	450	mg/kg	24.1	6.5	3.3	14.2	18.7
Magnesium	NS	NS	mg/kg	5530	5020	3950	3360	6720
Manganese	2,000	2,000	mg/kg	676	155	295	708	857
Mercury	0.81	0.73	mg/kg	0.0068 B	< 0.0073	0.0081 B	0.031 B	0.12
Nickel	310	130	mg/kg	25.6	21.2	16.1	15.1	31.3
Potassium	NS	NS	mg/kg	1860	958 B	627 B	612 B	3230
Selenium	180	4	mg/kg	0.44 B	< 0.34	< 0.28	< 0.32	< 0.37
Silver	180	8.3	mg/kg	0.95	0.74	0.25 B	0.31 B	< 0.14
Sodium	NS	NS	mg/kg	314 B	150 B	119 B	117 B	591 B
Thallium	NS	NS	mg/kg	< 0.34	1.2 B	0.76 B	0.89 B	< 0.42
Vanadium	NS	NS	mg/kg	35.2	35.4	30.7	33.4	56.8
Zinc	10,000	2,480	mg/kg	60.6	52.8	33.4	48.7	84
Other								
Solids, Percent	NS	NS	%	89.1	78.8	91.9	82.5	72

- Notes:
- mg/kg

<

NA

UB

B

J or JN

R

Shade

Bold

Bold and Shade
- Milligrams per kilogram

Not Detected

Not Analyzed

Result non-detected at the listed value due to associated blank contamination.

Result is between the method detection limit and the reporting limit.

Estimated Result

Rejected Result

Result exceeds the 375-6.8(b) restricted residential use.

Result exceeds the 375-6.8(b) protection of groundwater

Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater.

Table 8. Summary of Post Excavation Analytical Results - Paint Sludge Area 3, Operable Unit 1, Ramapo Paint Slud

Sample ID	375-6.8(b)	375-6.8(b)		PE-P3-EAST-13B (4.5-5.0)	PE-P3-EAST-13B(9.5-10.0)A	PE-P3-EAST-13B(9.5-10.0)B	PE-P3-EAST-14B(4.0-4.5)	PE-P3-EAST-15W(1.5-2.0)
Sample Date	NYS Restricted	NYS Protection		7/2/2013	7/19/2013	7/19/2013	7/3/2013	5/13/2013
VOCs								
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00012	NA	NA	< 0.00013	< 0.00014
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00015	NA	NA	< 0.00016	< 0.00017
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.0002	NA	NA	< 0.00021	< 0.00022
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00015	NA	NA	< 0.00017	< 0.00018
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00029	NA	NA	< 0.00031	< 0.00033
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00016	NA	NA	< 0.00017	< 0.00018
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.001	NA	NA	< 0.0011	< 0.0011
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00014	NA	NA	< 0.00015	< 0.00016
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.00021	NA	NA	< 0.00023	< 0.00024
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00015	NA	NA	< 0.00016	< 0.00017
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00017	NA	NA	< 0.00019	< 0.0002
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.00021	NA	NA	< 0.00023	< 0.00024
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.0002	NA	NA	< 0.00021	< 0.00023
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0027	NA	NA	< 0.0029	< 0.0031
2-Hexanone	NS	NS	mg/kg	< 0.0007	NA	NA	< 0.00076	< 0.0008
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.00085	NA	NA	< 0.00091	< 0.00097
Acetone	100	0.05	mg/kg	< 0.0019	NA	NA	< 0.0021	< 0.0022
Benzene	4.8	0.06	mg/kg	< 0.00013	NA	NA	< 0.00014	< 0.00015
Bromodichloromethane	NS	NS	mg/kg	< 0.00012	NA	NA	< 0.00013	< 0.00014
Bromoform	NS	NS	mg/kg	< 0.00017	NA	NA	< 0.00018	< 0.00019
Bromomethane	NS	NS	mg/kg	< 0.00031	NA	NA	< 0.00033	< 0.00035
Carbon disulfide	NS	NS	mg/kg	< 0.00013	NA	NA	< 0.00014	< 0.00015
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00015	NA	NA	< 0.00016	< 0.00017
Chlorobenzene	100	1.1	mg/kg	< 0.00012	NA	NA	< 0.00013	< 0.00014
Chloroethane	NS	NS	mg/kg	< 0.00026	NA	NA	< 0.00028	< 0.00029
Chloroform	49	0.37	mg/kg	< 0.000093	NA	NA	< 0.0001	< 0.00011
Chloromethane	NS	NS	mg/kg	< 0.00021	NA	NA	< 0.00023	< 0.00024
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00021	NA	NA	< 0.00022	< 0.00024
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00016	NA	NA	< 0.00017	< 0.00018
Cyclohexane	NS	NS	mg/kg	< 0.00014	NA	NA	< 0.00015	< 0.00016
Dibromochloromethane	NS	NS	mg/kg	< 0.00018	NA	NA	< 0.0002	< 0.00021
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00026	NA	NA	< 0.00028	< 0.00029
Ethylbenzene	41	1	mg/kg	< 0.0003	NA	NA	< 0.00032	< 0.00034
Freon 113	NS	NS	mg/kg	< 0.00048	NA	NA	< 0.00052	< 0.00055
Isopropylbenzene	NS	NS	mg/kg	< 0.000084	NA	NA	< 0.00009	< 0.000096
Methyl Acetate	NS	NS	mg/kg	< 0.0029	NA	NA	< 0.0032	< 0.0033
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00026	NA	NA	< 0.00029	< 0.0003
Methylcyclohexane	NS	NS	mg/kg	< 0.00019	NA	NA	< 0.00021	< 0.00022
Methylene chloride	100	0.05	mg/kg	0.0015 J	NA	NA	< 0.0015	0.0029 J
Styrene	NS	NS	mg/kg	< 0.0001	NA	NA	< 0.00011	< 0.00012
Tetrachloroethene	19	1.3	mg/kg	< 0.00019	NA	NA	< 0.00021	< 0.00022
Toluene	100	0.7	mg/kg	< 0.00012	NA	NA	< 0.00013	< 0.00014
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00027	NA	NA	< 0.00029	< 0.00031
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00017	NA	NA	< 0.00019	< 0.0002
Trichloroethene	21	0.47	mg/kg	< 0.0002	NA	NA	< 0.00021	< 0.00022
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00034	NA	NA	< 0.00036	< 0.00038
Vinyl chloride	0.9	0.02	mg/kg	< 0.00016	NA	NA	< 0.00018	< 0.00019
Xylene (total)	100	1.6	mg/kg	< 0.00016	NA	NA	< 0.00017	< 0.00018
Total TIC, Volatile	NS	NS	mg/kg	0	NA	NA	0	0
SVOCs								
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0045	NA	NA	< 0.0049	< 0.0048
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.045	NA	NA	< 0.049	< 0.048
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.037	NA	NA	< 0.04	< 0.039
2,4-Dichlorophenol	NS	NS	mg/kg	< 0.063	NA	NA	< 0.068	< 0.066
2,4-Dimethylphenol	NS	NS	mg/kg	< 0.065	NA	NA	< 0.071	< 0.069

Table 8. Summary of Post Excavation Analytical Results - Paint Sludge Area 3, Operable Unit 1, Ramapo Paint Slud

Sample ID	375-6.8(b)	375-6.8(b)		PE-P3-EAST-13B (4.5-5.0)	PE-P3-EAST-13B(9.5-10.0)A	PE-P3-EAST-13B(9.5-10.0)B	PE-P3-EAST-14B(4.0-4.5)	PE-P3-EAST-15W(1.5-2.0)
Sample Date	NYS Restricted	NYS Protection		7/2/2013	7/19/2013	7/19/2013	7/3/2013	5/13/2013
SVOCs cont.								
2,4-Dinitrophenol	NS	NS	mg/kg	< 0.048	NA	NA	< 0.052	< 0.05
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.017	NA	NA	< 0.019	< 0.018
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.015	NA	NA	< 0.016	< 0.016
2-Chloronaphthalene	NS	NS	mg/kg	< 0.012	NA	NA	< 0.013	< 0.013 J
2-Chlorophenol	NS	NS	mg/kg	< 0.039	NA	NA	< 0.043	< 0.041
2-Methylnaphthalene	NS	NS	mg/kg	< 0.022	NA	NA	< 0.024	< 0.023 J
2-Methylphenol	100	0.33	mg/kg	< 0.044	NA	NA	< 0.048	< 0.047
2-Nitroaniline	NS	NS	mg/kg	< 0.017 J	NA	NA	< 0.019 J	< 0.018 J
2-Nitrophenol	NS	NS	mg/kg	< 0.041	NA	NA	< 0.045 J	< 0.044
3&4-Methylphenol	NS	NS	mg/kg	< 0.049	NA	NA	< 0.054	< 0.052
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0099	NA	NA	< 0.011	< 0.01
3-Nitroaniline	NS	NS	mg/kg	< 0.016	NA	NA	< 0.017	< 0.016
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.048	NA	NA	< 0.052	< 0.05
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.014	NA	NA	< 0.015	< 0.015
4-Chloro-3-methyl phenol	NS	NS	mg/kg	< 0.039	NA	NA	< 0.043 J	< 0.041
4-Chloroaniline	NS	NS	mg/kg	< 0.012	NA	NA	< 0.014	< 0.013
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	< 0.012	NA	NA	< 0.013	< 0.012
4-Nitroaniline	NS	NS	mg/kg	< 0.015	NA	NA	< 0.017	< 0.016
4-Nitrophenol	NS	NS	mg/kg	< 0.066	NA	NA	< 0.072	< 0.069 J
Acenaphthene	100	98	mg/kg	< 0.011	NA	NA	< 0.012	< 0.012
Acenaphthylene	100	107	mg/kg	< 0.012	NA	NA	< 0.014	< 0.013
Acetophenone	NS	NS	mg/kg	< 0.0069	NA	NA	< 0.0075	< 0.0072
Anthracene	100	1,000	mg/kg	< 0.014	NA	NA	< 0.015	0.0454
Atrazine	NS	NS	mg/kg	< 0.0077	NA	NA	< 0.0084 J	< 0.0081 J
Benzaldehyde	NS	NS	mg/kg	< 0.009	NA	NA	< 0.0098	< 0.0094
Benzo(a)anthracene	1	1	mg/kg	< 0.013	NA	NA	< 0.014	0.158
Benzo(a)pyrene	1	22	mg/kg	< 0.012	NA	NA	< 0.013	0.144
Benzo(b)fluoranthene	1	1.7	mg/kg	< 0.013	NA	NA	< 0.014	0.206
Benzo(g,h,i)perylene	100	1,000	mg/kg	< 0.014	NA	NA	< 0.016	0.0856
Benzo(k)fluoranthene	3.9	1.7	mg/kg	< 0.015	NA	NA	< 0.016	0.07
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.016	NA	NA	< 0.017	< 0.017
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.012	NA	NA	< 0.013	< 0.012
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.012	NA	NA	< 0.013	< 0.012
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.034	NA	NA	< 0.038 J	< 0.036
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.023	NA	NA	< 0.025 J	< 0.024
Caprolactam	NS	NS	mg/kg	< 0.012	NA	NA	< 0.013 J	< 0.013
Carbazole	NS	NS	mg/kg	< 0.018	NA	NA	< 0.02	< 0.019
Chrysene	3.9	1	mg/kg	< 0.013	NA	NA	< 0.014	0.143
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.013	NA	NA	< 0.015	0.0236 J
Dibenzofuran	59	210	mg/kg	< 0.012	NA	NA	< 0.013	< 0.012
Diethyl phthalate	NS	NS	mg/kg	< 0.013	NA	NA	< 0.015	< 0.014
Dimethyl phthalate	NS	NS	mg/kg	0.0562 J	NA	NA	< 0.015	< 0.014
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0087	NA	NA	< 0.0094 J	< 0.0091
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.019	NA	NA	< 0.021	< 0.02
Fluoranthene	100	1,000	mg/kg	< 0.017	NA	NA	< 0.019	0.332
Fluorene	100	386	mg/kg	< 0.013	NA	NA	< 0.014	< 0.013
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.013	NA	NA	< 0.014	< 0.013
Hexachlorobutadiene	NS	NS	mg/kg	< 0.011	NA	NA	< 0.012	< 0.011 J
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.04 J	NA	NA	< 0.043	< 0.042
Hexachloroethane	NS	NS	mg/kg	< 0.011	NA	NA	< 0.012	< 0.011
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	< 0.014	NA	NA	< 0.015	0.0926
Isophorone	NS	NS	mg/kg	< 0.01	NA	NA	< 0.011	< 0.011
Naphthalene	100	12	mg/kg	< 0.011	NA	NA	< 0.012	< 0.011
Nitrobenzene	NS	NS	mg/kg	< 0.011	NA	NA	< 0.012	< 0.012 J
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0095	NA	NA	< 0.01	< 0.01
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.023	NA	NA	< 0.025	< 0.025
Pentachlorophenol	6.7	0.8	mg/kg	< 0.067	NA	NA	< 0.073	< 0.07
Phenanthrene	100	1,000	mg/kg	< 0.018	NA	NA	< 0.019	0.162
Phenol	100	0.33	mg/kg	< 0.041	NA	NA	< 0.045	< 0.043
Pyrene	100	1,000	mg/kg	< 0.015	NA	NA	< 0.016	0.298
Total TIC, Semi-Volatile	NS	NS	mg/kg	0	NA	NA	2.28 JN	0.23 JN

Table 8. Summary of Post Excavation Analytical Results - Paint Sludge Area 3, Operable Unit 1, Ramapo Paint Slud

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P3-EAST-13B (4.5-5.0) 7/2/2013	PE-P3-EAST-13B(9.5-10.0)A 7/19/2013	PE-P3-EAST-13B(9.5-10.0)B 7/19/2013	PE-P3-EAST-14B(4.0-4.5) 7/3/2013	PE-P3-EAST-15W(1.5-2.0) 5/13/2013
PCBs								
Aroclor 1016	NS	NS	mg/kg	< 0.011	NA	NA	< 0.011	< 0.011
Aroclor 1221	NS	NS	mg/kg	< 0.025	NA	NA	< 0.025	< 0.025
Aroclor 1232	NS	NS	mg/kg	< 0.021	NA	NA	< 0.021	< 0.021
Aroclor 1242	NS	NS	mg/kg	< 0.013	NA	NA	< 0.013 J	< 0.013
Aroclor 1248	NS	NS	mg/kg	< 0.012	NA	NA	< 0.013 J	< 0.013
Aroclor 1254	NS	NS	mg/kg	< 0.019	NA	NA	< 0.019 J	< 0.019
Aroclor 1260	NS	NS	mg/kg	< 0.013	NA	NA	< 0.014 J	< 0.014
Aroclor 1262	NS	NS	mg/kg	< 0.013	NA	NA	< 0.013 J	< 0.013
Aroclor 1268	NS	NS	mg/kg	< 0.012	NA	NA	< 0.012 J	< 0.012
Metals								
Aluminum	NS	NS	mg/kg	15900	NA	NA	22500	11700
Antimony	NS	NS	mg/kg	< 0.29	NA	NA	2.7	1.2 B
Arsenic	16	16	mg/kg	16.7	2.7	4.5	9.5	4.6
Barium	400	820	mg/kg	65.1	NA	NA	110	69.9
Beryllium	72	47	mg/kg	0.87	NA	NA	1.4	0.84
Cadmium	4.3	7.5	mg/kg	< 0.088	NA	NA	0.37 B	0.31 B
Calcium	NS	NS	mg/kg	1100	NA	NA	2240	5940
Chromium	NS	NS	mg/kg	26.2	NA	NA	38.9	31.8
Cobalt	NS	NS	mg/kg	9.2	NA	NA	15.3	10.6
Copper	270	1,720	mg/kg	14.7	NA	NA	36.6	28.4
Iron	NS	NS	mg/kg	22500	NA	NA	41800	25200
Lead	400	450	mg/kg	17.1	NA	NA	50.8	45.3
Magnesium	NS	NS	mg/kg	3020	NA	NA	5710	4340
Manganese	2,000	2,000	mg/kg	542	NA	NA	942	1130
Mercury	0.81	0.73	mg/kg	0.029 B	NA	NA	0.081	0.14
Nickel	310	130	mg/kg	16.1	NA	NA	27.9	17.4
Potassium	NS	NS	mg/kg	578 B	NA	NA	1970	1070 B
Selenium	180	4	mg/kg	< 0.32	NA	NA	< 0.33	0.64 B
Silver	180	8.3	mg/kg	0.37 B	NA	NA	< 0.13	< 0.87 UB
Sodium	NS	NS	mg/kg	156 B	NA	NA	227 B	261 B
Thallium	NS	NS	mg/kg	0.87 B	NA	NA	< 1.3 UB	< 0.29
Vanadium	NS	NS	mg/kg	37.3	NA	NA	51	35.8
Zinc	10,000	2,480	mg/kg	55.4	NA	NA	542	68.3
Other								
Solids, Percent	NS	NS	%	80.7	84.7	92.8	77.6	76.1

- Notes:
- mg/kg

<

NA

UB

B

J or JN

R

Shade

Bold

Bold and Shade
- Milligrams per kilogram

Not Detected

Not Analyzed

Result non-detected at the listed value due to associated blank contamination.

Result is between the method detection limit and the reporting limit.

Estimated Result

Rejected Result

Result exceeds the 375-6.8(b) restricted residential use.

Result exceeds the 375-6.8(b) protection of groundwater

Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater.

Table 8. Summary of Post Excavation Analytical Results - Paint Sludge Area 3, Operable Unit 1, Ramapo Paint Slud

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P3-EAST-2SW(2.5-3.0) 5/14/2013	PE-P3-EAST-3SW(3.0-3.5) 6/25/2013	PE-P3-EAST-4SW(3.0-3.5) 6/25/2013	PE-P3-EAST-5SW(3.0-3.5) 6/25/2013	PE-P3-EAST-6SW(3.0-3.5) 6/25/2013
VOCs								
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00014	< 0.00012	< 0.00011	< 0.00011	< 0.00012
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00017	< 0.00014	< 0.00013	< 0.00014	< 0.00015
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00023	< 0.00019 J	< 0.00018	< 0.00018	< 0.00019
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00018	< 0.00015 J	< 0.00014	< 0.00014	< 0.00015
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00034	< 0.00028	< 0.00026	< 0.00027	< 0.00029
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00018	< 0.00015	< 0.00014	< 0.00014	< 0.00015
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.0012	< 0.00097	< 0.0009	< 0.00092	< 0.00099
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00017	< 0.00014 J	< 0.00013	< 0.00013	< 0.00014
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.00025	< 0.00021	< 0.00019	< 0.0002	< 0.00021
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00018	< 0.00015 J	< 0.00014	< 0.00014	< 0.00015
1,2-Dichloropropane	NS	NS	mg/kg	< 0.0002	< 0.00017 J	< 0.00015	< 0.00016	< 0.00017
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.00025	< 0.0002	< 0.00019	< 0.00019	< 0.00021
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00023	< 0.00019	< 0.00018	< 0.00018	< 0.0002
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0031	< 0.0026	< 0.0024	< 0.0025	< 0.0027
2-Hexanone	NS	NS	mg/kg	< 0.00082	< 0.00068	< 0.00063	< 0.00064	< 0.00069
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.00099	< 0.00082	< 0.00076	< 0.00078	< 0.00083
Acetone	100	0.05	mg/kg	< 0.0022	< 0.0018	< 0.0017	< 0.0017	< 0.0019
Benzene	4.8	0.06	mg/kg	< 0.00016	< 0.00013 J	< 0.00012	< 0.00012	< 0.00013
Bromodichloromethane	NS	NS	mg/kg	< 0.00014	< 0.00011 J	< 0.00011	< 0.00011	< 0.00012
Bromoform	NS	NS	mg/kg	< 0.0002	< 0.00016 J	< 0.00015	< 0.00016	< 0.00017
Bromomethane	NS	NS	mg/kg	< 0.00036	< 0.0003	< 0.00027	< 0.00028	< 0.0003
Carbon disulfide	NS	NS	mg/kg	< 0.00015	< 0.00013	< 0.00012	< 0.00012	< 0.00013
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00017	< 0.00015	< 0.00013	< 0.00014	< 0.00015
Chlorobenzene	100	1.1	mg/kg	< 0.00014	< 0.00012 J	< 0.00011	< 0.00011	< 0.00012
Chloroethane	NS	NS	mg/kg	< 0.0003	< 0.00025	< 0.00023	< 0.00023	< 0.00025
Chloroform	49	0.37	mg/kg	< 0.00011	< 0.00009 J	< 0.000083	< 0.000085	< 0.000092
Chloromethane	NS	NS	mg/kg	< 0.00024	< 0.0002	< 0.00019	< 0.00019	< 0.00021
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00024	< 0.0002 J	< 0.00018	< 0.00019	< 0.0002
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00018	< 0.00015 J	< 0.00014	< 0.00014	< 0.00015
Cyclohexane	NS	NS	mg/kg	< 0.00016	< 0.00014	< 0.00012	< 0.00013	< 0.00014
Dibromochloromethane	NS	NS	mg/kg	< 0.00022	< 0.00018 J	< 0.00016	< 0.00017	< 0.00018
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.0003	< 0.00025	< 0.00023	< 0.00024	< 0.00025
Ethylbenzene	41	1	mg/kg	0.00043 J	< 0.00029	< 0.00026	< 0.00027	< 0.00029
Freon 113	NS	NS	mg/kg	0.0028 J	< 0.00047	< 0.00043	< 0.00044	< 0.00048
Isopropylbenzene	NS	NS	mg/kg	0.0013 J	< 0.000081	< 0.000075	< 0.000077	< 0.000083
Methyl Acetate	NS	NS	mg/kg	< 0.0034	< 0.0028	< 0.0026	< 0.0027	< 0.0029
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00031	< 0.00026 J	< 0.00024	< 0.00024	< 0.00026
Methylcyclohexane	NS	NS	mg/kg	< 0.00022	< 0.00018	< 0.00017	< 0.00017	< 0.00019
Methylene chloride	100	0.05	mg/kg	0.0047 J	0.0033 J	0.0027 J	0.0023 J	0.0028 J
Styrene	NS	NS	mg/kg	< 0.00012	< 0.0001	< 0.000092	< 0.000095	< 0.0001
Tetrachloroethene	19	1.3	mg/kg	< 0.00023	< 0.00019	< 0.00017	< 0.00018	< 0.00019
Toluene	100	0.7	mg/kg	< 0.00014	< 0.00011	< 0.00011	< 0.00011	< 0.00012
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00031	< 0.00026 J	< 0.00024	< 0.00025	< 0.00026
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.0002	< 0.00017	< 0.00016	< 0.00016	< 0.00017
Trichloroethene	21	0.47	mg/kg	< 0.00023	< 0.00019	< 0.00018	< 0.00018	< 0.00019
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00039	< 0.00033	< 0.0003	< 0.00031	< 0.00033
Vinyl chloride	0.9	0.02	mg/kg	< 0.00019	< 0.00016	< 0.00014	< 0.00015	< 0.00016
Xylene (total)	100	1.6	mg/kg	0.00056 J	< 0.00015	< 0.00014	< 0.00014	< 0.00015
Total TIC, Volatile	NS	NS	mg/kg	0	0.0297 JN	0.0284 JN	0.0433 JN	0.038 JN
SVOCs								
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0044	< 0.0042	< 0.0042	< 0.0039	< 0.0039
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.044	< 0.042	< 0.042	< 0.039	< 0.039
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.036	< 0.034 J	< 0.034 J	< 0.031 J	< 0.031 J
2,4-Dichlorophenol	NS	NS	mg/kg	< 0.062	< 0.058 J	< 0.058 J	< 0.054 J	< 0.054 J
2,4-Dimethylphenol	NS	NS	mg/kg	< 0.064	< 0.06	< 0.061	< 0.056	< 0.056

Table 8. Summary of Post Excavation Analytical Results - Paint Sludge Area 3, Operable Unit 1, Ramapo Paint Slud

Sample ID	375-6.8(b)	375-6.8(b)		PE-P3-EAST-2SW(2.5-3.0)	PE-P3-EAST-3SW(3.0-3.5)	PE-P3-EAST-4SW(3.0-3.5)	PE-P3-EAST-5SW(3.0-3.5)	PE-P3-EAST-6SW(3.0-3.5)
Sample Date	NYS Restricted	NYS Protection		5/14/2013	6/25/2013	6/25/2013	6/25/2013	6/25/2013
SVOCs cont.								
2,4-Dinitrophenol	NS	NS	mg/kg	< 0.047	< 0.044 J	< 0.044 J	< 0.041 J	< 0.041 J
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.017 J	< 0.016 J	< 0.016 J	< 0.015 J	< 0.015 J
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.015 J	< 0.014 J	< 0.014 J	< 0.013 J	< 0.013 J
2-Chloronaphthalene	NS	NS	mg/kg	< 0.012	< 0.011	< 0.011	< 0.01	< 0.01
2-Chlorophenol	NS	NS	mg/kg	< 0.039	< 0.036	< 0.036	< 0.034	< 0.034
2-Methylnaphthalene	NS	NS	mg/kg	< 0.021	< 0.02	< 0.02	< 0.019	< 0.019
2-Methylphenol	100	0.33	mg/kg	< 0.044	< 0.041	< 0.041	< 0.038	< 0.038
2-Nitroaniline	NS	NS	mg/kg	< 0.017	< 0.016 J	< 0.016 J	< 0.015 J	< 0.015 J
2-Nitrophenol	NS	NS	mg/kg	< 0.041	< 0.038 J	< 0.038 J	< 0.035 J	< 0.035 J
3&4-Methylphenol	NS	NS	mg/kg	< 0.049	< 0.046	< 0.046	< 0.042	< 0.042
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0097 J	< 0.0091	< 0.0092	< 0.0085	< 0.0085
3-Nitroaniline	NS	NS	mg/kg	< 0.015	< 0.014 J	< 0.014 J	< 0.013 J	< 0.013 J
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.047	< 0.044 J	< 0.044 J	< 0.041 J	< 0.041 J
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.014	< 0.013	< 0.013	< 0.012	< 0.012
4-Chloro-3-methyl phenol	NS	NS	mg/kg	< 0.038	< 0.036	< 0.036	< 0.033	< 0.033
4-Chloroaniline	NS	NS	mg/kg	< 0.012	< 0.012	< 0.012	< 0.011	< 0.011
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	< 0.012	< 0.011	< 0.011	< 0.01	< 0.01
4-Nitroaniline	NS	NS	mg/kg	< 0.015	< 0.014	< 0.014	< 0.013	< 0.013
4-Nitrophenol	NS	NS	mg/kg	< 0.065 J	< 0.061	< 0.061	< 0.057	< 0.056
Acenaphthene	100	98	mg/kg	< 0.011	< 0.01	< 0.01	< 0.0097	< 0.0097
Acenaphthylene	100	107	mg/kg	< 0.012	< 0.012	< 0.012	< 0.011	< 0.011
Acetophenone	NS	NS	mg/kg	< 0.0067	< 0.0063	< 0.0064	< 0.0059	< 0.0059
Anthracene	100	1,000	mg/kg	< 0.013	< 0.013	< 0.013	< 0.012	< 0.012
Atrazine	NS	NS	mg/kg	< 0.0075 J	< 0.0071 J	< 0.0071 J	< 0.0066 J	< 0.0066 J
Benzaldehyde	NS	NS	mg/kg	< 0.0088	< 0.0083	< 0.0083	< 0.0077	< 0.0077
Benzo(a)anthracene	1	1	mg/kg	< 0.012	0.0351 J	< 0.012	< 0.011	0.0194 J
Benzo(a)pyrene	1	22	mg/kg	< 0.012	0.0303 J	< 0.011	< 0.01	0.0155 J
Benzo(b)fluoranthene	1	1.7	mg/kg	< 0.013	0.0406 J	< 0.012 J	< 0.011 J	0.0211 J
Benzo(g,h,i)perylene	100	1,000	mg/kg	< 0.014	0.022 J	< 0.013	< 0.012	< 0.012
Benzo(k)fluoranthene	3.9	1.7	mg/kg	< 0.014	0.0169 J	< 0.014	< 0.013	< 0.013
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.015	< 0.015	< 0.015	< 0.014	< 0.013
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.012	< 0.011	< 0.011	< 0.01	< 0.01
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	< 0.0099	< 0.0099
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.034	< 0.032	< 0.032	< 0.03	< 0.067 UB
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.022 J	< 0.021	< 0.021	< 0.019	< 0.019
Caprolactam	NS	NS	mg/kg	< 0.012	< 0.011 J	< 0.011 J	< 0.011 J	< 0.011 J
Carbazole	NS	NS	mg/kg	< 0.018	< 0.017	< 0.017	< 0.015	< 0.015
Chrysene	3.9	1	mg/kg	< 0.013	0.0413	< 0.012	< 0.011	0.0211 J
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.013	< 0.012	< 0.012	< 0.011	< 0.011
Dibenzofuran	59	210	mg/kg	< 0.011	< 0.011	< 0.011	< 0.0099	< 0.0099
Diethyl phthalate	NS	NS	mg/kg	< 0.013	< 0.012	< 0.012	< 0.011	< 0.011
Dimethyl phthalate	NS	NS	mg/kg	< 0.013	< 0.013	< 0.013	< 0.012	< 0.012
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0085	< 0.008 J	< 0.008 J	< 0.0074 J	< 0.0074 J
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.019	< 0.018	< 0.018	< 0.016	< 0.016
Fluoranthene	100	1,000	mg/kg	< 0.017	0.0636	< 0.016	0.0166 J	0.0285 J
Fluorene	100	386	mg/kg	< 0.013	< 0.012	< 0.012	< 0.011	< 0.011
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.012	< 0.012	< 0.012	< 0.011	< 0.011
Hexachlorobutadiene	NS	NS	mg/kg	< 0.011	< 0.01	< 0.01	< 0.0093	< 0.0093
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.039	< 0.037	< 0.037	< 0.034	< 0.034
Hexachloroethane	NS	NS	mg/kg	< 0.011	< 0.01	< 0.01	< 0.0093	< 0.0093
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	< 0.013	0.0222 J	< 0.013 J	< 0.012 J	< 0.012 J
Isophorone	NS	NS	mg/kg	< 0.01	< 0.0097	< 0.0097	< 0.009	< 0.009
Naphthalene	100	12	mg/kg	< 0.01	< 0.0098	< 0.0099	< 0.0091	< 0.0091
Nitrobenzene	NS	NS	mg/kg	< 0.011	< 0.01	< 0.01	< 0.0097	< 0.0096
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0093	< 0.0088	< 0.0088	< 0.0082	< 0.0081
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.023	< 0.021	< 0.022	< 0.02	< 0.02
Pentachlorophenol	6.7	0.8	mg/kg	< 0.065 J	< 0.061 J	< 0.062 J	< 0.057 J	< 0.057 J
Phenanthrene	100	1,000	mg/kg	< 0.017	0.0344 J	< 0.016	< 0.015	0.0162 J
Phenol	100	0.33	mg/kg	< 0.04	< 0.038	< 0.038	< 0.035	< 0.035
Pyrene	100	1,000	mg/kg	< 0.015	0.0638	< 0.014	0.016 J	0.0307 J
Total TIC, Semi-Volatile	NS	NS	mg/kg	0	2.14 JN	0.22 JN	0	1.7 JN

Table 8. Summary of Post Excavation Analytical Results - Paint Sludge Area 3, Operable Unit 1, Ramapo Paint Slud

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P3-EAST-2SW(2.5-3.0) 5/14/2013	PE-P3-EAST-3SW(3.0-3.5) 6/25/2013	PE-P3-EAST-4SW(3.0-3.5) 6/25/2013	PE-P3-EAST-5SW(3.0-3.5) 6/25/2013	PE-P3-EAST-6SW(3.0-3.5) 6/25/2013
PCBs								
Aroclor 1016	NS	NS	mg/kg	< 0.0099	< 0.0096	< 0.0094	< 0.0091	< 0.0092
Aroclor 1221	NS	NS	mg/kg	< 0.023	< 0.022	< 0.022	< 0.021	< 0.021
Aroclor 1232	NS	NS	mg/kg	< 0.019	< 0.019	< 0.018	< 0.018	< 0.018
Aroclor 1242	NS	NS	mg/kg	< 0.012	< 0.012	< 0.012	< 0.011	< 0.011
Aroclor 1248	NS	NS	mg/kg	< 0.012	< 0.011	< 0.011	< 0.011	< 0.011
Aroclor 1254	NS	NS	mg/kg	< 0.018	< 0.017	< 0.017	< 0.016	< 0.017
Aroclor 1260	NS	NS	mg/kg	< 0.012	< 0.012	< 0.012	< 0.011	< 0.012
Aroclor 1262	NS	NS	mg/kg	< 0.012	< 0.012	< 0.012	< 0.011	< 0.011
Aroclor 1268	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	< 0.01	< 0.01
Metals								
Aluminum	NS	NS	mg/kg	8070 J	9200	14800	7060	8420
Antimony	NS	NS	mg/kg	1 B	< 0.27	< 0.27	< 0.27	< 0.27
Arsenic	16	16	mg/kg	2.4	3	3.8	2.6	3
Barium	400	820	mg/kg	37.2	43.7	55	30.4	30.8
Beryllium	72	47	mg/kg	0.56	0.72	0.98	0.51	0.64
Cadmium	4.3	7.5	mg/kg	0.14 B	0.2 B	0.2 B	0.15 B	0.16 B
Calcium	NS	NS	mg/kg	3140	1550	2070	1480	1030
Chromium	NS	NS	mg/kg	12.8	17.4	26.8	14.9	18.8
Cobalt	NS	NS	mg/kg	7	6.2	8.3	5.7	5.5 B
Copper	270	1,720	mg/kg	13.8	12.3	13.3	14.1	13.5
Iron	NS	NS	mg/kg	15400	18100	24800	16300	17800
Lead	400	450	mg/kg	6.4	20.7	9.3	13.8	15.6
Magnesium	NS	NS	mg/kg	2680	2760	3810	2570	2450
Manganese	2,000	2,000	mg/kg	271	331	535	404	297
Mercury	0.81	0.73	mg/kg	< 0.018	0.05	0.032 B	0.018 B	0.036 B
Nickel	310	130	mg/kg	10.2	11.7	18	11.4	10.6
Potassium	NS	NS	mg/kg	1000 B	637 B	814 B	612 B	530 B
Selenium	180	4	mg/kg	< 0.28	< 0.29	< 0.29	0.3 B	< 0.3
Silver	180	8.3	mg/kg	0.31 J	< 0.11	< 0.11	< 0.11	< 0.12
Sodium	NS	NS	mg/kg	160 B	118 B	113 B	117 B	90.1 B
Thallium	NS	NS	mg/kg	< 0.26	< 0.33	< 0.33	< 0.33	< 0.34
Vanadium	NS	NS	mg/kg	24.8	27.6	41.8	23.7	27.7
Zinc	10,000	2,480	mg/kg	36.3	52.1	48.7	32.3	38.4
Other								
Solids, Percent	NS	NS	%	84.5	88	85.7	91.4	88.2

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use.
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater.

Table 8. Summary of Post Excavation Analytical Results - Paint Sludge Area 3, Operable Unit 1, Ramapo Paint Slud

Sample ID	375-6.8(b)	375-6.8(b)		PE-P3-EAST-7SW(3.0-3.5)	PE-P3-EAST-8SW(2.0-2.5)	PE-P3-EAST-9SW(0.5-1.0)	PE-P3-WEST-1B(4.0-4.5)	PE-P3-WEST-2B(7.0-7.5)
Sample Date	NYS Restricted	NYS Protection		6/25/2013	7/3/2013	7/26/2013	3/26/2013	3/27/2013
VOCs								
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00011	< 0.00013	< 0.00013	< 0.00012	< 0.0001
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00014	< 0.00016	< 0.00016	< 0.00015	< 0.00013
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00018	< 0.00021	< 0.00021	< 0.0002	< 0.00017
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00014	< 0.00017	< 0.00017	< 0.00016	< 0.00014
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00027	< 0.00031	< 0.00031	< 0.0003	< 0.00025
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00014	< 0.00017	< 0.00017	< 0.00016	< 0.00014
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.00092	< 0.0011	< 0.0011	< 0.001	< 0.00088
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00013	< 0.00016	< 0.00016	< 0.00015	< 0.00013
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.0002	< 0.00023	< 0.00023	< 0.00022	< 0.00019
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00014	< 0.00017	< 0.00016	< 0.00016	< 0.00013
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00016	< 0.00019	< 0.00019	< 0.00018	< 0.00015
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.00019	< 0.00023	< 0.00023	< 0.00022	< 0.00018
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00018	< 0.00022	< 0.00021	< 0.0002	< 0.00017
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0025	< 0.0029	< 0.0029	< 0.0028	< 0.0024
2-Hexanone	NS	NS	mg/kg	< 0.00064	< 0.00076	< 0.00076 J	< 0.00072	< 0.00061 J
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.00078	< 0.00092	< 0.00092 J	< 0.00087	< 0.00074 J
Acetone	100	0.05	mg/kg	< 0.0017	< 0.0021	< 0.0021	< 0.002	< 0.0017
Benzene	4.8	0.06	mg/kg	< 0.00012	< 0.00015	< 0.00015	< 0.00014	< 0.00012
Bromodichloromethane	NS	NS	mg/kg	< 0.00011	< 0.00013	< 0.00013	< 0.00012	< 0.0001
Bromoform	NS	NS	mg/kg	< 0.00016	< 0.00018	< 0.00018	< 0.00018	< 0.00015
Bromomethane	NS	NS	mg/kg	< 0.00028	< 0.00033	< 0.00033	< 0.00032	< 0.00027
Carbon disulfide	NS	NS	mg/kg	< 0.00012	< 0.00014	< 0.00014	< 0.00014	< 0.00012
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00014	< 0.00016	< 0.00016	< 0.00015	< 0.00013
Chlorobenzene	100	1.1	mg/kg	< 0.00011	< 0.00013	< 0.00013	< 0.00013	< 0.00011
Chloroethane	NS	NS	mg/kg	< 0.00023	< 0.00028	< 0.00028	< 0.00026	< 0.00022
Chloroform	49	0.37	mg/kg	< 0.000085	< 0.0001	< 0.0001	< 0.000096	< 0.000082
Chloromethane	NS	NS	mg/kg	< 0.00019	< 0.00023	< 0.00023	< 0.00022 J	< 0.00018
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00019	< 0.00022	< 0.00022	< 0.00021	< 0.00018
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00014	< 0.00017	< 0.00017	< 0.00016	< 0.00014
Cyclohexane	NS	NS	mg/kg	< 0.00013	< 0.00015	< 0.00015	< 0.00014	< 0.00012
Dibromochloromethane	NS	NS	mg/kg	< 0.00017	< 0.0002	< 0.0002	< 0.00019	< 0.00016
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00024	< 0.00028	< 0.00028	< 0.00026	< 0.00023
Ethylbenzene	41	1	mg/kg	< 0.00027	< 0.00032	< 0.00032	< 0.00031	< 0.00026
Freon 113	NS	NS	mg/kg	< 0.00045	< 0.00053	< 0.00053	< 0.0005	< 0.00042
Isopropylbenzene	NS	NS	mg/kg	< 0.000077	< 0.000091	< 0.000091	< 0.000086	< 0.000073
Methyl Acetate	NS	NS	mg/kg	< 0.0027	< 0.0032	< 0.0032	< 0.003	< 0.0026 J
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00024	< 0.00029	< 0.00029	< 0.00027	< 0.00023
Methylcyclohexane	NS	NS	mg/kg	< 0.00017	< 0.00021	< 0.00021	< 0.0002	< 0.00017
Methylene chloride	100	0.05	mg/kg	0.0029 J	< 0.0016	0.0019 J	0.0016 J	0.0036 J
Styrene	NS	NS	mg/kg	< 0.000095	< 0.00011	< 0.00011	< 0.00011	< 0.000091
Tetrachloroethene	19	1.3	mg/kg	< 0.00018	< 0.00021	< 0.00021	< 0.0002	< 0.00017
Toluene	100	0.7	mg/kg	< 0.00011	< 0.00013	< 0.00013	< 0.00012	< 0.0001
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00025	< 0.00029	< 0.00029	< 0.00028	< 0.00023
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00016	< 0.00019	< 0.00019	< 0.00018	< 0.00015
Trichloroethene	21	0.47	mg/kg	< 0.00018	< 0.00021	< 0.00021	< 0.0002	< 0.00017
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00031	< 0.00036	< 0.00036	< 0.00035	< 0.00029
Vinyl chloride	0.9	0.02	mg/kg	< 0.00015	< 0.00018	< 0.00018	< 0.00017	< 0.00014
Xylene (total)	100	1.6	mg/kg	< 0.00014	< 0.00017	< 0.00017	< 0.00016	< 0.00014
Total TIC, Volatile	NS	NS	mg/kg	0	0	0	0	0
SVOCs								
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0036	< 0.0041	< 0.0046	< 0.0046	< 0.0036
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.036	< 0.041	< 0.046	< 0.046	< 0.036
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.029 J	< 0.033	< 0.037	< 0.038	< 0.029
2,4-Dichlorophenol	NS	NS	mg/kg	< 0.05 J	< 0.057	< 0.064	< 0.065	< 0.051
2,4-Dimethylphenol	NS	NS	mg/kg	< 0.053	< 0.059	< 0.067 J	< 0.067	< 0.053

Table 8. Summary of Post Excavation Analytical Results - Paint Sludge Area 3, Operable Unit 1, Ramapo Paint Slud

Sample ID	375-6.8(b)	375-6.8(b)		PE-P3-EAST-7SW(3.0-3.5)	PE-P3-EAST-8SW(2.0-2.5)	PE-P3-EAST-9SW(0.5-1.0)	PE-P3-WEST-1B(4.0-4.5)	PE-P3-WEST-2B(7.0-7.5)
Sample Date	NYS Restricted	NYS Protection		6/25/2013	7/3/2013	7/26/2013	3/26/2013	3/27/2013
SVOCs cont.								
2,4-Dinitrophenol	NS	NS	mg/kg	< 0.038 J	< 0.043	< 0.048	< 0.049 J	< 0.038 J
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.014 J	< 0.015	< 0.017	< 0.018 J	< 0.014
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.012 J	< 0.013	< 0.015	< 0.015 J	< 0.012
2-Chloronaphthalene	NS	NS	mg/kg	< 0.0097	< 0.011	< 0.012	< 0.012	< 0.0097
2-Chlorophenol	NS	NS	mg/kg	< 0.032	< 0.036	< 0.04	< 0.04	< 0.032
2-Methylnaphthalene	NS	NS	mg/kg	< 0.017	< 0.02	< 0.022	< 0.022	< 0.018
2-Methylphenol	100	0.33	mg/kg	< 0.036	< 0.04	< 0.045	< 0.046	< 0.036
2-Nitroaniline	NS	NS	mg/kg	< 0.014 J	< 0.016 J	< 0.017	< 0.018	< 0.014
2-Nitrophenol	NS	NS	mg/kg	< 0.033 J	< 0.037 J	< 0.042	< 0.042	< 0.033
3&4-Methylphenol	NS	NS	mg/kg	< 0.04	< 0.045	< 0.05 J	< 0.051	< 0.04
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0079	< 0.009	< 0.01 J	< 0.01	< 0.008
3-Nitroaniline	NS	NS	mg/kg	< 0.013 J	< 0.014	< 0.016 J	< 0.016	< 0.013
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.038 J	< 0.043	< 0.048	< 0.049 J	< 0.038
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.011	< 0.013	< 0.014	< 0.015	< 0.011
4-Chloro-3-methyl phenol	NS	NS	mg/kg	< 0.031	< 0.035 J	< 0.04	< 0.04	< 0.031 J
4-Chloroaniline	NS	NS	mg/kg	< 0.01	< 0.011	< 0.013	< 0.013	< 0.01
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	< 0.0094	< 0.011	< 0.012	< 0.012	< 0.0094
4-Nitroaniline	NS	NS	mg/kg	< 0.012	< 0.014	< 0.015 J	< 0.016	< 0.012
4-Nitrophenol	NS	NS	mg/kg	< 0.053	< 0.06	< 0.067 J	< 0.068 J	< 0.053 J
Acenaphthene	100	98	mg/kg	< 0.0091	< 0.01	< 0.011	< 0.012	< 0.0091
Acenaphthylene	100	107	mg/kg	< 0.01	< 0.011	< 0.013	0.0568	< 0.01
Acetophenone	NS	NS	mg/kg	< 0.0055	< 0.0062	< 0.007 J	< 0.0071	< 0.0055
Anthracene	100	1,000	mg/kg	< 0.011	< 0.012	< 0.014	0.0402	< 0.011
Atrazine	NS	NS	mg/kg	< 0.0062 J	< 0.007 J	< 0.0078 J	< 0.0079	< 0.0062
Benzaldehyde	NS	NS	mg/kg	< 0.0072	< 0.0081	< 0.0091	< 0.0092	< 0.0072
Benzo(a)anthracene	1	1	mg/kg	0.0233 J	< 0.012	0.0499	0.329	< 0.01
Benzo(a)pyrene	1	22	mg/kg	0.0234 J	< 0.011	0.0513	0.355	< 0.0096
Benzo(b)fluoranthene	1	1.7	mg/kg	0.0337 J	< 0.012	0.0675	0.482	< 0.01 J
Benzo(g,h,i)perylene	100	1,000	mg/kg	0.0206 J	< 0.013	0.0351 J	0.234	< 0.012
Benzo(k)fluoranthene	3.9	1.7	mg/kg	0.0138 J	< 0.013	0.0255 J	0.359 J	< 0.012
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.013	< 0.014	< 0.016	< 0.016	< 0.013
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.0094	< 0.011	< 0.012	< 0.012	< 0.0094
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.0093	< 0.011	< 0.012	< 0.012	< 0.0093
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.028	< 0.031 J	< 0.325 UB	< 0.035 J	< 0.028
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.018	< 0.02 J	< 0.023	< 0.023	< 0.018
Caprolactam	NS	NS	mg/kg	< 0.0099 J	< 0.011 J	< 0.012 J	< 0.013	< 0.0099
Carbazole	NS	NS	mg/kg	< 0.014	< 0.016	< 0.018	< 0.019	< 0.015
Chrysene	3.9	1	mg/kg	0.0332	< 0.012	0.058	0.307	< 0.011
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.011	< 0.012	< 0.014	0.0624	< 0.011
Dibenzofuran	59	210	mg/kg	< 0.0093	< 0.011	< 0.012	< 0.012	< 0.0093
Diethyl phthalate	NS	NS	mg/kg	< 0.011	< 0.012	< 0.014	< 0.014	< 0.011
Dimethyl phthalate	NS	NS	mg/kg	< 0.011	< 0.012	0.16	< 0.014	< 0.011
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0069 J	< 0.0079 J	< 0.0088	< 0.0089	< 0.007
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.015	< 0.017	< 0.019 J	< 0.02 J	< 0.015 J
Fluoranthene	100	1,000	mg/kg	0.0412	< 0.016	0.105	0.327	< 0.014
Fluorene	100	386	mg/kg	< 0.01	< 0.012	< 0.013	< 0.013	< 0.01
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.01	< 0.012	< 0.013	< 0.013	< 0.01
Hexachlorobutadiene	NS	NS	mg/kg	< 0.0087	< 0.0098	< 0.011	< 0.011 J	< 0.0087
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.032	< 0.036	< 0.04	< 0.041 J	< 0.032 J
Hexachloroethane	NS	NS	mg/kg	< 0.0087	< 0.0098	< 0.011	< 0.011 J	< 0.0087
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	0.022 J	< 0.012	0.0415	0.238	< 0.011
Isophorone	NS	NS	mg/kg	< 0.0084	< 0.0095	< 0.011	< 0.011	< 0.0084
Naphthalene	100	12	mg/kg	< 0.0085	< 0.0097	< 0.011	< 0.011	< 0.0086
Nitrobenzene	NS	NS	mg/kg	< 0.009	< 0.01	< 0.011	< 0.012	< 0.0091
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0076	< 0.0086	< 0.0097 J	< 0.0098	< 0.0077
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.019	< 0.021	< 0.024	< 0.024	< 0.019
Pentachlorophenol	6.7	0.8	mg/kg	< 0.054 J	< 0.06	< 0.068 J	< 0.069 J	< 0.054
Phenanthrene	100	1,000	mg/kg	0.0222 J	< 0.016	0.0524	0.0256 J	< 0.014
Phenol	100	0.33	mg/kg	< 0.033	< 0.037	< 0.042	< 0.042	< 0.033
Pyrene	100	1,000	mg/kg	0.0417	< 0.014	0.0837	0.342	< 0.012
Total TIC, Semi-Volatile	NS	NS	mg/kg	0.57 JN	2.78 JN	2.35 JN	2.37 JN	0

Table 8. Summary of Post Excavation Analytical Results - Paint Sludge Area 3, Operable Unit 1, Ramapo Paint Slud

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P3-EAST-7SW(3.0-3.5) 6/25/2013	PE-P3-EAST-8SW(2.0-2.5) 7/3/2013	PE-P3-EAST-9SW(0.5-1.0) 7/26/2013	PE-P3-WEST-1B(4.0-4.5) 3/26/2013	PE-P3-WEST-2B(7.0-7.5) 3/27/2013
PCBs								
Aroclor 1016	NS	NS	mg/kg	< 0.0089	< 0.0094	< 0.0099	< 0.01	< 0.009
Aroclor 1221	NS	NS	mg/kg	< 0.021	< 0.022	< 0.023	< 0.024	< 0.021
Aroclor 1232	NS	NS	mg/kg	< 0.017	< 0.018	< 0.019	< 0.02	< 0.017
Aroclor 1242	NS	NS	mg/kg	< 0.011	< 0.012	< 0.012	< 0.013	< 0.011
Aroclor 1248	NS	NS	mg/kg	< 0.01	< 0.011	< 0.012	< 0.012	< 0.011
Aroclor 1254	NS	NS	mg/kg	< 0.016	< 0.017	< 0.018	< 0.019	< 0.016
Aroclor 1260	NS	NS	mg/kg	< 0.011	< 0.012	< 0.012	< 0.013	< 0.011
Aroclor 1262	NS	NS	mg/kg	< 0.011	< 0.012	< 0.012	NA	NA
Aroclor 1268	NS	NS	mg/kg	< 0.01	< 0.011	< 0.011	NA	NA
Metals								
Aluminum	NS	NS	mg/kg	7740	12500	11800	19900	7330
Antimony	NS	NS	mg/kg	0.52 J	0.91 B	1.2 BJ	< 2.5 UB	< 0.17
Arsenic	16	16	mg/kg	3.3	3.6	5	4.6	4.1
Barium	400	820	mg/kg	25.4	102	333	80	37.2
Beryllium	72	47	mg/kg	0.54	0.77	0.86	1	0.5
Cadmium	4.3	7.5	mg/kg	< 0.075	< 0.077	< 0.58 UB	< 0.62 UB	0.11 B
Calcium	NS	NS	mg/kg	1690 J	1480	1210 J	2980	1820
Chromium	NS	NS	mg/kg	21.8	21.8	28.7	24.7	14.1
Cobalt	NS	NS	mg/kg	6.6	7.7	7.7	10.9	6.9
Copper	270	1,720	mg/kg	11.4	14.1	19.6	35.4	11.3
Iron	NS	NS	mg/kg	22000	22000	23100 J	29300	20100
Lead	400	450	mg/kg	4.4	34.9	88.4 J	14.2	4.2
Magnesium	NS	NS	mg/kg	3720	3220	2880 J	4940	2960
Manganese	2,000	2,000	mg/kg	361	595	586	564	612
Mercury	0.81	0.73	mg/kg	0.02 B	0.04 J	0.095	0.035 B	< 0.016
Nickel	310	130	mg/kg	14.4	14.5	14.7	18.5	13.7
Potassium	NS	NS	mg/kg	820 B	662 B	548 B	2070	812 B
Selenium	180	4	mg/kg	0.47 B	0.32 B	0.59 B	0.5 B	< 0.27
Silver	180	8.3	mg/kg	0.23 B	0.17 B	< 0.12	0.098 B	0.078 B
Sodium	NS	NS	mg/kg	118 J	< 1100 UB	< 1200 UB	230 B	130 B
Thallium	NS	NS	mg/kg	< 0.31	< 1.1 UB	< 0.34	< 0.27	< 0.24
Vanadium	NS	NS	mg/kg	34.4	36.4	32.8	45.3	27.2
Zinc	10,000	2,480	mg/kg	40.4 J	48.7	78.7 J	54.1	36.1
Other								
Solids, Percent	NS	NS	%	92.9	90.9	81.9	81.3	92.1

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use.
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater.

Table 8. Summary of Post Excavation Analytical Results - Paint Sludge Area 3, Operable Unit 1, Ramapo Paint Slud

Sample ID	375-6.8(b)	375-6.8(b)		PE-P3-WEST-3B(5.0-5.5)	PE-P3-WEST-4B(7.0-7.5)	PE-P3-WEST-1SW(NORTH)(2.5-3.0)	PE-P3-WEST-2SW(WEST)(3.5-4.0)	PE-P3-WEST-3SW(3.5-4.0)
Sample Date	NYS Restricted	NYS Protection		4/19/2013	4/22/2013	3/26/2013	3/26/2013	3/27/2013
VOCs								
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00011	< 0.0071	< 0.00013	< 0.00011	< 0.00011
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00014	< 0.0088	< 0.00016	< 0.00014	< 0.00013
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00018	< 0.012	< 0.00021	< 0.00018	< 0.00017
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00014	< 0.0091	< 0.00016	< 0.00014	< 0.00014
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00027	< 0.017	< 0.00031	< 0.00027	< 0.00026
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00015	< 0.0093 J	< 0.00017	< 0.00015	< 0.00014
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.00094	< 0.059 J	< 0.0011	< 0.00094	< 0.00088
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00013	< 0.0085	< 0.00015	< 0.00013	< 0.00013
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.0002	< 0.013	< 0.00023	< 0.0002	< 0.00019
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00014	< 0.009	< 0.00016	< 0.00014	< 0.00013
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00016	< 0.01	< 0.00019	< 0.00016	< 0.00015
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.0002	< 0.012	< 0.00023	< 0.0002	< 0.00019
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00019	< 0.012	< 0.00021	< 0.00019	< 0.00017
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0025	< 0.16	< 0.0029	< 0.0025	< 0.0024
2-Hexanone	NS	NS	mg/kg	< 0.00066	< 0.041	< 0.00075	< 0.00066	< 0.00062 J
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.00079	< 0.05	< 0.0009	< 0.00079	< 0.00075 J
Acetone	100	0.05	mg/kg	< 0.0018	< 0.11	< 0.002	< 0.0018	< 0.0017
Benzene	4.8	0.06	mg/kg	< 0.00013	< 0.0079	< 0.00014	< 0.00013	< 0.00012
Bromodichloromethane	NS	NS	mg/kg	< 0.00011	< 0.007	< 0.00013	< 0.00011	< 0.0001
Bromoform	NS	NS	mg/kg	< 0.00016	< 0.01	< 0.00018	< 0.00016	< 0.00015
Bromomethane	NS	NS	mg/kg	< 0.00029	< 0.018	< 0.00033	< 0.00029	< 0.00027
Carbon disulfide	NS	NS	mg/kg	< 0.00012	< 0.0078	< 0.00014	< 0.00012	< 0.00012
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00014	< 0.0089	< 0.00016	< 0.00014	< 0.00013
Chlorobenzene	100	1.1	mg/kg	< 0.00011	< 0.0072	< 0.00013	< 0.00011	< 0.00011
Chloroethane	NS	NS	mg/kg	< 0.00024	< 0.015	< 0.00027	< 0.00024	< 0.00023
Chloroform	49	0.37	mg/kg	< 0.000087	< 0.00055	< 0.000099	< 0.000087	< 0.000082
Chloromethane	NS	NS	mg/kg	< 0.0002	< 0.012	< 0.00022 J	< 0.0002 J	< 0.00018
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00019	< 0.012	< 0.00022	< 0.00019	< 0.00018
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00015	< 0.0093	< 0.00017	< 0.00015	< 0.00014
Cyclohexane	NS	NS	mg/kg	< 0.00013	< 0.0083	< 0.00015	< 0.00013	< 0.00012
Dibromochloromethane	NS	NS	mg/kg	< 0.00017	< 0.011	< 0.0002	< 0.00017	< 0.00016
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00024	< 0.015	< 0.00027	< 0.00024	< 0.00023
Ethylbenzene	41	1	mg/kg	0.0021	< 0.018	< 0.00032	< 0.00028	0.0061
Freon 113	NS	NS	mg/kg	< 0.00045	< 0.029	< 0.00052	< 0.00045	< 0.00043
Isopropylbenzene	NS	NS	mg/kg	0.00089 J	0.994	< 0.000089	< 0.000078	0.00082 J
Methyl Acetate	NS	NS	mg/kg	< 0.0027 J	< 0.17	< 0.0031	< 0.0027	< 0.0026 J
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00025	< 0.016	< 0.00028	< 0.00025	< 0.00023
Methylcyclohexane	NS	NS	mg/kg	< 0.00018	< 0.00018	< 0.0002	< 0.00018	< 0.00017
Methylene chloride	100	0.05	mg/kg	< 0.0013	< 0.085	< 0.0015	< 0.0013	0.0045 J
Styrene	NS	NS	mg/kg	< 0.000097	< 0.0061	< 0.00011	< 0.000097	< 0.000091
Tetrachloroethene	19	1.3	mg/kg	< 0.00018	< 0.011	< 0.00021	< 0.00018	< 0.00017
Toluene	100	0.7	mg/kg	0.0011	< 0.007	< 0.00013	< 0.00011	0.0025
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00025	< 0.016	< 0.00029	< 0.00025	< 0.00024
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00016	< 0.01	< 0.00019	< 0.00016	< 0.00015
Trichloroethene	21	0.47	mg/kg	< 0.00018	< 0.012	< 0.00021	< 0.00018	< 0.00017
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00031	< 0.02	< 0.00036	< 0.00031	< 0.0003
Vinyl chloride	0.9	0.02	mg/kg	< 0.00015	< 0.0096	< 0.00017	< 0.00015	< 0.00014
Xylene (total)	100	1.6	mg/kg	0.0131	0.164	< 0.00017	< 0.00015	0.0487
Total TIC, Volatile	NS	NS	mg/kg	0	18.2 JN	0	0	0
SVOCs								
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0044	< 0.0041	< 0.0043	< 0.0044	< 0.0038
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.044	< 0.041	< 0.043	< 0.044	< 0.038
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.036	< 0.033	< 0.035	< 0.036	< 0.031
2,4-Dichlorophenol	NS	NS	mg/kg	< 0.061	< 0.056	< 0.06	< 0.061	< 0.053
2,4-Dimethylphenol	NS	NS	mg/kg	< 0.064	< 0.059	< 0.062	< 0.064	< 0.055

Table 8. Summary of Post Excavation Analytical Results - Paint Sludge Area 3, Operable Unit 1, Ramapo Paint Slud

Sample ID	375-6.8(b)	375-6.8(b)		PE-P3-WEST-3B(5.0-5.5)	PE-P3-WEST-4B(7.0-7.5)	PE-P3-WEST-1SW(NORTH)(2.5-3.0)	PE-P3-WEST-2SW(WEST)(3.5-4.0)	PE-P3-WEST-3SW(3.5-4.0)
Sample Date	NYS Restricted	NYS Protection		4/19/2013	4/22/2013	3/26/2013	3/26/2013	3/27/2013
SVOCs cont.								
2,4-Dinitrophenol	NS	NS	mg/kg	< 0.046	< 0.043 J	R	< 0.046 J	< 0.04 J
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.017	< 0.015 J	< 0.016 J	< 0.017 J	< 0.014
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.014	< 0.013	< 0.014 J	< 0.014 J	< 0.012
2-Chloronaphthalene	NS	NS	mg/kg	< 0.012	< 0.011	< 0.012 J	< 0.012	< 0.01
2-Chlorophenol	NS	NS	mg/kg	< 0.038	< 0.035	< 0.038	< 0.038	< 0.033
2-Methylnaphthalene	NS	NS	mg/kg	< 0.021	0.0868	< 0.021 J	< 0.021	< 0.018
2-Methylphenol	100	0.33	mg/kg	< 0.043	< 0.04	< 0.042	< 0.043	< 0.037
2-Nitroaniline	NS	NS	mg/kg	< 0.017	< 0.015	< 0.016	< 0.017	< 0.014
2-Nitrophenol	NS	NS	mg/kg	< 0.04	< 0.037 J	< 0.039	< 0.04	< 0.035
3&4-Methylphenol	NS	NS	mg/kg	< 0.048	< 0.044	< 0.047	< 0.048	< 0.042
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0096 J	< 0.0089	< 0.0094	< 0.0096	< 0.0083
3-Nitroaniline	NS	NS	mg/kg	< 0.015 J	< 0.014	< 0.015	< 0.015	< 0.013
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.046	< 0.043 J	< 0.045 J	< 0.046 J	< 0.04
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.014	< 0.013	< 0.013	< 0.014	< 0.012
4-Chloro-3-methyl phenol	NS	NS	mg/kg	< 0.038	< 0.035 J	< 0.037	< 0.038	< 0.033 J
4-Chloroaniline	NS	NS	mg/kg	< 0.012	< 0.011	< 0.012	< 0.012	< 0.01
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	< 0.011	< 0.0098
4-Nitroaniline	NS	NS	mg/kg	< 0.015 J	< 0.014	< 0.014	< 0.015	< 0.013
4-Nitrophenol	NS	NS	mg/kg	< 0.064 J	< 0.059	< 0.063 J	< 0.064 J	< 0.055 J
Acenaphthene	100	98	mg/kg	< 0.011	< 0.01	< 0.011	< 0.011	< 0.0095
Acenaphthylene	100	107	mg/kg	< 0.012	< 0.011	0.0183 J	0.0202 J	< 0.01
Acetophenone	NS	NS	mg/kg	< 0.0067	< 0.0062	< 0.0065	< 0.0067	< 0.0058
Anthracene	100	1,000	mg/kg	< 0.013	< 0.012	0.0149 J	0.0203 J	< 0.011
Atrazine	NS	NS	mg/kg	< 0.0075	< 0.0069	< 0.0073	< 0.0075	< 0.0064
Benzaldehyde	NS	NS	mg/kg	< 0.0087	< 0.0081	< 0.0085 J	< 0.0087	< 0.0075
Benzo(a)anthracene	1	1	mg/kg	0.0314 J	< 0.011	0.0991	0.115	< 0.011
Benzo(a)pyrene	1	22	mg/kg	0.0228 J	< 0.011	0.0964	0.116	< 0.01
Benzo(b)fluoranthene	1	1.7	mg/kg	0.0238 J	< 0.012	0.135	0.153	< 0.011 J
Benzo(g,h,i)perylene	100	1,000	mg/kg	0.0184 J	< 0.013	0.0687	0.0737	< 0.012
Benzo(k)fluoranthene	3.9	1.7	mg/kg	0.0222 J	< 0.013	0.0844 J	0.0946 J	< 0.012
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.015	< 0.014	< 0.015	< 0.015	< 0.013
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011 J	< 0.011	< 0.0098
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.011	< 0.01	< 0.011 J	< 0.011	< 0.0097
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.034 J	0.338	< 0.033 J	< 0.034 J	< 0.029
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.022 J	< 0.02	< 0.022	< 0.022	< 0.019
Caprolactam	NS	NS	mg/kg	< 0.012	< 0.011	< 0.012	< 0.012	< 0.01
Carbazole	NS	NS	mg/kg	< 0.018	< 0.016	< 0.017	< 0.018	< 0.015
Chrysene	3.9	1	mg/kg	0.0288 J	0.0167 J	0.101	0.115	< 0.011
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.013	< 0.012	0.0273 J	0.0322 J	< 0.011
Dibenzofuran	59	210	mg/kg	< 0.011	< 0.01	< 0.011	< 0.011	< 0.0097
Diethyl phthalate	NS	NS	mg/kg	< 0.013	< 0.012	< 0.013	< 0.013	< 0.011
Dimethyl phthalate	NS	NS	mg/kg	< 0.013	< 0.012	< 0.013	< 0.013	< 0.012
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0084	< 0.0078	< 0.0083	< 0.0084	< 0.0073
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.019	< 0.017 J	< 0.018 J	< 0.018 J	< 0.016 J
Fluoranthene	100	1,000	mg/kg	0.0598	0.0242 J	0.139	0.161	< 0.014
Fluorene	100	386	mg/kg	< 0.012	< 0.011	< 0.012	< 0.012	< 0.011
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.012	< 0.011	< 0.012	< 0.012	< 0.011
Hexachlorobutadiene	NS	NS	mg/kg	< 0.011	< 0.0097	< 0.01 J	< 0.011 J	< 0.0091
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.039	< 0.036	R	< 0.039 J	< 0.033 J
Hexachloroethane	NS	NS	mg/kg	< 0.011	< 0.0097	< 0.01 J	< 0.011 J	< 0.0091
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	0.0159 J	< 0.012	0.0642	0.0727	< 0.011
Isophorone	NS	NS	mg/kg	< 0.01	< 0.0094	< 0.01	< 0.01	< 0.0088
Naphthalene	100	12	mg/kg	< 0.01	0.11	0.015 J	0.0401	< 0.0089
Nitrobenzene	NS	NS	mg/kg	< 0.011	< 0.01	< 0.011 J	< 0.011	< 0.0095
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0093	< 0.0085	< 0.0091	< 0.0093	< 0.008
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.023	< 0.021	< 0.022	< 0.023	< 0.02
Pentachlorophenol	6.7	0.8	mg/kg	< 0.065	< 0.06	< 0.064 J	< 0.065 J	< 0.056
Phenanthrene	100	1,000	mg/kg	0.0291 J	0.0393	0.0245 J	0.0316 J	< 0.015
Phenol	100	0.33	mg/kg	< 0.04	< 0.037	< 0.039	< 0.04	< 0.034
Pyrene	100	1,000	mg/kg	0.0516	0.0213 J	0.137	0.148	< 0.013
Total TIC, Semi-Volatile	NS	NS	mg/kg	0	21.4 JN	2.87 JN	1.41 JN	0

Table 8. Summary of Post Excavation Analytical Results - Paint Sludge Area 3, Operable Unit 1, Ramapo Paint Slud

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P3-WEST-3B(5.0-5.5) 4/19/2013	PE-P3-WEST-4B(7.0-7.5) 4/22/2013	PE-P3-WEST-1SW(NORTH)(2.5-3.0) 3/26/2013	PE-P3-WEST-2SW(WEST)(3.5-4.0) 3/26/2013	PE-P3-WEST-3SW(3.5-4.0) 3/27/2013
PCBs								
Aroclor 1016	NS	NS	mg/kg	< 0.0097	< 0.01	< 0.01	< 0.0098	< 0.009
Aroclor 1221	NS	NS	mg/kg	< 0.022	< 0.024	< 0.023	< 0.023	< 0.021
Aroclor 1232	NS	NS	mg/kg	< 0.019	< 0.02	< 0.019	< 0.019	< 0.018
Aroclor 1242	NS	NS	mg/kg	< 0.012	< 0.013 J	< 0.012	< 0.012	< 0.011
Aroclor 1248	NS	NS	mg/kg	< 0.011	< 0.012 J	< 0.012	< 0.011	< 0.011
Aroclor 1254	NS	NS	mg/kg	< 0.017	< 0.019 J	< 0.018	< 0.018	< 0.016
Aroclor 1260	NS	NS	mg/kg	< 0.012	< 0.013 J	< 0.013	< 0.012	< 0.011
Aroclor 1262	NS	NS	mg/kg	< 0.012	< 0.013 J	NA	NA	NA
Aroclor 1268	NS	NS	mg/kg	< 0.011	< 0.012 J	NA	NA	NA
Metals								
Aluminum	NS	NS	mg/kg	13600 J	15800	16800	12600	15100
Antimony	NS	NS	mg/kg	2.1 J	0.52 B	< 2.3 UB	< 2.2 UB	< 0.16
Arsenic	16	16	mg/kg	10.4	3.7	3.9	3.5	4.1
Barium	400	820	mg/kg	55.3 J	93.7	74.3	118	56.4
Beryllium	72	47	mg/kg	0.55	0.58	0.85	0.68	0.72
Cadmium	4.3	7.5	mg/kg	0.11 B	< 0.59 UB	< 0.57 UB	< 0.55 UB	0.2 B
Calcium	NS	NS	mg/kg	13500 J	2150	2520	1860	1060
Chromium	NS	NS	mg/kg	25.6 J	26.3	20.9	20	22.9
Cobalt	NS	NS	mg/kg	11.2 J	8.7	9.2	7	7.7
Copper	270	1,720	mg/kg	23.7	R	28.1	22.5	16.2
Iron	NS	NS	mg/kg	27500 J	24500	24000	20300	22900
Lead	400	450	mg/kg	26	23.4	38.3	48.3	15.8
Magnesium	NS	NS	mg/kg	9070 J	3720	4100	3350	3170
Manganese	2,000	2,000	mg/kg	765 J	501	423	341	712
Mercury	0.81	0.73	mg/kg	0.033 B	0.038	0.047	0.059	0.034 B
Nickel	310	130	mg/kg	23.1	16.7	16	13.7	16
Potassium	NS	NS	mg/kg	1030 B	1170 B	1680	1140	804 B
Selenium	180	4	mg/kg	2.5	0.37 J	0.35 B	0.61 B	< 0.25
Silver	180	8.3	mg/kg	0.53 B	1.2	0.17 B	0.25 B	0.2 B
Sodium	NS	NS	mg/kg	191 B	< 1200 UB	187 B	< 1100 UB	109 B
Thallium	NS	NS	mg/kg	< 0.24	< 0.26	< 0.25	< 0.24	< 0.23
Vanadium	NS	NS	mg/kg	51 J	36	38.1	33.8	40.3
Zinc	10,000	2,480	mg/kg	61.5 J	57.7	54.5	68.3	47.1
Other								
Solids, Percent	NS	NS	%	86.3	79.8	86.5	87.8	91.5

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use.
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater.

Table 8. Summary of Post Excavation Analytical Results - Paint Sludge Area 3, Operable Unit 1, Ramapo Paint Slud

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P3-WEST-4SW(SOUTH)(3.5-4.0) 3/28/2013	PE-P3-WEST-5SW (2.5-3.0) 4/23/2013	PE-P3-WEST-6SW(1.0-1.5) 5/9/2013	PS-3-EAST-HG 5/29/2013
VOCs							
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00012	< 0.00013	< 0.00013	NA
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00015	< 0.00016	< 0.00016	NA
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00019	< 0.00022	< 0.00021	NA
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00015	< 0.00017	< 0.00017	NA
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00029	< 0.00032	< 0.00031	NA
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00015	< 0.00017	< 0.00017	NA
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.00099	< 0.0011	< 0.0011	NA
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00014	< 0.00016	< 0.00015	NA
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.00021	< 0.00024	< 0.00023	NA
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00015	< 0.00017	< 0.00016	NA
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00017	< 0.00019	< 0.00019	NA
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.00021	< 0.00023	< 0.00023	NA
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.0002	< 0.00022	< 0.00021	NA
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0027	< 0.003	< 0.0029	NA
2-Hexanone	NS	NS	mg/kg	< 0.00069 J	< 0.00078	< 0.00076	NA
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.00083 J	< 0.00094	< 0.00092	NA
Acetone	100	0.05	mg/kg	< 0.0019	< 0.0021	< 0.0021	NA
Benzene	4.8	0.06	mg/kg	< 0.00013	< 0.00015	< 0.00015	NA
Bromodichloromethane	NS	NS	mg/kg	< 0.00012	< 0.00013	< 0.00013	NA
Bromoform	NS	NS	mg/kg	< 0.00017	< 0.00019	< 0.00018	NA
Bromomethane	NS	NS	mg/kg	< 0.0003	< 0.00034	< 0.00033 J	NA
Carbon disulfide	NS	NS	mg/kg	< 0.00013	< 0.00015	< 0.00014	NA
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00015	< 0.00017	< 0.00016	NA
Chlorobenzene	100	1.1	mg/kg	< 0.00012	< 0.00013	< 0.00013	NA
Chloroethane	NS	NS	mg/kg	< 0.00025	< 0.00028	< 0.00028	NA
Chloroform	49	0.37	mg/kg	< 0.000092	< 0.0001	< 0.0001	NA
Chloromethane	NS	NS	mg/kg	< 0.00021	< 0.00023	< 0.00023	NA
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.0002	< 0.00023	< 0.00022	NA
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00015	< 0.00017	< 0.00017	NA
Cyclohexane	NS	NS	mg/kg	< 0.00014	< 0.00015	< 0.00015	NA
Dibromochloromethane	NS	NS	mg/kg	< 0.00018	< 0.0002	< 0.0002	NA
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00025	< 0.00028	< 0.00028	NA
Ethylbenzene	41	1	mg/kg	< 0.00029	< 0.00033	< 0.00032	NA
Freon 113	NS	NS	mg/kg	< 0.00048	< 0.00054	< 0.00052	NA
Isopropylbenzene	NS	NS	mg/kg	< 0.000083	< 0.000093	< 0.000091	NA
Methyl Acetate	NS	NS	mg/kg	< 0.0029 J	< 0.0032	< 0.0032	NA
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00026	< 0.00029	< 0.00029	NA
Methylcyclohexane	NS	NS	mg/kg	< 0.00019	< 0.00021	< 0.00021	NA
Methylene chloride	100	0.05	mg/kg	0.0086	0.0029 J	0.0029 J	NA
Styrene	NS	NS	mg/kg	< 0.0001	< 0.00011	< 0.00011	NA
Tetrachloroethene	19	1.3	mg/kg	< 0.00019	< 0.00021	< 0.00021	NA
Toluene	100	0.7	mg/kg	< 0.00012	< 0.00013	< 0.00013	NA
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00026	< 0.0003	< 0.00029	NA
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00017	< 0.00019	< 0.00019	NA
Trichloroethene	21	0.47	mg/kg	< 0.00019	< 0.00022	< 0.00021	NA
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00033	< 0.00037	< 0.00036	NA
Vinyl chloride	0.9	0.02	mg/kg	< 0.00016	< 0.00018	< 0.00018	NA
Xylene (total)	100	1.6	mg/kg	< 0.00015	< 0.00017	< 0.00017	NA
Total TIC, Volatile	NS	NS	mg/kg	0.09 JN	0	0	NA
SVOCs							
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0034	< 0.0044	< 0.0048	NA
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.034	< 0.044	< 0.048	NA
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.027	< 0.035	< 0.039	NA
2,4-Dichlorophenol	NS	NS	mg/kg	< 0.047	< 0.061	< 0.066	NA
2,4-Dimethylphenol	NS	NS	mg/kg	< 0.049	< 0.063	< 0.069	NA

Table 8. Summary of Post Excavation Analytical Results - Paint Sludge Area 3, Operable Unit 1, Ramapo Paint Slud

Sample ID	375-6.8(b)	375-6.8(b)		PE-P3-WEST-4SW(SOUTH)(3.5-4.0)	PE-P3-WEST-5SW (2.5-3.0)	PE-P3-WEST-6SW(1.0-1.5)	PS-3-EAST-HG
Sample Date	NYS Restricted	NYS Protection		3/28/2013	4/23/2013	5/9/2013	5/29/2013
SVOCs cont.							
2,4-Dinitrophenol	NS	NS	mg/kg	< 0.036 J	< 0.046	< 0.05	NA
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.013	< 0.016 J	< 0.018	NA
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.011	< 0.014 J	< 0.016	NA
2-Chloronaphthalene	NS	NS	mg/kg	< 0.009	< 0.012	< 0.013	NA
2-Chlorophenol	NS	NS	mg/kg	< 0.029	< 0.038	< 0.041	NA
2-Methylnaphthalene	NS	NS	mg/kg	< 0.016	< 0.021	< 0.023	NA
2-Methylphenol	100	0.33	mg/kg	< 0.033	< 0.043	< 0.047	NA
2-Nitroaniline	NS	NS	mg/kg	< 0.013	< 0.017	< 0.018	NA
2-Nitrophenol	NS	NS	mg/kg	< 0.031	< 0.04	< 0.043	NA
3&4-Methylphenol	NS	NS	mg/kg	< 0.037	< 0.048	< 0.052	NA
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0074	< 0.0096	< 0.01	NA
3-Nitroaniline	NS	NS	mg/kg	< 0.012	< 0.015	< 0.016	NA
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.036	< 0.046 J	< 0.05	NA
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.011	< 0.014	< 0.015	NA
4-Chloro-3-methyl phenol	NS	NS	mg/kg	< 0.029 J	< 0.038	< 0.041	NA
4-Chloroaniline	NS	NS	mg/kg	< 0.0093	< 0.012	< 0.013	NA
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	< 0.0088	< 0.011	< 0.012	NA
4-Nitroaniline	NS	NS	mg/kg	< 0.011	< 0.015	< 0.016	NA
4-Nitrophenol	NS	NS	mg/kg	< 0.049 J	< 0.064	< 0.069	NA
Acenaphthene	100	98	mg/kg	< 0.0084	< 0.011	< 0.012	NA
Acenaphthylene	100	107	mg/kg	< 0.0093	< 0.012	< 0.013	NA
Acetophenone	NS	NS	mg/kg	< 0.0051	< 0.0066	< 0.0072 J	NA
Anthracene	100	1,000	mg/kg	< 0.01	< 0.013	< 0.014	NA
Atrazine	NS	NS	mg/kg	< 0.0057	< 0.0074	< 0.0081	NA
Benzaldehyde	NS	NS	mg/kg	< 0.0067	< 0.0087	< 0.0094	NA
Benzo(a)anthracene	1	1	mg/kg	< 0.0095	< 0.012	< 0.013	NA
Benzo(a)pyrene	1	22	mg/kg	< 0.0089	< 0.012	< 0.013	NA
Benzo(b)fluoranthene	1	1.7	mg/kg	< 0.0097 J	< 0.013	< 0.014	NA
Benzo(g,h,i)perylene	100	1,000	mg/kg	< 0.011	< 0.014	< 0.015	NA
Benzo(k)fluoranthene	3.9	1.7	mg/kg	< 0.011	< 0.014	< 0.015	NA
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.012	< 0.015	< 0.017	NA
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.0088	< 0.011	< 0.012	NA
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.0086	< 0.011	< 0.012	NA
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.026	< 0.033	< 0.036	NA
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.017	< 0.022	< 0.024	NA
Caprolactam	NS	NS	mg/kg	< 0.0092	< 0.012	< 0.013	NA
Carbazole	NS	NS	mg/kg	< 0.013	< 0.017	< 0.019	NA
Chrysene	3.9	1	mg/kg	< 0.0098	< 0.013	< 0.014	NA
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.0099	< 0.013	< 0.014	NA
Dibenzofuran	59	210	mg/kg	< 0.0086	< 0.011	< 0.012	NA
Diethyl phthalate	NS	NS	mg/kg	< 0.0099	< 0.013	< 0.014	NA
Dimethyl phthalate	NS	NS	mg/kg	< 0.01	< 0.013	< 0.014	NA
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0065	< 0.0084	< 0.0091	NA
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.014 J	< 0.018 J	< 0.02	NA
Fluoranthene	100	1,000	mg/kg	< 0.013	< 0.017	0.024 J	NA
Fluorene	100	386	mg/kg	< 0.0095	< 0.012	< 0.013	NA
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.0095	< 0.012	< 0.013	NA
Hexachlorobutadiene	NS	NS	mg/kg	< 0.0081	< 0.01	< 0.011	NA
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.03 J	< 0.039	< 0.042	NA
Hexachloroethane	NS	NS	mg/kg	< 0.0081	< 0.01	< 0.011	NA
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	< 0.01	< 0.013	< 0.014	NA
Isophorone	NS	NS	mg/kg	< 0.0078	< 0.01	< 0.011	NA
Naphthalene	100	12	mg/kg	0.0705	< 0.01	< 0.011	NA
Nitrobenzene	NS	NS	mg/kg	< 0.0084	< 0.011	< 0.012	NA
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0071	< 0.0092	< 0.01	NA
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.017	< 0.023	< 0.024	NA
Pentachlorophenol	6.7	0.8	mg/kg	< 0.05	< 0.065 J	< 0.07 J	NA
Phenanthrene	100	1,000	mg/kg	< 0.013	< 0.017	< 0.019	NA
Phenol	100	0.33	mg/kg	< 0.031	< 0.04	< 0.043	NA
Pyrene	100	1,000	mg/kg	< 0.011	< 0.014	0.0232 J	NA
Total TIC, Semi-Volatile	NS	NS	mg/kg	0	0	0.17 JN	NA

Table 8. Summary of Post Excavation Analytical Results - Paint Sludge Area 3, Operable Unit 1, Ramapo Paint Slud

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P3-WEST-4SW(SOUTH)(3.5-4.0) 3/28/2013	PE-P3-WEST-5SW (2.5-3.0) 4/23/2013	PE-P3-WEST-6SW(1.0-1.5) 5/9/2013	PS-3-EAST-HG 5/29/2013
PCBs							
Aroclor 1016	NS	NS	mg/kg	< 0.0087	< 0.011	< 0.01	NA
Aroclor 1221	NS	NS	mg/kg	< 0.02	< 0.025	< 0.023	NA
Aroclor 1232	NS	NS	mg/kg	< 0.017	< 0.021	< 0.02	NA
Aroclor 1242	NS	NS	mg/kg	< 0.011	< 0.013	< 0.012	NA
Aroclor 1248	NS	NS	mg/kg	< 0.01	< 0.013	< 0.012	NA
Aroclor 1254	NS	NS	mg/kg	< 0.016	< 0.019	< 0.018	NA
Aroclor 1260	NS	NS	mg/kg	< 0.011	< 0.014	< 0.013	NA
Aroclor 1262	NS	NS	mg/kg	NA	< 0.013	< 0.012	NA
Aroclor 1268	NS	NS	mg/kg	NA	< 0.012	< 0.011	NA
Metals							
Aluminum	NS	NS	mg/kg	11700	19300	14400	NA
Antimony	NS	NS	mg/kg	< 0.16	0.94 B	1.7 B	NA
Arsenic	16	16	mg/kg	3.2	4.3	3.8	NA
Barium	400	820	mg/kg	38.9	68.9	64.9	NA
Beryllium	72	47	mg/kg	0.65	1	1.1	NA
Cadmium	4.3	7.5	mg/kg	0.18 B	0.089 B	0.22 B	NA
Calcium	NS	NS	mg/kg	1870	1480	3800	NA
Chromium	NS	NS	mg/kg	23.7	33.5	19.6	NA
Cobalt	NS	NS	mg/kg	9.5	13.5	9.7	NA
Copper	270	1,720	mg/kg	17	15.2	24.9	NA
Iron	NS	NS	mg/kg	20800	30300	24100	NA
Lead	400	450	mg/kg	5.4	9.8	11.6	21.2
Magnesium	NS	NS	mg/kg	4220	6390	4010	NA
Manganese	2,000	2,000	mg/kg	555	1010	330	NA
Mercury	0.81	0.73	mg/kg	0.021 B	0.046	0.035 B	0.052
Nickel	310	130	mg/kg	22.6	23.3	14.9	NA
Potassium	NS	NS	mg/kg	757 B	656 B	1510	NA
Selenium	180	4	mg/kg	< 0.25	2.1 B	0.35 B	NA
Silver	180	8.3	mg/kg	0.17 B	0.22 B	0.4 B	NA
Sodium	NS	NS	mg/kg	146 B	127 B	225 B	NA
Thallium	NS	NS	mg/kg	< 0.23	0.36 B	< 0.27	NA
Vanadium	NS	NS	mg/kg	32.7	48.3	34.7	NA
Zinc	10,000	2,480	mg/kg	41.9	55.1	59.3	NA
Other							
Solids, Percent	NS	NS	%	95.7	77	78.9	89.9

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use.
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater.

Table 9. Summary of Post Excavation Analytical Results, Surface Scrape Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY

Sample ID	375-6.8(b)	375-6.8(b)		S-P2-4B (2.0-2.5)A	SS-P1-EAST-1B (0.5-1.0)	SS-P1-EAST-2B (1.0-1.5)	SS-P2-1B(0.5-1.0)	SS-P2-1B (1.0-1.5)A	SS-P2-1B (1.0-1.5)B
Sample Date	NYS Restricted	NYS Protection		7/24/2013	6/19/2013	6/19/2013	7/15/2013	7/24/2013	7/24/2013
VOCs									
1,1,1-Trichloroethane	100	0.68	mg/kg	NA	< 0.00013	< 0.00011	< 0.00013	NA	NA
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	NA	< 0.00016	< 0.00014	< 0.00016	NA	NA
1,1,2-Trichloroethane	NS	NS	mg/kg	NA	< 0.00022	< 0.00018	< 0.00021	NA	NA
1,1-Dichloroethane	26	0.27	mg/kg	NA	< 0.00017	< 0.00014	< 0.00016	NA	NA
1,1-Dichloroethene	100	0.33	mg/kg	NA	< 0.00032	< 0.00027	< 0.00031	NA	NA
1,2,4-Trichlorobenzene	NS	NS	mg/kg	NA	< 0.00017	< 0.00015	< 0.00017	NA	NA
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	NA	< 0.0011 J	< 0.00093 J	< 0.0011	NA	NA
1,2-Dibromoethane	NS	NS	mg/kg	NA	< 0.00016	< 0.00013	< 0.00015	NA	NA
1,2-Dichlorobenzene	100	1.1	mg/kg	NA	< 0.00024	< 0.0002	< 0.00022	NA	NA
1,2-Dichloroethane	3.1	0.02	mg/kg	NA	< 0.00017	< 0.00014	< 0.00016	NA	NA
1,2-Dichloropropane	NS	NS	mg/kg	NA	< 0.00019	< 0.00016	< 0.00018	NA	NA
1,3-Dichlorobenzene	49	2.4	mg/kg	NA	< 0.00023	< 0.0002	< 0.00022	NA	NA
1,4-Dichlorobenzene	13	1.8	mg/kg	NA	< 0.00022	< 0.00018	< 0.00021	NA	NA
2-Butanone (MEK)	100	0.12	mg/kg	NA	< 0.003	< 0.0025	0.0275	NA	NA
2-Hexanone	NS	NS	mg/kg	NA	< 0.00077	< 0.00065	< 0.00074 J	NA	NA
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	NA	< 0.00093	< 0.00079	< 0.00089	NA	NA
Acetone	100	0.05	mg/kg	NA	< 0.0021	< 0.0018	0.213	NA	NA
Benzene	4.8	0.06	mg/kg	NA	< 0.00015	< 0.00012	< 0.00014	NA	NA
Bromodichloromethane	NS	NS	mg/kg	NA	< 0.00013	< 0.00011	< 0.00012	NA	NA
Bromoform	NS	NS	mg/kg	NA	< 0.00019	< 0.00016	< 0.00018	NA	NA
Bromomethane	NS	NS	mg/kg	NA	< 0.00034	< 0.00029	< 0.00032	NA	NA
Carbon disulfide	NS	NS	mg/kg	NA	< 0.00015	< 0.00012	< 0.00014	NA	NA
Carbon tetrachloride	2.4	0.76	mg/kg	NA	< 0.00017 J	< 0.00014 J	< 0.00016	NA	NA
Chlorobenzene	100	1.1	mg/kg	NA	< 0.00013	< 0.00011	< 0.00013	NA	NA
Chloroethane	NS	NS	mg/kg	NA	< 0.00028	< 0.00024	< 0.00027	NA	NA
Chloroform	49	0.37	mg/kg	NA	< 0.0001	< 0.000087	0.00038 J	NA	NA
Chloromethane	NS	NS	mg/kg	NA	< 0.00023	< 0.0002	< 0.00022	NA	NA
cis-1,2-Dichloroethene	100	0.25	mg/kg	NA	< 0.00023	< 0.00019	< 0.00022	NA	NA
cis-1,3-Dichloropropene	NS	NS	mg/kg	NA	< 0.00017	< 0.00015	< 0.00017	NA	NA
Cyclohexane	NS	NS	mg/kg	NA	< 0.00015	< 0.00013	< 0.00015	NA	NA
Dibromochloromethane	NS	NS	mg/kg	NA	< 0.0002	< 0.00017	< 0.00019	NA	NA
Dichlorodifluoromethane	NS	NS	mg/kg	NA	< 0.00028	< 0.00024	< 0.00027	NA	NA
Ethylbenzene	41	1	mg/kg	NA	< 0.00033	< 0.00028	< 0.00031	NA	NA
Freon 113	NS	NS	mg/kg	NA	< 0.00053 J	< 0.00045 J	< 0.00051	NA	NA
Isopropylbenzene	NS	NS	mg/kg	NA	< 0.000092	< 0.000078	< 0.000088	NA	NA
Methyl Acetate	NS	NS	mg/kg	NA	< 0.0032	< 0.0027	< 0.0031	NA	NA
Methyl Tert Butyl Ether	100	0.93	mg/kg	NA	< 0.00029	< 0.00025	< 0.00028	NA	NA
Methylcyclohexane	NS	NS	mg/kg	NA	< 0.00021	< 0.00018	< 0.0002	NA	NA
Methylene chloride	100	0.05	mg/kg	NA	0.0031 J	0.0022 J	0.0032 J	NA	NA
Styrene	NS	NS	mg/kg	NA	< 0.00011	< 0.000096	< 0.00011	NA	NA
Tetrachloroethene	19	1.3	mg/kg	NA	< 0.00021	< 0.00018	< 0.0002	NA	NA
Toluene	100	0.7	mg/kg	NA	< 0.00013	< 0.00011	< 0.00012	NA	NA
trans-1,2-Dichloroethene	100	0.19	mg/kg	NA	< 0.0003	< 0.00025	< 0.00028	NA	NA
trans-1,3-Dichloropropene	NS	NS	mg/kg	NA	< 0.00019	< 0.00016	< 0.00018	NA	NA
Trichloroethene	21	0.47	mg/kg	NA	< 0.00022	< 0.00018	< 0.00021	NA	NA
Trichlorofluoromethane	NS	NS	mg/kg	NA	< 0.00037	< 0.00031	< 0.00035	NA	NA
Vinyl chloride	0.9	0.02	mg/kg	NA	< 0.00018	< 0.00015	< 0.00017	NA	NA
Xylene (total)	100	1.6	mg/kg	NA	< 0.00017	< 0.00015	< 0.00017	NA	NA
Total TIC, Volatile	NS	NS	mg/kg	0	0.084 JN	0.018 JN	0	NA	NA
SVOCs									
1,1'-Biphenyl	NS	NS	mg/kg	NA	< 0.005	< 0.004	< 0.0045	NA	NA
2,4,5-Trichlorophenol	NS	NS	mg/kg	NA	< 0.05	< 0.04	< 0.045	NA	NA
2,4,6-Trichlorophenol	NS	NS	mg/kg	NA	< 0.04	< 0.033	< 0.037	NA	NA
2,4-Dichloropheno	NS	NS	mg/kg	NA	< 0.069	< 0.056	< 0.063	NA	NA
2,4-Dimethylpheno	NS	NS	mg/kg	NA	< 0.072	< 0.058	< 0.065	NA	NA

Table 9. Summary of Post Excavation Analytical Results, Surface Scrape Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY

Sample ID	375-6.8(b)	375-6.8(b)		S-P2-4B (2.0-2.5)A	SS-P1-EAST-1B (0.5-1.0)	SS-P1-EAST-2B (1.0-1.5)	SS-P2-1B(0.5-1.0)	SS-P2-1B (1.0-1.5)A	SS-P2-1B (1.0-1.5)B
Sample Date	NYS Restricted	NYS Protection		7/24/2013	6/19/2013	6/19/2013	7/15/2013	7/24/2013	7/24/2013
SVOCs cont.									
2,4-Dinitropheno	NS	NS	mg/kg	NA	< 0.052 J	< 0.042 J	< 0.048	NA	NA
2,4-Dinitrotoluene	NS	NS	mg/kg	NA	< 0.019 J	< 0.015 J	< 0.017	NA	NA
2,6-Dinitrotoluene	NS	NS	mg/kg	NA	< 0.016 J	< 0.013 J	< 0.015	NA	NA
2-Chloronaphthalene	NS	NS	mg/kg	NA	< 0.013	< 0.011 J	< 0.012	NA	NA
2-Chloropheno	NS	NS	mg/kg	NA	< 0.043	< 0.035	< 0.039	NA	NA
2-Methylnaphthalene	NS	NS	mg/kg	NA	< 0.024	< 0.019	< 0.022	NA	NA
2-Methylpheno	100	0.33	mg/kg	NA	< 0.049	< 0.04	< 0.044	NA	NA
2-Nitroaniline	NS	NS	mg/kg	NA	< 0.019	< 0.015	< 0.017	NA	NA
2-Nitrophenol	NS	NS	mg/kg	NA	< 0.045 J	< 0.037 J	< 0.041	NA	NA
3&4-Methylpheno	NS	NS	mg/kg	NA	< 0.054	< 0.044	< 0.049	NA	NA
3,3'-Dichlorobenzidine	NS	NS	mg/kg	NA	< 0.011	< 0.0088 J	< 0.0099	NA	NA
3-Nitroaniline	NS	NS	mg/kg	NA	< 0.017	< 0.014	< 0.016	NA	NA
4,6-Dinitro-o-cresol	NS	NS	mg/kg	NA	< 0.052 J	< 0.042 J	< 0.048	NA	NA
4-Bromophenyl phenyl ether	NS	NS	mg/kg	NA	< 0.015	< 0.013	< 0.014	NA	NA
4-Chloro-3-methyl pheno	NS	NS	mg/kg	NA	< 0.043	< 0.035	< 0.039	NA	NA
4-Chloroaniline	NS	NS	mg/kg	NA	< 0.014	< 0.011 J	< 0.012	NA	NA
4-Chlorophenyl phenyl ethe	NS	NS	mg/kg	NA	< 0.013	< 0.01	< 0.012	NA	NA
4-Nitroaniline	NS	NS	mg/kg	NA	< 0.017	< 0.014	< 0.015	NA	NA
4-Nitrophenol	NS	NS	mg/kg	NA	< 0.072 J	< 0.059 J	< 0.066 J	NA	NA
Acenaphthene	100	98	mg/kg	NA	< 0.012	< 0.01	< 0.011	NA	NA
Acenaphthylene	100	107	mg/kg	NA	< 0.014	< 0.011	0.0453	NA	NA
Acetophenone	NS	NS	mg/kg	NA	< 0.0075	< 0.0061 J	< 0.0069	NA	NA
Anthracene	100	1,000	mg/kg	NA	< 0.015	< 0.012	0.0757	NA	NA
Atrazine	NS	NS	mg/kg	NA	< 0.0084	< 0.0068	< 0.0077	NA	NA
Benzaldehyde	NS	NS	mg/kg	NA	< 0.0098 J	< 0.008 J	< 0.009	NA	NA
Benzo(a)anthracene	1	1	mg/kg	NA	0.0697	0.019 J	0.224	NA	NA
Benzo(a)pyrene	1	22	mg/kg	NA	0.0772	< 0.011	0.195	NA	NA
Benzo(b)fluoranthene	1	1.7	mg/kg	NA	0.103	< 0.012	0.286	NA	NA
Benzo(g,h,i)perylene	100	1,000	mg/kg	NA	0.0424 J	< 0.013	0.15	NA	NA
Benzo(k)fluoranthene	3.9	1.7	mg/kg	NA	0.0395 J	< 0.013	0.0822	NA	NA
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	NA	< 0.017	< 0.014	< 0.016	NA	NA
bis(2-Chloroethyl)ether	NS	NS	mg/kg	NA	< 0.013	< 0.01 J	< 0.012	NA	NA
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	NA	< 0.013	< 0.01 J	< 0.012	NA	NA
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	NA	0.056 J	< 0.031	0.122	NA	NA
Butyl benzyl phthalate	NS	NS	mg/kg	NA	< 0.025	< 0.02	< 0.023	NA	NA
Caprolactam	NS	NS	mg/kg	NA	< 0.013	< 0.011	< 0.012	NA	NA
Carbazole	NS	NS	mg/kg	NA	< 0.02	< 0.016	< 0.018	NA	NA
Chrysene	3.9	1	mg/kg	NA	0.086	0.019 J	0.266	NA	NA
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	NA	< 0.015	< 0.012	0.04	NA	NA
Dibenzofuran	59	210	mg/kg	NA	< 0.013	< 0.01	< 0.012	NA	NA
Diethyl phthalate	NS	NS	mg/kg	NA	< 0.015	< 0.012	< 0.013	NA	NA
Dimethyl phthalate	NS	NS	mg/kg	NA	< 0.015	< 0.012	< 0.014	NA	NA
Di-n-butyl phthalate	NS	NS	mg/kg	NA	< 0.0095	< 0.0077	< 0.0087	NA	NA
Di-n-octyl phthalate	NS	NS	mg/kg	NA	< 0.021 J	< 0.017 J	< 0.019	NA	NA
Fluoranthene	100	1,000	mg/kg	NA	0.142	0.0275 J	0.411	NA	NA
Fluorene	100	386	mg/kg	NA	< 0.014	< 0.011	< 0.013	NA	NA
Hexachlorobenzene	1.2	3.2	mg/kg	NA	< 0.014	< 0.011	< 0.013	NA	NA
Hexachlorobutadiene	NS	NS	mg/kg	NA	< 0.012	< 0.0096	< 0.011	NA	NA
Hexachlorocyclopentadiene	NS	NS	mg/kg	NA	< 0.044 J	< 0.035 J	< 0.04 J	NA	NA
Hexachloroethane	NS	NS	mg/kg	NA	< 0.012	< 0.0096	< 0.011	NA	NA
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	NA	0.0477	< 0.012	0.135	NA	NA
Isophorone	NS	NS	mg/kg	NA	< 0.011	< 0.0093	< 0.01	NA	NA
Naphthalene	100	12	mg/kg	NA	< 0.012	< 0.0095	< 0.011	NA	NA
Nitrobenzene	NS	NS	mg/kg	NA	< 0.012	< 0.01	< 0.011	NA	NA
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	NA	< 0.01	< 0.0085	< 0.0095	NA	NA
N-Nitrosodiphenylamine	NS	NS	mg/kg	NA	< 0.025	< 0.021	< 0.023	NA	NA
Pentachloropheno	6.7	0.8	mg/kg	NA	< 0.073 J	< 0.059 J	< 0.067	NA	NA
Phenanthrene	100	1,000	mg/kg	NA	0.0571	< 0.016	0.168	NA	NA
Phenol	100	0.33	mg/kg	NA	< 0.045	< 0.036 J	< 0.041	NA	NA
Pyrene	100	1,000	mg/kg	NA	0.133	0.0291 J	0.403	NA	NA
Total TIC, Semi-Volatile	NS	NS	mg/kg	NA	0.93 JN	0	14 JN	NA	NA

Table 9. Summary of Post Excavation Analytical Results, Surface Scrape Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		S-P2-4B (2.0-2.5)A 7/24/2013	SS-P1-EAST-1B (0.5-1.0) 6/19/2013	SS-P1-EAST-2B (1.0-1.5) 6/19/2013	SS-P2-1B(0.5-1.0) 7/15/2013	SS-P2-1B (1.0-1.5)A 7/24/2013	SS-P2-1B (1.0-1.5)B 7/24/2013
PCBs									
Aroclor 1016	NS	NS	mg/kg	NA	< 0.011	< 0.01	< 0.0099	NA	NA
Aroclor 1221	NS	NS	mg/kg	NA	< 0.026	< 0.023	< 0.023	NA	NA
Aroclor 1232	NS	NS	mg/kg	NA	< 0.022	< 0.019	< 0.019	NA	NA
Aroclor 1242	NS	NS	mg/kg	NA	< 0.014	< 0.012	< 0.012	NA	NA
Aroclor 1248	NS	NS	mg/kg	NA	< 0.013	< 0.012	< 0.012	NA	NA
Aroclor 1254	NS	NS	mg/kg	NA	< 0.02	< 0.018	< 0.018	NA	NA
Aroclor 1260	NS	NS	mg/kg	NA	< 0.014	< 0.013	< 0.013	NA	NA
Aroclor 1262	NS	NS	mg/kg	NA	< 0.014	< 0.012	< 0.012	NA	NA
Aroclor 1268	NS	NS	mg/kg	NA	< 0.013	< 0.011	< 0.011	NA	NA
Metals									
Aluminum	NS	NS	mg/kg	NA	16700	12100	14900	NA	NA
Antimony	NS	NS	mg/kg	NA	0.5 B	< 0.27	11	NA	NA
Arsenic	16	16	mg/kg	NA	5.7	4	8.8	NA	NA
Barium	400	820	mg/kg	NA	92.3	56.4	131	NA	NA
Beryllium	72	47	mg/kg	NA	0.87	0.64	1	NA	NA
Cadmium	4.3	7.5	mg/kg	NA	0.26 B	0.1 B	0.25 B	NA	NA
Calcium	NS	NS	mg/kg	NA	3230	2540	3960	NA	NA
Chromium	NS	NS	mg/kg	NA	23.2	19.2	31.5	NA	NA
Cobalt	NS	NS	mg/kg	NA	11.6	8	9.4	NA	NA
Copper	270	1,720	mg/kg	NA	36.7	23	44.6	NA	NA
Iron	NS	NS	mg/kg	NA	26400	20800	28200	NA	NA
Lead	400	450	mg/kg	19.3	39.9	14.1	763	236	13.2
Magnesium	NS	NS	mg/kg	NA	4730	3440	4180	NA	NA
Manganese	2,000	2,000	mg/kg	NA	597	465	595	NA	NA
Mercury	0.81	0.73	mg/kg	NA	0.044	0.024 B	0.092	NA	NA
Nickel	310	130	mg/kg	NA	21.8	15.9	18.8	NA	NA
Potassium	NS	NS	mg/kg	NA	2120	1450	1920	NA	NA
Selenium	180	4	mg/kg	NA	< 0.33	0.34 B	< 0.32	NA	NA
Silver	180	8.3	mg/kg	NA	0.78	0.48 B	< 0.13	NA	NA
Sodium	NS	NS	mg/kg	NA	265 B	211 B	275 B	NA	NA
Thallium	NS	NS	mg/kg	NA	< 0.38	< 0.33	< 0.36	NA	NA
Vanadium	NS	NS	mg/kg	NA	36.3	30	38.9	NA	NA
Zinc	10,000	2,480	mg/kg	NA	76.6	42.6	140	NA	NA
Other									
Solids, Percent	NS	NS	%	79.5	77.3	85	78	83	85.7

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination
B	Result is between the method detection limit and the reporting limit
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater

Table 9. Summary of Post Excavation Analytical Results, Surface Scrape Operable Unit 1, Ramapo Paint Sludg

Sample ID	375-6.8(b)	375-6.8(b)		SS-P2-2B(0.5-1.0)	SS-P2-3B(1.0-1.5)	SS-P2-4B (1.0-1.5)	SS-P2-4B (2.0-2.5)B	SS-P2-5B (0.5-1.0)	SS-P2-6B (1.0-1.5)
Sample Date	NYS Restricted	NYS Protection		7/15/2013	7/15/2013	7/17/2013	7/24/2013	7/16/2013	7/17/2013
VOCS									
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00012	< 0.00013	< 0.00013	NA	< 0.00013	< 0.00012
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00015	< 0.00016	< 0.00016	NA	< 0.00016	< 0.00015
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00019	< 0.00021	< 0.00022	NA	< 0.00021	< 0.00019
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00015	< 0.00017	< 0.00017	NA	< 0.00016	< 0.00015
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00029	< 0.00032	< 0.00032	NA	< 0.00031	< 0.00029
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00016	< 0.00017	< 0.00017	NA	< 0.00017	< 0.00016
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.00099	< 0.0011	< 0.0011	NA	< 0.0011	< 0.001
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00014	< 0.00016	< 0.00016	NA	< 0.00015	< 0.00014
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.00021	< 0.00023	< 0.00024	NA	< 0.00022	< 0.00021
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00015	< 0.00017 J	< 0.00017	NA	< 0.00016	< 0.00015
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00017	< 0.00019	< 0.00019	NA	< 0.00018	< 0.00017
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.00021	< 0.00023	< 0.00023	NA	< 0.00022	< 0.00021
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.0002	< 0.00022	< 0.00022	NA	< 0.00021	< 0.0002
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0027	< 0.0029	< 0.003	NA	< 0.0028	< 0.0027
2-Hexanone	NS	NS	mg/kg	< 0.00069 J	< 0.00076	< 0.00078	NA	< 0.00074	< 0.0007
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.00084	< 0.00092	< 0.00094	NA	< 0.00089	< 0.00084
Acetone	100	0.05	mg/kg	0.0315	< 0.0021	< 0.0021	NA	< 0.002	< 0.0019
Benzene	4.8	0.06	mg/kg	< 0.00013	< 0.00015	< 0.00015	NA	< 0.00014	< 0.00013
Bromodichloromethane	NS	NS	mg/kg	< 0.00012	< 0.00013	< 0.00013	NA	< 0.00012	< 0.00012
Bromoform	NS	NS	mg/kg	< 0.00017	< 0.00019	< 0.00019	NA	< 0.00018	< 0.00017
Bromomethane	NS	NS	mg/kg	< 0.0003	< 0.00034	< 0.00034	NA	< 0.00032	< 0.00031
Carbon disulfide	NS	NS	mg/kg	< 0.00013	< 0.00014	< 0.00015	NA	< 0.00014	< 0.00013
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00015	< 0.00016	< 0.00017	NA	< 0.00016	< 0.00015
Chlorobenzene	100	1.1	mg/kg	< 0.00012	< 0.00013	< 0.00013	NA	< 0.00013	< 0.00012
Chloroethane	NS	NS	mg/kg	< 0.00025	< 0.00028	< 0.00028	NA	< 0.00027	< 0.00025
Chloroform	49	0.37	mg/kg	< 0.000092	< 0.0001	< 0.0001	NA	< 0.000098	< 0.000093
Chloromethane	NS	NS	mg/kg	< 0.00021	< 0.00023	< 0.00023	NA	< 0.00022 J	< 0.00021
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.0002	< 0.00022	< 0.00023	NA	< 0.00022	< 0.0002
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00016	< 0.00017	< 0.00017	NA	< 0.00017	< 0.00016
Cyclohexane	NS	NS	mg/kg	< 0.00014	< 0.00015	< 0.00015	NA	< 0.00015	< 0.00014
Dibromochloromethane	NS	NS	mg/kg	< 0.00018	< 0.0002	< 0.0002	NA	< 0.00019	< 0.00018
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00025	< 0.00028	< 0.00028	NA	< 0.00027 J	< 0.00026
Ethylbenzene	41	1	mg/kg	< 0.00029	< 0.00032	< 0.00033	NA	< 0.00031	< 0.00029
Freon 113	NS	NS	mg/kg	< 0.00048	< 0.00053	< 0.00054	NA	< 0.00051	< 0.00048
Isopropylbenzene	NS	NS	mg/kg	< 0.000083	< 0.000091	< 0.000093	NA	< 0.000088	< 0.000083
Methyl Acetate	NS	NS	mg/kg	< 0.0029	< 0.0032	< 0.0032	NA	< 0.0031	< 0.0029
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00026	< 0.00029	< 0.00029	NA	< 0.00028	< 0.00026
Methylcyclohexane	NS	NS	mg/kg	< 0.00019	< 0.00021	< 0.00021	NA	< 0.0002	< 0.00019
Methylene chloride	100	0.05	mg/kg	0.0033 J	0.0026 J	0.0025 J	NA	0.0042 J	0.0026 J
Styrene	NS	NS	mg/kg	< 0.0001	< 0.00011	< 0.00011	NA	< 0.00011	< 0.0001
Tetrachloroethene	19	1.3	mg/kg	< 0.00019	< 0.00021	< 0.00021	NA	< 0.0002	< 0.00019
Toluene	100	0.7	mg/kg	< 0.00012	< 0.00013	< 0.00013	NA	< 0.00012	0.0003 J
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00027	< 0.00029	< 0.0003	NA	< 0.00028	< 0.00027
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00017	< 0.00019	< 0.00019	NA	< 0.00018	< 0.00017
Trichloroethene	21	0.47	mg/kg	< 0.00019	< 0.00021	< 0.00022	NA	< 0.00021	< 0.00019
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00033	< 0.00037	< 0.00037	NA	< 0.00035	< 0.00033
Vinyl chloride	0.9	0.02	mg/kg	< 0.00016	< 0.00018	< 0.00018	NA	< 0.00017	< 0.00016
Xylene (total)	100	1.6	mg/kg	< 0.00016	< 0.00017	< 0.00017	NA	< 0.00017	< 0.00016
Total TIC, Volatile	NS	NS	mg/kg	0	0	0	NA	0	0
SVOCS									
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0046	< 0.0046	< 0.0046	NA	< 0.0043	< 0.0039
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.046	< 0.046	< 0.046	NA	< 0.043	< 0.039
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.038	< 0.037	< 0.037	NA	< 0.035	< 0.032
2,4-Dichloropheno	NS	NS	mg/kg	< 0.064	< 0.064	< 0.064	NA	< 0.06	< 0.054
2,4-Dimethylpheno	NS	NS	mg/kg	< 0.067	< 0.067	< 0.066	NA	< 0.062	< 0.057

Table 9. Summary of Post Excavation Analytical Results, Surface Scrape Operable Unit 1, Ramapo Paint Sludg

Sample ID	375-6.8(b)	375-6.8(b)		SS-P2-2B(0.5-1.0)	SS-P2-3B(1.0-1.5)	SS-P2-4B (1.0-1.5)	SS-P2-4B (2.0-2.5)B	SS-P2-5B (0.5-1.0)	SS-P2-6B (1.0-1.5)
Sample Date	NYS Restricted	NYS Protection		7/15/2013	7/15/2013	7/17/2013	7/24/2013	7/16/2013	7/17/2013
SVOCs cont.									
2,4-Dinitropheno	NS	NS	mg/kg	< 0.049	< 0.049	< 0.048	NA	< 0.045 J	< 0.041
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.017	< 0.017	< 0.017	NA	< 0.016	< 0.015
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.015	< 0.015	< 0.015	NA	< 0.014	< 0.013
2-Chloronaphthalene	NS	NS	mg/kg	< 0.012	< 0.012	< 0.012	NA	< 0.011	< 0.01
2-Chloropheno	NS	NS	mg/kg	< 0.04	< 0.04	< 0.04	NA	< 0.037	< 0.034
2-Methylnaphthalene	NS	NS	mg/kg	< 0.022	< 0.022	< 0.022	NA	< 0.021	< 0.019
2-Methylpheno	100	0.33	mg/kg	< 0.046	< 0.045	< 0.045	NA	< 0.042	< 0.039
2-Nitroaniline	NS	NS	mg/kg	< 0.018	< 0.018	< 0.017	NA	< 0.016	< 0.015
2-Nitrophenol	NS	NS	mg/kg	< 0.042	< 0.042	< 0.042	NA	< 0.039	< 0.036
3&4-Methylpheno	NS	NS	mg/kg	< 0.051	< 0.051	< 0.05	NA	< 0.047	< 0.043
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.01	< 0.01	< 0.01	NA	< 0.0094	< 0.0086
3-Nitroaniline	NS	NS	mg/kg	< 0.016	< 0.016	< 0.016	NA	< 0.015	< 0.014
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.049	< 0.049	< 0.048 J	NA	< 0.045 J	< 0.041 J
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.015	< 0.014	< 0.014	NA	< 0.013	< 0.012
4-Chloro-3-methyl pheno	NS	NS	mg/kg	< 0.04	< 0.04	< 0.039	NA	< 0.037	< 0.034
4-Chloroaniline	NS	NS	mg/kg	< 0.013	< 0.013	< 0.013	NA	< 0.012	< 0.011
4-Chlorophenyl phenyl ethe	NS	NS	mg/kg	< 0.012	< 0.012	< 0.012	NA	< 0.011	< 0.01
4-Nitroaniline	NS	NS	mg/kg	< 0.016	< 0.016	< 0.015	NA	< 0.014	< 0.013
4-Nitrophenol	NS	NS	mg/kg	< 0.068 J	< 0.067 J	< 0.067	NA	< 0.063	< 0.057
Acenaphthene	100	98	mg/kg	< 0.012	< 0.012	< 0.011	NA	< 0.011	< 0.0098
Acenaphthylene	100	107	mg/kg	< 0.013	< 0.013	< 0.013	NA	< 0.012	< 0.011
Acetophenone	NS	NS	mg/kg	< 0.007	< 0.007	< 0.0069	NA	< 0.0065	< 0.0059
Anthracene	100	1,000	mg/kg	< 0.014	< 0.014	< 0.014	NA	0.0203 J	< 0.012
Atrazine	NS	NS	mg/kg	< 0.0079	< 0.0079	< 0.0078	NA	< 0.0073 J	< 0.0067
Benzaldehyde	NS	NS	mg/kg	< 0.0092	< 0.0092	< 0.0091	NA	< 0.0085	< 0.0078
Benzo(a)anthracene	1	1	mg/kg	0.0377 J	0.0213 J	0.0187 J	NA	0.0548	< 0.011
Benzo(a)pyrene	1	22	mg/kg	0.0348 J	0.0165 J	< 0.012	NA	0.0429	< 0.01
Benzo(b)fluoranthene	1	1.7	mg/kg	0.0522	0.0167 J	< 0.013 J	NA	0.062	< 0.011 J
Benzo(g,h,i)perylene	100	1,000	mg/kg	0.0277 J	< 0.015	< 0.015	NA	0.0332 J	< 0.013
Benzo(k)fluoranthene	3.9	1.7	mg/kg	< 0.015	< 0.015	< 0.015	NA	0.026 J	< 0.013
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.016	< 0.016	< 0.016	NA	< 0.015	< 0.014
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.012	< 0.012	< 0.012	NA	< 0.011	< 0.01
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.012	< 0.012	< 0.012	NA	< 0.011	< 0.01
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	0.0421 J	< 0.035	< 0.035	NA	< 0.033	< 0.03
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.023	< 0.023	< 0.023	NA	< 0.021	< 0.02
Caprolactam	NS	NS	mg/kg	< 0.013	< 0.013	< 0.012	NA	< 0.012	< 0.011
Carbazole	NS	NS	mg/kg	< 0.019	< 0.018	< 0.018	NA	< 0.017	< 0.016
Chrysene	3.9	1	mg/kg	0.0445	0.023 J	0.0182 J	NA	0.0731	< 0.011
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.014	< 0.014	< 0.013	NA	< 0.013	< 0.012
Dibenzofuran	59	210	mg/kg	< 0.012	< 0.012	< 0.012	NA	< 0.011	< 0.01
Diethyl phthalate	NS	NS	mg/kg	< 0.014	< 0.014	< 0.013	NA	< 0.013	< 0.012
Dimethyl phthalate	NS	NS	mg/kg	< 0.014	< 0.014	< 0.014	NA	< 0.013	< 0.012
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0089	< 0.0089	< 0.0088	NA	< 0.0082	< 0.0075
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.019	< 0.019	< 0.019	NA	< 0.018	< 0.016
Fluoranthene	100	1,000	mg/kg	0.0721	0.0298 J	0.0293 J	NA	0.107	< 0.015
Fluorene	100	386	mg/kg	< 0.013	< 0.013	< 0.013	NA	< 0.012	< 0.011
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.013	< 0.013	< 0.013	NA	< 0.012	< 0.011
Hexachlorobutadiene	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	NA	< 0.01	< 0.0094
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.041 J	< 0.041 J	< 0.04 J	NA	< 0.038	< 0.034 J
Hexachloroethane	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	NA	< 0.01	< 0.0094
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	0.0253 J	< 0.014	< 0.014	NA	0.0359 J	< 0.012
Isophorone	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	NA	< 0.01	< 0.0091
Naphthalene	100	12	mg/kg	< 0.011	< 0.011	< 0.011	NA	0.0169 J	< 0.0092
Nitrobenzene	NS	NS	mg/kg	< 0.012	< 0.012	< 0.011	NA	< 0.011	< 0.0098
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0098	< 0.0097	< 0.0096	NA	< 0.009	< 0.0082
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.024	< 0.024	< 0.024	NA	< 0.022	< 0.02
Pentachloropheno	6.7	0.8	mg/kg	< 0.068	< 0.068	< 0.067	NA	< 0.063	< 0.058
Phenanthrene	100	1,000	mg/kg	0.0417	< 0.018	0.0185 J	NA	0.116	< 0.015
Phenol	100	0.33	mg/kg	< 0.042	< 0.042	< 0.041	NA	< 0.039	< 0.035
Pyrene	100	1,000	mg/kg	0.0767	0.0322 J	0.031 J	NA	0.113	< 0.013
Total TIC, Semi-Volatile	NS	NS	mg/kg	2.57 JN	0.77 JN	0.34 JN	NA	1.28 JN	0.38 JN

Table 9. Summary of Post Excavation Analytical Results, Surface Scrape Operable Unit 1, Ramapo Paint Sludg

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		SS-P2-2B(0.5-1.0) 7/15/2013	SS-P2-3B(1.0-1.5) 7/15/2013	SS-P2-4B (1.0-1.5) 7/17/2013	SS-P2-4B (2.0-2.5)B 7/24/2013	SS-P2-5B (0.5-1.0) 7/16/2013	SS-P2-6B (1.0-1.5) 7/17/2013
PCBs									
Aroclor 1016	NS	NS	mg/kg	< 0.0099	< 0.0097	< 0.01	NA	< 0.0095	< 0.0084
Aroclor 1221	NS	NS	mg/kg	< 0.023	< 0.023	< 0.023	NA	< 0.022	< 0.02
Aroclor 1232	NS	NS	mg/kg	< 0.019	< 0.019	< 0.02	NA	< 0.018	< 0.016
Aroclor 1242	NS	NS	mg/kg	< 0.012	< 0.012	< 0.012	NA	< 0.012	< 0.01
Aroclor 1248	NS	NS	mg/kg	< 0.012	< 0.011	< 0.012	NA	< 0.011	< 0.0099
Aroclor 1254	NS	NS	mg/kg	< 0.018	< 0.018	< 0.018	NA	< 0.017	< 0.015
Aroclor 1260	NS	NS	mg/kg	< 0.013	< 0.012	< 0.013	NA	< 0.012	< 0.011
Aroclor 1262	NS	NS	mg/kg	< 0.012	< 0.012	< 0.012	NA	< 0.012	< 0.01
Aroclor 1268	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	NA	< 0.011	< 0.0095
Metals									
Aluminum	NS	NS	mg/kg	12600	13700	15500	NA	9440	11400
Antimony	NS	NS	mg/kg	1.1 B	0.53 B	16.9 J	NA	0.57 J	0.48 J
Arsenic	16	16	mg/kg	4.5	4.4	10.2	NA	4.7	3.8
Barium	400	820	mg/kg	61.3	66.5	90.6 J	NA	36.1 J	40 J
Beryllium	72	47	mg/kg	0.85	1	1.1	NA	0.62	0.78
Cadmium	4.3	7.5	mg/kg	< 0.083	< 0.09	< 0.082	NA	< 0.082	< 0.077
Calcium	NS	NS	mg/kg	2000	2680	2890 J	NA	966 J	934 J
Chromium	NS	NS	mg/kg	21.2	22	22.1 J	NA	18.1 J	19.2 J
Cobalt	NS	NS	mg/kg	8.9	8.9	9.9 J	NA	7.2 J	8.9 J
Copper	270	1,720	mg/kg	30.5	23.2	33.1 J	NA	23.9 J	22.4 J
Iron	NS	NS	mg/kg	23300	24500	25300 J	NA	21100 J	23000 J
Lead	400	450	mg/kg	75.2	24.2	1230	10.7	38.2	13.2
Magnesium	NS	NS	mg/kg	3520	3640	4270 J	NA	2720 J	4180 J
Manganese	2,000	2,000	mg/kg	531	531	491 J	NA	534 J	531 J
Mercury	0.81	0.73	mg/kg	0.11	0.069	< 0.0075 J	NA	0.04 J	< 0.006 J
Nickel	310	130	mg/kg	16.8	16.6	19.1	NA	13.4	16.7
Potassium	NS	NS	mg/kg	1280	1400	1840	NA	731 B	1050 B
Selenium	180	4	mg/kg	< 0.3	< 0.33	< 0.3	NA	< 0.3	< 0.28
Silver	180	8.3	mg/kg	0.12 B	0.14 B	0.23 B	NA	0.17 B	0.12 B
Sodium	NS	NS	mg/kg	154 B	208 B	247 J	NA	86.9 B	79.2 B
Thallium	NS	NS	mg/kg	< 0.34	< 0.37	< 0.34	NA	< 0.34	< 0.32
Vanadium	NS	NS	mg/kg	32.4	35.5	35.1 J	NA	30.3 J	31.9 J
Zinc	10,000	2,480	mg/kg	78.7	48.4	94.4 J	NA	43 J	53.3 J
Other									
Solids, Percent	NS	NS	%	83	81.4	83.4	87.6	85.9	91.1

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination
B	Result is between the method detection limit and the reporting limit
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater

Table 9. Summary of Post Excavation Analytical Results, Surface Scrape Operable Unit 1, Ramapo Paint Sludg

Sample ID	375-6.8(b)	375-6.8(b)		SS-P2-7B (0.5-1.0)	SS-P2-7B (1.0-1.5)A	SS-P2-7B (1.0-1.5)B	DUP (072413)	SS-P2-8B (0.5-1.0)	SS-P2-9B (1.0-1.5)
Sample Date	NYS Restricted	NYS Protection		7/16/2013	7/24/2013	7/24/2013	7/24/2013	7/16/2013	7/17/2013
VOCS									
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00012	NA	NA	NA	< 0.00011	< 0.00012
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00015	NA	NA	NA	< 0.00014	< 0.00015
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.0002	NA	NA	NA	< 0.00019	< 0.0002
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00016	NA	NA	NA	< 0.00015	< 0.00016
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00029	NA	NA	NA	< 0.00028	< 0.00029
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00016	NA	NA	NA	< 0.00015	< 0.00016
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.001	NA	NA	NA	< 0.00096	< 0.001
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00015	NA	NA	NA	< 0.00014	< 0.00015
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.00022	NA	NA	NA	< 0.0002	< 0.00022
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00015	NA	NA	NA	< 0.00015	< 0.00015
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00018	NA	NA	NA	< 0.00017	< 0.00018
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.00021	NA	NA	NA	< 0.0002	< 0.00021
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.0002	NA	NA	NA	< 0.00019	< 0.0002
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0027	NA	NA	NA	< 0.0026	< 0.0027
2-Hexanone	NS	NS	mg/kg	< 0.00071	NA	NA	NA	< 0.00067	< 0.00071
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.00086	NA	NA	NA	< 0.00081	< 0.00086
Acetone	100	0.05	mg/kg	< 0.0019	NA	NA	NA	< 0.0018	< 0.0019
Benzene	4.8	0.06	mg/kg	< 0.00014	NA	NA	NA	< 0.00013	< 0.00014
Bromodichloromethane	NS	NS	mg/kg	< 0.00012	NA	NA	NA	< 0.00011	< 0.00012
Bromoform	NS	NS	mg/kg	< 0.00017	NA	NA	NA	< 0.00016	< 0.00017
Bromomethane	NS	NS	mg/kg	< 0.00031	NA	NA	NA	< 0.00029	< 0.00031
Carbon disulfide	NS	NS	mg/kg	< 0.00013	NA	NA	NA	< 0.00013	< 0.00013
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00015	NA	NA	NA	< 0.00014	< 0.00015
Chlorobenzene	100	1.1	mg/kg	< 0.00012	NA	NA	NA	< 0.00012	< 0.00012
Chloroethane	NS	NS	mg/kg	< 0.00026	NA	NA	NA	< 0.00025	< 0.00026
Chloroform	49	0.37	mg/kg	< 0.000094	NA	NA	NA	< 0.000089	< 0.000095
Chloromethane	NS	NS	mg/kg	< 0.00021 J	NA	NA	NA	< 0.0002 J	< 0.00021
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00021	NA	NA	NA	< 0.0002	< 0.00021
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00016	NA	NA	NA	< 0.00015	< 0.00016
Cyclohexane	NS	NS	mg/kg	< 0.00014	NA	NA	NA	< 0.00013	< 0.00014
Dibromochloromethane	NS	NS	mg/kg	< 0.00019	NA	NA	NA	< 0.00018	< 0.00019
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00026 J	NA	NA	NA	< 0.00025 J	< 0.00026
Ethylbenzene	41	1	mg/kg	< 0.0003	NA	NA	NA	< 0.00028	< 0.0003
Freon 113	NS	NS	mg/kg	< 0.00049	NA	NA	NA	< 0.00046	< 0.00049
Isopropylbenzene	NS	NS	mg/kg	< 0.000085	NA	NA	NA	< 0.00008	< 0.000085
Methyl Acetate	NS	NS	mg/kg	< 0.003	NA	NA	NA	< 0.0028	< 0.003
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00027	NA	NA	NA	< 0.00025	< 0.00027
Methylcyclohexane	NS	NS	mg/kg	< 0.00019	NA	NA	NA	< 0.00018	< 0.00019
Methylene chloride	100	0.05	mg/kg	0.003 J	NA	NA	NA	< 0.0014	0.0028 J
Styrene	NS	NS	mg/kg	< 0.0001	NA	NA	NA	< 0.000099	< 0.0001
Tetrachloroethene	19	1.3	mg/kg	< 0.0002	NA	NA	NA	< 0.00019	< 0.0002
Toluene	100	0.7	mg/kg	< 0.00012	NA	NA	NA	< 0.00011	< 0.00012
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00027	NA	NA	NA	< 0.00026	< 0.00027
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00018	NA	NA	NA	< 0.00017	< 0.00018
Trichloroethene	21	0.47	mg/kg	< 0.0002	NA	NA	NA	< 0.00019	< 0.0002
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00034	NA	NA	NA	< 0.00032	< 0.00034
Vinyl chloride	0.9	0.02	mg/kg	< 0.00016	NA	NA	NA	< 0.00016	< 0.00016
Xylene (total)	100	1.6	mg/kg	< 0.00016	NA	NA	NA	< 0.00015	< 0.00016
Total TIC, Volatile	NS	NS	mg/kg	0	NA	NA	0	0	0
SVOCs									
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0044	NA	NA	NA	< 0.0042	< 0.0044
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.044	NA	NA	NA	< 0.042	< 0.044
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.036	NA	NA	NA	< 0.034	< 0.036
2,4-Dichloropheno	NS	NS	mg/kg	< 0.062	NA	NA	NA	< 0.058	< 0.062
2,4-Dimethylpheno	NS	NS	mg/kg	< 0.064	NA	NA	NA	< 0.061	< 0.064

Table 9. Summary of Post Excavation Analytical Results, Surface Scrape Operable Unit 1, Ramapo Paint Sludg

Sample ID	375-6.8(b)	375-6.8(b)		SS-P2-7B (0.5-1.0)	SS-P2-7B (1.0-1.5)A	SS-P2-7B (1.0-1.5)B	DUP (072413)	SS-P2-8B (0.5-1.0)	SS-P2-9B (1.0-1.5)
Sample Date	NYS Restricted	NYS Protection		7/16/2013	7/24/2013	7/24/2013	7/24/2013	7/16/2013	7/17/2013
SVOCs cont.									
2,4-Dinitropheno	NS	NS	mg/kg	< 0.047 J	NA	NA	NA	< 0.044 J	< 0.047
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.017	NA	NA	NA	< 0.016	< 0.017
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.015	NA	NA	NA	< 0.014	< 0.015
2-Chloronaphthalene	NS	NS	mg/kg	< 0.012	NA	NA	NA	< 0.011	< 0.012
2-Chloropheno	NS	NS	mg/kg	< 0.039	NA	NA	NA	< 0.037	< 0.039
2-Methylnaphthalene	NS	NS	mg/kg	< 0.021	NA	NA	NA	< 0.02	< 0.021
2-Methylpheno	100	0.33	mg/kg	< 0.044	NA	NA	NA	< 0.041	< 0.044
2-Nitroaniline	NS	NS	mg/kg	< 0.017	NA	NA	NA	< 0.016	< 0.017
2-Nitrophenol	NS	NS	mg/kg	< 0.041	NA	NA	NA	< 0.038	< 0.041
3&4-Methylpheno	NS	NS	mg/kg	< 0.049	NA	NA	NA	< 0.046	< 0.049
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0097	NA	NA	NA	< 0.0092	< 0.0097
3-Nitroaniline	NS	NS	mg/kg	< 0.015	NA	NA	NA	< 0.014	< 0.015
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.047 J	NA	NA	NA	< 0.044 J	< 0.047 J
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.014	NA	NA	NA	< 0.013	< 0.014
4-Chloro-3-methyl pheno	NS	NS	mg/kg	< 0.038	NA	NA	NA	< 0.036	< 0.038
4-Chloroaniline	NS	NS	mg/kg	< 0.012	NA	NA	NA	< 0.012	< 0.012
4-Chlorophenyl phenyl ethe	NS	NS	mg/kg	< 0.012	NA	NA	NA	< 0.011	< 0.012
4-Nitroaniline	NS	NS	mg/kg	< 0.015	NA	NA	NA	< 0.014	< 0.015
4-Nitrophenol	NS	NS	mg/kg	< 0.065	NA	NA	NA	< 0.061	< 0.065
Acenaphthene	100	98	mg/kg	< 0.011	NA	NA	NA	< 0.011	< 0.011
Acenaphthylene	100	107	mg/kg	< 0.012	NA	NA	NA	< 0.012	< 0.012
Acetophenone	NS	NS	mg/kg	< 0.0068	NA	NA	NA	< 0.0064	< 0.0067
Anthracene	100	1,000	mg/kg	0.0175 J	NA	NA	NA	< 0.013	< 0.013
Atrazine	NS	NS	mg/kg	< 0.0076 J	NA	NA	NA	< 0.0071 J	< 0.0075
Benzaldehyde	NS	NS	mg/kg	< 0.0088	NA	NA	NA	< 0.0083	< 0.0088
Benzo(a)anthracene	1	1	mg/kg	0.0692	NA	NA	NA	0.0501	< 0.012
Benzo(a)pyrene	1	22	mg/kg	0.0638	NA	NA	NA	0.0462	< 0.012
Benzo(b)fluoranthene	1	1.7	mg/kg	0.0948	NA	NA	NA	0.0612	< 0.013 J
Benzo(g,h,i)perylene	100	1,000	mg/kg	0.0569	NA	NA	NA	0.0353 J	< 0.014
Benzo(k)fluoranthene	3.9	1.7	mg/kg	0.0389	NA	NA	NA	0.0297 J	< 0.014
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.015	NA	NA	NA	< 0.015	< 0.015
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.012	NA	NA	NA	< 0.011	< 0.012
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.011	NA	NA	NA	< 0.011	< 0.011
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	0.0574 J	NA	NA	NA	0.0439 J	< 0.034
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.022	NA	NA	NA	< 0.021	< 0.022
Caprolactam	NS	NS	mg/kg	< 0.012	NA	NA	NA	< 0.011	< 0.012
Carbazole	NS	NS	mg/kg	< 0.018	NA	NA	NA	< 0.017	< 0.018
Chrysene	3.9	1	mg/kg	0.0923	NA	NA	NA	0.0621	< 0.013
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	0.0168 J	NA	NA	NA	< 0.012	< 0.013
Dibenzofuran	59	210	mg/kg	< 0.011	NA	NA	NA	< 0.011	< 0.011
Diethyl phthalate	NS	NS	mg/kg	< 0.013	NA	NA	NA	< 0.012	< 0.013
Dimethyl phthalate	NS	NS	mg/kg	< 0.014	NA	NA	NA	< 0.013	< 0.013
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0085	NA	NA	NA	< 0.008	< 0.0085
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.019	NA	NA	NA	< 0.018	< 0.019
Fluoranthene	100	1,000	mg/kg	0.115	NA	NA	NA	0.0839	0.0238 J
Fluorene	100	386	mg/kg	< 0.013	NA	NA	NA	< 0.012	< 0.013
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.013	NA	NA	NA	< 0.012	< 0.012
Hexachlorobutadiene	NS	NS	mg/kg	< 0.011	NA	NA	NA	< 0.01	< 0.011
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.039	NA	NA	NA	< 0.037	< 0.039 J
Hexachloroethane	NS	NS	mg/kg	< 0.011	NA	NA	NA	< 0.01	< 0.011
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	0.054	NA	NA	NA	0.0363	< 0.013
Isophorone	NS	NS	mg/kg	< 0.01	NA	NA	NA	< 0.0097	< 0.01
Naphthalene	100	12	mg/kg	< 0.01	NA	NA	NA	< 0.0099	< 0.01
Nitrobenzene	NS	NS	mg/kg	< 0.011	NA	NA	NA	< 0.01	< 0.011
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0094	NA	NA	NA	< 0.0088	< 0.0093
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.023	NA	NA	NA	< 0.022	< 0.023
Pentachloropheno	6.7	0.8	mg/kg	< 0.066	NA	NA	NA	< 0.062	< 0.065
Phenanthrene	100	1,000	mg/kg	0.0688	NA	NA	NA	0.046	< 0.017
Phenol	100	0.33	mg/kg	< 0.04	NA	NA	NA	< 0.038	< 0.04
Pyrene	100	1,000	mg/kg	0.129	NA	NA	NA	0.0882	0.0231 J
Total TIC, Semi-Volatile	NS	NS	mg/kg	4.36 JN	NA	NA	NA	3.48 JN	0.19 JN

Table 9. Summary of Post Excavation Analytical Results, Surface Scrape Operable Unit 1, Ramapo Paint Sludg

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		SS-P2-7B (0.5-1.0) 7/16/2013	SS-P2-7B (1.0-1.5)A 7/24/2013	SS-P2-7B (1.0-1.5)B 7/24/2013	DUP (072413) 7/24/2013	SS-P2-8B (0.5-1.0) 7/16/2013	SS-P2-9B (1.0-1.5) 7/17/2013
PCBs									
Aroclor 1016	NS	NS	mg/kg	< 0.0097	NA	NA	NA	< 0.0095	< 0.01
Aroclor 1221	NS	NS	mg/kg	< 0.022	NA	NA	NA	< 0.022	< 0.023
Aroclor 1232	NS	NS	mg/kg	< 0.019	NA	NA	NA	< 0.019	< 0.019
Aroclor 1242	NS	NS	mg/kg	< 0.012	NA	NA	NA	< 0.012	< 0.012
Aroclor 1248	NS	NS	mg/kg	< 0.011	NA	NA	NA	< 0.011	< 0.012
Aroclor 1254	NS	NS	mg/kg	< 0.017	NA	NA	NA	< 0.017	< 0.018
Aroclor 1260	NS	NS	mg/kg	< 0.012	NA	NA	NA	< 0.012	< 0.013
Aroclor 1262	NS	NS	mg/kg	< 0.012	NA	NA	NA	< 0.012	< 0.012
Aroclor 1268	NS	NS	mg/kg	< 0.011	NA	NA	NA	< 0.011	< 0.011
Metals									
Aluminum	NS	NS	mg/kg	14100	NA	NA	NA	11400	19000
Antimony	NS	NS	mg/kg	11.5 J	NA	NA	NA	1.4 J	0.64 J
Arsenic	16	16	mg/kg	7.5	NA	NA	NA	5	6.2
Barium	400	820	mg/kg	109 J	NA	NA	NA	64.9 J	90.4 J
Beryllium	72	47	mg/kg	1	NA	NA	NA	0.78	1.4
Cadmium	4.3	7.5	mg/kg	< 0.088	NA	NA	NA	< 0.078	< 0.086
Calcium	NS	NS	mg/kg	4250 J	NA	NA	NA	3360 J	3250 J
Chromium	NS	NS	mg/kg	24.6 J	NA	NA	NA	22 J	28.1 J
Cobalt	NS	NS	mg/kg	9.5 J	NA	NA	NA	8.5 J	11.2 J
Copper	270	1,720	mg/kg	38.3 J	NA	NA	NA	30.9 J	35.4 J
Iron	NS	NS	mg/kg	26100 J	NA	NA	NA	22600 J	31300 J
Lead	400	450	mg/kg	699	6.7	13.1	16.5	98.8	20
Magnesium	NS	NS	mg/kg	4780 J	NA	NA	NA	4180 J	5180 J
Manganese	2,000	2,000	mg/kg	523 J	NA	NA	NA	476 J	664 J
Mercury	0.81	0.73	mg/kg	0.076	NA	NA	NA	0.059 J	0.024 J
Nickel	310	130	mg/kg	18.6	NA	NA	NA	16.9	23.4
Potassium	NS	NS	mg/kg	1830	NA	NA	NA	1300	2140
Selenium	180	4	mg/kg	< 0.32	NA	NA	NA	< 0.28	< 0.31
Silver	180	8.3	mg/kg	< 0.13	NA	NA	NA	0.11 B	< 0.12
Sodium	NS	NS	mg/kg	275 J	NA	NA	NA	169 J	301 J
Thallium	NS	NS	mg/kg	< 0.37	NA	NA	NA	< 0.32	< 0.36
Vanadium	NS	NS	mg/kg	37.5 J	NA	NA	NA	33.6 J	40.4 J
Zinc	10,000	2,480	mg/kg	89.9 J	NA	NA	NA	63.4 J	64.8 J
Other									
Solids, Percent	NS	NS	%	82.5	84.4	86.5	87.1	89	82.4

Notes:

mg/kg

<

NA

UB

B

J or JN

R

Shade

Bold

Bold and Shade

Milligrams per kilogram

Not Detected

Not Analyzed

Result non-detected at the listed value due to associated blank contamination

Result is between the method detection limit and the reporting limit

Estimated Result

Rejected Result

Result axceeds the 375-6.8(b) restricted residential use

Result exceeds the 375-6.8(b) protection of groundwater

Result exceeds both 375-6.8(b) restricted residential use and protection of groundwate

Table 9. Summary of Post Excavation Analytical Results, Surface Scrape Operable Unit 1, Ramapo Paint Sludg

Sample ID	375-6.8(b)	375-6.8(b)		SS-P2-10B (0.5-1.0)	SS-P2-11B (0.5-1.0)	SS-P2-12B (0.5-1.0)	SS-P2-13B (0.5-1.0)	SS-P2-14B (0.5-1.0)	SS-P2-15B (0.5-1.0)
Sample Date	NYS Restricted	NYS Protection		7/17/2013	7/17/2013	7/17/2013	7/17/2013	7/17/2013	7/17/2013
VOCS									
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00014	< 0.00012	< 0.00011	< 0.00012	< 0.00013	< 0.00012
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00017	< 0.00014	< 0.00014	< 0.00015	< 0.00016	< 0.00014
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00022	< 0.00019	< 0.00018	< 0.0002	< 0.00021	< 0.00019
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00018	< 0.00015	< 0.00014	< 0.00015	< 0.00017	< 0.00015
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00033	< 0.00028	< 0.00027	< 0.00029	< 0.00031	< 0.00028
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00018	< 0.00015	< 0.00015	< 0.00016	< 0.00017	< 0.00015
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.0011	< 0.00097	< 0.00093	< 0.001	< 0.0011	< 0.00097
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00016	< 0.00014	< 0.00013	< 0.00014	< 0.00015	< 0.00014
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.00024	< 0.00021	< 0.0002	< 0.00021	< 0.00023	< 0.00021
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00017	< 0.00015	< 0.00014	< 0.00015	< 0.00016	< 0.00015
1,2-Dichloropropane	NS	NS	mg/kg	< 0.0002	< 0.00017	< 0.00016	< 0.00017	< 0.00019	< 0.00017
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.00024	< 0.0002	< 0.0002	< 0.00021	< 0.00023	< 0.0002
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00023	< 0.00019	< 0.00018	< 0.0002	< 0.00021	< 0.00019
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0031	< 0.0026	< 0.0025	< 0.0027	< 0.0029	< 0.0026
2-Hexanone	NS	NS	mg/kg	< 0.0008	< 0.00068	< 0.00065	< 0.0007	< 0.00076	< 0.00068
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.00096	< 0.00082	< 0.00079	< 0.00085	< 0.00091	< 0.00082
Acetone	100	0.05	mg/kg	< 0.0022	< 0.0018	< 0.0018	0.0253	< 0.0021	< 0.0018
Benzene	4.8	0.06	mg/kg	< 0.00015	< 0.00013	< 0.00012	< 0.00013	< 0.00014	< 0.00013
Bromodichloromethane	NS	NS	mg/kg	< 0.00013	< 0.00011	< 0.00011	< 0.00012	< 0.00013	< 0.00011
Bromoform	NS	NS	mg/kg	< 0.00019	< 0.00016	< 0.00016	< 0.00017	< 0.00018	< 0.00016
Bromomethane	NS	NS	mg/kg	< 0.00035	< 0.0003	< 0.00029	< 0.00031	< 0.00033	< 0.0003
Carbon disulfide	NS	NS	mg/kg	< 0.00015	< 0.00013	< 0.00012	0.00039 J	< 0.00014	< 0.00013
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00017	< 0.00014	< 0.00014	< 0.00015	< 0.00016	< 0.00014
Chlorobenzene	100	1.1	mg/kg	< 0.00014	< 0.00012	< 0.00011	< 0.00012	< 0.00013	< 0.00012
Chloroethane	NS	NS	mg/kg	< 0.00029	< 0.00025	< 0.00024	< 0.00026	< 0.00028	< 0.00025
Chloroform	49	0.37	mg/kg	< 0.00011	< 0.00009	< 0.000087	< 0.000093	< 0.0001	< 0.00009
Chloromethane	NS	NS	mg/kg	< 0.00024	< 0.0002	< 0.0002	< 0.00021	< 0.00023	< 0.0002
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00024	< 0.0002	< 0.00019	< 0.00021	< 0.00022	< 0.0002
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00018	< 0.00015	< 0.00015	< 0.00016	< 0.00017	< 0.00015
Cyclohexane	NS	NS	mg/kg	< 0.00016	< 0.00014	< 0.00013	< 0.00014	< 0.00015	< 0.00014
Dibromochloromethane	NS	NS	mg/kg	< 0.00021	< 0.00018	< 0.00017	< 0.00018	< 0.0002	< 0.00018
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00029	< 0.00025	< 0.00024	< 0.00026	< 0.00028	< 0.00025
Ethylbenzene	41	1	mg/kg	< 0.00034	< 0.00029	< 0.00028	< 0.0003	< 0.00032	< 0.00029
Freon 113	NS	NS	mg/kg	< 0.00055	< 0.00047	< 0.00045	< 0.00048	< 0.00052	< 0.00047
Isopropylbenzene	NS	NS	mg/kg	< 0.000095	< 0.000081	< 0.000078	< 0.000084	< 0.00009	< 0.000081
Methyl Acetate	NS	NS	mg/kg	< 0.0033	< 0.0028	< 0.0027	< 0.0029	< 0.0032	< 0.0028
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.0003	< 0.00026	< 0.00025	< 0.00026	< 0.00029	< 0.00026
Methylcyclohexane	NS	NS	mg/kg	< 0.00022	< 0.00018	< 0.00018	< 0.00019	< 0.00021	< 0.00018
Methylene chloride	100	0.05	mg/kg	0.0034 J	0.0042 J	0.0017 J	0.0033 J	0.0043 J	0.003 J
Styrene	NS	NS	mg/kg	< 0.00012	< 0.0001	< 0.000096	< 0.0001	< 0.00011	< 0.0001
Tetrachloroethene	19	1.3	mg/kg	< 0.00022	< 0.00019	< 0.00018	< 0.00019	< 0.00021	< 0.00019
Toluene	100	0.7	mg/kg	< 0.00013	0.00027 J	< 0.00011	< 0.00012	< 0.00013	< 0.00011
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00031	< 0.00026	< 0.00025	< 0.00027	< 0.00029	< 0.00026
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.0002	< 0.00017	< 0.00016	< 0.00017	< 0.00019	< 0.00017
Trichloroethene	21	0.47	mg/kg	< 0.00022	< 0.00019	< 0.00018	< 0.0002	< 0.00021	< 0.00019
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00038	< 0.00032	< 0.00031	< 0.00034	< 0.00036	< 0.00032
Vinyl chloride	0.9	0.02	mg/kg	< 0.00018	< 0.00016	< 0.00015	< 0.00016	< 0.00017	< 0.00016
Xylene (total)	100	1.6	mg/kg	< 0.00018	< 0.00015	< 0.00015	< 0.00016	< 0.00017	< 0.00015
Total TIC, Volatile	NS	NS	mg/kg	0	0	0	0.0064 JN	0	0
SVOCs									
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0038	< 0.0044	< 0.0041	< 0.0044	< 0.0041	< 0.0041
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.038	< 0.044	< 0.041	< 0.044	< 0.041	< 0.041
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.031	< 0.035	< 0.033	< 0.036	< 0.033	< 0.033
2,4-Dichloropheno	NS	NS	mg/kg	< 0.053	< 0.061	< 0.056	< 0.061	< 0.057	< 0.057
2,4-Dimethylpheno	NS	NS	mg/kg	< 0.056	< 0.063	< 0.059	< 0.064	< 0.059	< 0.059

Table 9. Summary of Post Excavation Analytical Results, Surface Scrape Operable Unit 1, Ramapo Paint Sludg

Sample ID	375-6.8(b)	375-6.8(b)		SS-P2-10B (0.5-1.0)	SS-P2-11B (0.5-1.0)	SS-P2-12B (0.5-1.0)	SS-P2-13B (0.5-1.0)	SS-P2-14B (0.5-1.0)	SS-P2-15B (0.5-1.0)
Sample Date	NYS Restricted	NYS Protection		7/17/2013	7/17/2013	7/17/2013	7/17/2013	7/17/2013	7/17/2013
SVOCs cont.									
2,4-Dinitropheno	NS	NS	mg/kg	< 0.04	< 0.046	< 0.043	< 0.046	< 0.043	< 0.043
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.014	< 0.016	< 0.015	< 0.017	< 0.015	< 0.015
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.013	< 0.014	< 0.013	< 0.014	< 0.013	< 0.013
2-Chloronaphthalene	NS	NS	mg/kg	< 0.01	< 0.012	< 0.011	< 0.012	< 0.011	< 0.011
2-Chloropheno	NS	NS	mg/kg	< 0.033	< 0.038	< 0.035	< 0.038	< 0.036	< 0.036
2-Methylnaphthalene	NS	NS	mg/kg	< 0.018	< 0.021	< 0.02	< 0.021	< 0.02	< 0.02
2-Methylpheno	100	0.33	mg/kg	< 0.038	< 0.043	< 0.04	< 0.043	< 0.04	< 0.04
2-Nitroaniline	NS	NS	mg/kg	< 0.015	< 0.017	< 0.015	< 0.017	< 0.016	< 0.015
2-Nitrophenol	NS	NS	mg/kg	< 0.035	< 0.04	< 0.037	< 0.04	< 0.037	< 0.037
3&4-Methylpheno	NS	NS	mg/kg	< 0.042	< 0.048	< 0.044	< 0.048	< 0.045	< 0.045
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0084	< 0.0096	< 0.0089	< 0.0097	< 0.009	< 0.0089
3-Nitroaniline	NS	NS	mg/kg	< 0.013	< 0.015	< 0.014	< 0.015	< 0.014	< 0.014
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.04 J	< 0.046 J	< 0.043 J	< 0.046 J	< 0.043 J	< 0.043 J
4-Bromophenyl phenyl ethe	NS	NS	mg/kg	< 0.012	< 0.014	< 0.013	< 0.014	< 0.013	< 0.013
4-Chloro-3-methyl pheno	NS	NS	mg/kg	< 0.033	< 0.038	< 0.035	< 0.038	< 0.035	< 0.035
4-Chloroaniline	NS	NS	mg/kg	< 0.011	< 0.012	< 0.011	< 0.012	< 0.011	< 0.011
4-Chlorophenyl phenyl ethe	NS	NS	mg/kg	< 0.01	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
4-Nitroaniline	NS	NS	mg/kg	< 0.013	< 0.015	< 0.014	< 0.015	< 0.014	< 0.014
4-Nitrophenol	NS	NS	mg/kg	< 0.056	< 0.064	< 0.059	< 0.064	< 0.06	< 0.06
Acenaphthene	100	98	mg/kg	< 0.0096	< 0.011	< 0.01	< 0.011	< 0.01	< 0.01
Acenaphthylene	100	107	mg/kg	< 0.011	< 0.012	< 0.011	< 0.012	< 0.011	< 0.011
Acetophenone	NS	NS	mg/kg	< 0.0058	< 0.0066	< 0.0062	< 0.0062	< 0.0062	< 0.0062
Anthracene	100	1,000	mg/kg	< 0.012	< 0.013	< 0.012	< 0.013	< 0.012	< 0.012
Atrazine	NS	NS	mg/kg	< 0.0065	< 0.0074	< 0.0069	< 0.0075	< 0.007	< 0.0069
Benzaldehyde	NS	NS	mg/kg	< 0.0076	< 0.0087	< 0.008	< 0.0087	< 0.0081	< 0.0081
Benzo(a)anthracene	1	1	mg/kg	0.017 J	< 0.012	< 0.011	0.0354 J	< 0.012	< 0.011
Benzo(a)pyrene	1	22	mg/kg	0.0138 J	< 0.011	< 0.011	0.0285 J	< 0.011	< 0.011
Benzo(b)fluoranthene	1	1.7	mg/kg	0.0165 J	< 0.013 J	< 0.012 J	0.0436 J	< 0.012 J	< 0.012 J
Benzo(g,h,i)perylene	100	1,000	mg/kg	< 0.012	< 0.014	< 0.013	0.0241 J	< 0.013	< 0.013
Benzo(k)fluoranthene	3.9	1.7	mg/kg	< 0.012	< 0.014	< 0.013	< 0.014	< 0.013	< 0.013
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.013	< 0.015	< 0.014	< 0.015	< 0.014	< 0.014
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.01	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.0098	< 0.011	< 0.01	< 0.011	< 0.01	< 0.01
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.029	< 0.033	0.0405 J	0.101	< 0.031	< 0.031
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.019	< 0.022	< 0.02	< 0.022	< 0.02	< 0.02
Caprolactam	NS	NS	mg/kg	< 0.01	< 0.012	< 0.011	< 0.012	< 0.011	< 0.011
Carbazole	NS	NS	mg/kg	< 0.015	< 0.017	< 0.016	< 0.018	< 0.016	< 0.016
Chrysene	3.9	1	mg/kg	0.0171 J	< 0.013	< 0.012	0.0421	< 0.012	< 0.012
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.011	< 0.013	< 0.012	< 0.013	< 0.012	< 0.012
Dibenzofuran	59	210	mg/kg	< 0.0098	< 0.011	< 0.01	< 0.011	< 0.01	< 0.01
Diethyl phthalate	NS	NS	mg/kg	< 0.011	< 0.013	< 0.012	< 0.013	< 0.012	< 0.012
Dimethyl phthalate	NS	NS	mg/kg	< 0.012	< 0.013	< 0.012	< 0.013	< 0.012	< 0.012
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0074	< 0.0084	< 0.0078	< 0.0084	< 0.0078	< 0.0078
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.016	< 0.018	< 0.017	< 0.019	< 0.017	< 0.017
Fluoranthene	100	1,000	mg/kg	0.0302 J	< 0.017	0.0194 J	0.0532	< 0.016	< 0.016
Fluorene	100	386	mg/kg	< 0.011	< 0.012	< 0.011	< 0.012	< 0.012	< 0.012
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.011	< 0.012	< 0.011	< 0.012	< 0.012	< 0.011
Hexachlorobutadiene	NS	NS	mg/kg	< 0.0092	< 0.01	< 0.0097	< 0.011	< 0.0098	< 0.0098
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.034 J	< 0.038 J	< 0.036 J	< 0.039 J	< 0.036 J	< 0.036 J
Hexachloroethane	NS	NS	mg/kg	< 0.0092	< 0.01	< 0.0097	< 0.011	< 0.0098	< 0.0098
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	< 0.011	< 0.013	< 0.012	0.0216 J	< 0.012	< 0.012
Isophorone	NS	NS	mg/kg	< 0.0089	< 0.01	< 0.0094	< 0.01	< 0.0095	< 0.0095
Naphthalene	100	12	mg/kg	< 0.009	< 0.01	< 0.0095	< 0.01	< 0.0096	< 0.0096
Nitrobenzene	NS	NS	mg/kg	< 0.0096	< 0.011	< 0.01	< 0.011	< 0.01	< 0.01
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0081	< 0.0092	< 0.0085	< 0.0093	< 0.0086	< 0.0086
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.02	< 0.022	< 0.021	< 0.023	< 0.021	< 0.021
Pentachloropheno	6.7	0.8	mg/kg	< 0.057	< 0.064	< 0.06	< 0.065	< 0.06	< 0.06
Phenanthrene	100	1,000	mg/kg	0.0184 J	< 0.017	< 0.016	0.0394	< 0.016	< 0.016
Phenol	100	0.33	mg/kg	< 0.035	< 0.04	< 0.037	< 0.04	< 0.037	< 0.037
Pyrene	100	1,000	mg/kg	0.0296 J	< 0.014	0.0199 J	0.0694	< 0.014	< 0.014
Total TIC, Semi-Volatile	NS	NS	mg/kg	0	0.36 JN	0.23 JN	12.7 JN	0	0

Table 9. Summary of Post Excavation Analytical Results, Surface Scrape Operable Unit 1, Ramapo Paint Sludg

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		SS-P2-10B (0.5-1.0) 7/17/2013	SS-P2-11B (0.5-1.0) 7/17/2013	SS-P2-12B (0.5-1.0) 7/17/2013	SS-P2-13B (0.5-1.0) 7/17/2013	SS-P2-14B (0.5-1.0) 7/17/2013	SS-P2-15B (0.5-1.0) 7/17/2013
PCBs									
Aroclor 1016	NS	NS	mg/kg	< 0.0098	< 0.0095	< 0.0089	< 0.0092	< 0.01	< 0.0092
Aroclor 1221	NS	NS	mg/kg	< 0.023	< 0.022	< 0.021	< 0.021	< 0.024	< 0.021
Aroclor 1232	NS	NS	mg/kg	< 0.019	< 0.019	< 0.017	< 0.018	< 0.02	< 0.018
Aroclor 1242	NS	NS	mg/kg	< 0.012 J	< 0.012 J	< 0.011 J	< 0.011	< 0.013	< 0.011
Aroclor 1248	NS	NS	mg/kg	< 0.011 J	< 0.011 J	< 0.01 J	< 0.011	< 0.012	< 0.011
Aroclor 1254	NS	NS	mg/kg	< 0.018 J	< 0.017 J	< 0.016 J	< 0.017	< 0.019	< 0.016
Aroclor 1260	NS	NS	mg/kg	< 0.012 J	< 0.012 J	< 0.011 J	< 0.012	< 0.013	< 0.012
Aroclor 1262	NS	NS	mg/kg	< 0.012 J	< 0.012 J	< 0.011 J	< 0.011	< 0.013	< 0.011
Aroclor 1268	NS	NS	mg/kg	< 0.011 J	< 0.011 J	< 0.01 J	< 0.01	< 0.012	< 0.01
Metals									
Aluminum	NS	NS	mg/kg	6480	15200	13000	14100	12700	10400
Antimony	NS	NS	mg/kg	0.3 J	< 0.28 J	0.99 J	1.9 J	0.77 J	0.38 J
Arsenic	16	16	mg/kg	2.1 B	3.9	3.6	4.6	6.5	3.3
Barium	400	820	mg/kg	31.7 J	65.5 J	70.9 J	70.7 J	70.7 J	78.3 J
Beryllium	72	47	mg/kg	0.56	1.1	0.9	0.98	1	0.86
Cadmium	4.3	7.5	mg/kg	< 0.079	< 0.083	< 0.075	< 0.087	< 0.086	< 0.081
Calcium	NS	NS	mg/kg	2530 J	3020 J	5420 J	2210 J	2890 J	2130 J
Chromium	NS	NS	mg/kg	13.4 J	20.3 J	23.4 J	27.6 J	20 J	17.4 J
Cobalt	NS	NS	mg/kg	6.8 J	8.7 J	8.7 J	9.8 J	10.4 J	8.9 J
Copper	270	1,720	mg/kg	11.7 J	23.5 J	21 J	22.4 J	28.3 J	19.6 J
Iron	NS	NS	mg/kg	15100 J	24000 J	23900 J	27200 J	26600 J	21000 J
Lead	400	450	mg/kg	7.5	8.7	36.9	112	9	9.9
Magnesium	NS	NS	mg/kg	2250 J	3780 J	4670 J	4450 J	4220 J	3290 J
Manganese	2,000	2,000	mg/kg	345 J	391 J	630 J	682 J	661 J	628 J
Mercury	0.81	0.73	mg/kg	< 0.0072 J	< 0.0068 J	0.016 J	0.018 J	< 0.0066 J	< 0.0066 J
Nickel	310	130	mg/kg	10	16	20.2	21.7	19.8	15.4
Potassium	NS	NS	mg/kg	866 B	1600	1310	1340	1740	1240
Selenium	180	4	mg/kg	< 0.29	< 0.3	< 0.27	< 0.32	0.78 B	< 0.3
Silver	180	8.3	mg/kg	0.2 B	0.14 B	< 0.11	0.17 B	0.29 B	0.15 B
Sodium	NS	NS	mg/kg	193 J	248 J	171 J	171 J	226 J	170 J
Thallium	NS	NS	mg/kg	< 0.33	< 0.34	< 0.31	< 0.36	0.93 B	< 0.34
Vanadium	NS	NS	mg/kg	21.6 J	32.5 J	36 J	44 J	33.1 J	28.6 J
Zinc	10,000	2,480	mg/kg	23.9 J	37.6 J	47.1 J	55.1 J	52.5 J	44.5 J
Other									
Solids, Percent	NS	NS	%	86.5	88.2	93.5	85.4	82.3	88.2

Notes:

mg/kg

<

NA

UB

B

J or JN

R

Shade

Bold

Bold and Shade

Milligrams per kilogram

Not Detected

Not Analyzed

Result non-detected at the listed value due to associated blank contamination

Result is between the method detection limit and the reporting limit

Estimated Result

Rejected Result

Result axceeds the 375-6.8(b) restricted residential use

Result exceeds the 375-6.8(b) protection of groundwater

Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater

Table 9. Summary of Post Excavation Analytical Results, Surface Scrape Operable Unit 1, Ramapo Paint Sludg

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		SS-P2-16B (0.5-1.0) 7/17/2013	SS-P2-17B (0.5-1.0) 7/17/2013	SS-P2-18B (0.5-1.0) 7/17/2013	SS-P2-18B (1.0-1.5)A 7/24/2013	SS-P2-18B (1.0-1.5)B 7/24/2013	SS-P2-19B (0.5-1.0) 7/17/2013
VOCS									
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00011	< 0.00012	< 0.00014	NA	NA	< 0.00012
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00014	< 0.00015	< 0.00017	NA	NA	< 0.00015
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00019	< 0.0002	< 0.00022	NA	NA	< 0.0002
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00015	< 0.00016	< 0.00018	NA	NA	< 0.00016
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00028	< 0.0003	< 0.00033	NA	NA	< 0.0003
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00015	< 0.00016	< 0.00018	NA	NA	< 0.00016
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.00095	< 0.001	< 0.0011	NA	NA	< 0.001
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00014	< 0.00015	< 0.00016	NA	NA	< 0.00015
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.0002	< 0.00022	< 0.00024	NA	NA	< 0.00022
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00014	< 0.00016	< 0.00017	NA	NA	< 0.00016
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00016	< 0.00018	< 0.0002	NA	NA	< 0.00018
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.0002	< 0.00022	< 0.00024	NA	NA	< 0.00022
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00019	< 0.00021	< 0.00023	NA	NA	< 0.0002
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0026	< 0.0028	< 0.0031	NA	NA	< 0.0028
2-Hexanone	NS	NS	mg/kg	< 0.00067	< 0.00073	< 0.0008	NA	NA	< 0.00072
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.0008	< 0.00088	< 0.00097	NA	NA	< 0.00087
Acetone	100	0.05	mg/kg	< 0.0018	< 0.002	< 0.0022	NA	NA	< 0.0019
Benzene	4.8	0.06	mg/kg	< 0.00013	< 0.00014	< 0.00015	NA	NA	< 0.00014
Bromodichloromethane	NS	NS	mg/kg	< 0.00011	< 0.00012	< 0.00013	NA	NA	< 0.00012
Bromoform	NS	NS	mg/kg	< 0.00016	< 0.00018	< 0.00019	NA	NA	< 0.00017
Bromomethane	NS	NS	mg/kg	< 0.00029	< 0.00032	< 0.00035	NA	NA	< 0.00031
Carbon disulfide	NS	NS	mg/kg	< 0.00013	< 0.00014	< 0.00015	NA	NA	< 0.00013
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00014	< 0.00016	< 0.00017	NA	NA	< 0.00015
Chlorobenzene	100	1.1	mg/kg	< 0.00012	< 0.00013	< 0.00014	NA	NA	< 0.00012
Chloroethane	NS	NS	mg/kg	< 0.00024	< 0.00027	< 0.00029	NA	NA	< 0.00026
Chloroform	49	0.37	mg/kg	< 0.000088	< 0.000097	< 0.00011	NA	NA	< 0.000095
Chloromethane	NS	NS	mg/kg	< 0.0002	< 0.00022	< 0.00024	NA	NA	< 0.00021
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.0002	< 0.00021	< 0.00024	NA	NA	< 0.00021
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00015	< 0.00016	< 0.00018	NA	NA	< 0.00016
Cyclohexane	NS	NS	mg/kg	< 0.00013	< 0.00015	< 0.00016	NA	NA	< 0.00014
Dibromochloromethane	NS	NS	mg/kg	< 0.00018	< 0.00019	< 0.00021	NA	NA	< 0.00019
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00024	< 0.00027	< 0.00029	NA	NA	< 0.00026
Ethylbenzene	41	1	mg/kg	< 0.00028	< 0.00031	< 0.00034	NA	NA	< 0.0003
Freon 113	NS	NS	mg/kg	< 0.00046	< 0.0005	< 0.00055	NA	NA	< 0.0005
Isopropylbenzene	NS	NS	mg/kg	< 0.00008	< 0.000087	< 0.000095	NA	NA	< 0.000086
Methyl Acetate	NS	NS	mg/kg	< 0.0028	< 0.0031	< 0.0033	NA	NA	< 0.003
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00025	< 0.00028	< 0.0003	NA	NA	< 0.00027
Methylcyclohexane	NS	NS	mg/kg	< 0.00018	< 0.0002	< 0.00022	NA	NA	< 0.00019
Methylene chloride	100	0.05	mg/kg	< 0.0014	0.0035 J	0.0023 J	NA	NA	0.0023 J
Styrene	NS	NS	mg/kg	< 0.000098	< 0.00011	< 0.00012	NA	NA	< 0.00011
Tetrachloroethene	19	1.3	mg/kg	< 0.00018	< 0.0002	< 0.00022	NA	NA	< 0.0002
Toluene	100	0.7	mg/kg	< 0.00011	< 0.00012	< 0.00013	NA	NA	< 0.00012
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00025	< 0.00028	< 0.00031	NA	NA	< 0.00027
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00017	< 0.00018	< 0.0002	NA	NA	< 0.00018
Trichloroethene	21	0.47	mg/kg	< 0.00019	< 0.0002	< 0.00022	NA	NA	< 0.0002
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00032	< 0.00035	< 0.00038	NA	NA	< 0.00034
Vinyl chloride	0.9	0.02	mg/kg	< 0.00015	< 0.00017	< 0.00019	NA	NA	< 0.00017
Xylene (total)	100	1.6	mg/kg	< 0.00015	< 0.00016	< 0.00018	NA	NA	< 0.00016
Total TIC, Volatile	NS	NS	mg/kg	0	0	0	NA	NA	0
SVOCs									
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0039	< 0.0046	< 0.0038	NA	NA	< 0.0037
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.039	< 0.046	< 0.038	NA	NA	< 0.037
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.032	< 0.037	< 0.031	NA	NA	< 0.03
2,4-Dichloropheno	NS	NS	mg/kg	< 0.054	< 0.064	< 0.053	NA	NA	< 0.052
2,4-Dimethylpheno	NS	NS	mg/kg	< 0.057	< 0.067	< 0.055	NA	NA	< 0.054

Table 9. Summary of Post Excavation Analytical Results, Surface Scrape Operable Unit 1, Ramapo Paint Sludg

Sample ID	375-6.8(b)	375-6.8(b)		SS-P2-16B (0.5-1.0)	SS-P2-17B (0.5-1.0)	SS-P2-18B (0.5-1.0)	SS-P2-18B (1.0-1.5)A	SS-P2-18B (1.0-1.5)B	SS-P2-19B (0.5-1.0)
Sample Date	NYS Restricted	NYS Protection		7/17/2013	7/17/2013	7/17/2013	7/24/2013	7/24/2013	7/17/2013
SVOCs cont.									
2,4-Dinitropheno	NS	NS	mg/kg	< 0.041	< 0.049	< 0.04	NA	NA	< 0.039
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.015	< 0.017	< 0.014	NA	NA	< 0.014
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.013	< 0.015	< 0.013	NA	NA	< 0.012
2-Chloronaphthalene	NS	NS	mg/kg	< 0.01	< 0.012	< 0.01	NA	NA	< 0.0099
2-Chloropheno	NS	NS	mg/kg	< 0.034	< 0.04	< 0.033	NA	NA	< 0.032
2-Methylnaphthalene	NS	NS	mg/kg	< 0.019	< 0.022	< 0.018	NA	NA	< 0.018
2-Methylpheno	100	0.33	mg/kg	< 0.039	< 0.045	< 0.037	NA	NA	< 0.037
2-Nitroaniline	NS	NS	mg/kg	< 0.015	< 0.018	< 0.014	NA	NA	< 0.014
2-Nitrophenol	NS	NS	mg/kg	< 0.036	< 0.042	< 0.035	NA	NA	< 0.034
3&4-Methylpheno	NS	NS	mg/kg	< 0.043	< 0.051	< 0.042	NA	NA	< 0.041
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0086	< 0.01	< 0.0083	NA	NA	< 0.0082
3-Nitroaniline	NS	NS	mg/kg	< 0.014	< 0.016	< 0.013	NA	NA	< 0.013
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.041 J	< 0.049 J	< 0.04 J	NA	NA	< 0.039 J
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.012	< 0.014	< 0.012	NA	NA	< 0.012
4-Chloro-3-methyl pheno	NS	NS	mg/kg	< 0.034	< 0.04	< 0.033	NA	NA	< 0.032
4-Chloroaniline	NS	NS	mg/kg	< 0.011	< 0.013	< 0.011	NA	NA	< 0.01
4-Chlorophenyl phenyl ethe	NS	NS	mg/kg	< 0.01	< 0.012	< 0.0099	NA	NA	< 0.0097
4-Nitroaniline	NS	NS	mg/kg	< 0.013	< 0.016	< 0.013	NA	NA	< 0.013
4-Nitrophenol	NS	NS	mg/kg	< 0.057	< 0.067	< 0.055	NA	NA	< 0.054
Acenaphthene	100	98	mg/kg	< 0.0098	< 0.012	0.0264 J	NA	NA	< 0.0093
Acenaphthylene	100	107	mg/kg	< 0.011	< 0.013	0.233	NA	NA	< 0.01
Acetophenone	NS	NS	mg/kg	< 0.0059	< 0.007	< 0.0058	NA	NA	< 0.0056
Anthracene	100	1,000	mg/kg	< 0.012	< 0.014	0.279	NA	NA	< 0.011
Atrazine	NS	NS	mg/kg	< 0.0067	< 0.0078	< 0.0065	NA	NA	< 0.0063
Benzaldehyde	NS	NS	mg/kg	< 0.0078	< 0.0092	< 0.0076	NA	NA	< 0.0074
Benzo(a)anthracene	1	1	mg/kg	0.0138 J	< 0.013	0.933	NA	NA	< 0.01
Benzo(a)pyrene	1	22	mg/kg	< 0.01	< 0.012	0.757	NA	NA	< 0.0098
Benzo(b)fluoranthene	1	1.7	mg/kg	< 0.011 J	< 0.013 J	1.32 J	< 0.013	0.131	< 0.011 J
Benzo(g,h,i)perylene	100	1,000	mg/kg	< 0.013	< 0.015	0.593	NA	NA	< 0.012
Benzo(k)fluoranthene	3.9	1.7	mg/kg	< 0.013	< 0.015	0.48	NA	NA	< 0.012
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.014	< 0.016	< 0.013	NA	NA	< 0.013
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.01	< 0.012	< 0.0099	NA	NA	< 0.0097
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.01	< 0.012	< 0.0097	NA	NA	< 0.0095
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.03	< 0.035	< 0.029	NA	NA	< 0.028
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.02	< 0.023	< 0.019	NA	NA	< 0.019
Caprolactam	NS	NS	mg/kg	< 0.011	< 0.013	< 0.01	NA	NA	< 0.01
Carbazole	NS	NS	mg/kg	< 0.016	< 0.018	0.0528 J	NA	NA	< 0.015
Chrysene	3.9	1	mg/kg	0.0138 J	< 0.013	0.996	NA	NA	< 0.011
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.012	< 0.014	0.173	NA	NA	< 0.011
Dibenzofuran	59	210	mg/kg	< 0.01	< 0.012	0.0202 J	NA	NA	< 0.0095
Diethyl phthalate	NS	NS	mg/kg	< 0.012	< 0.014	< 0.011	NA	NA	< 0.011
Dimethyl phthalate	NS	NS	mg/kg	< 0.012	< 0.014	< 0.012	NA	NA	< 0.011
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0075	< 0.0088	< 0.0073	NA	NA	< 0.0071
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.016	< 0.019	< 0.016	NA	NA	< 0.016
Fluoranthene	100	1,000	mg/kg	0.021 J	0.0205 J	1.44	NA	NA	< 0.014
Fluorene	100	386	mg/kg	< 0.011	< 0.013	0.0442	NA	NA	< 0.011
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.011	< 0.013	< 0.011	NA	NA	< 0.01
Hexachlorobutadiene	NS	NS	mg/kg	< 0.0094	< 0.011	< 0.0091	NA	NA	< 0.0089
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.034 J	< 0.041 J	< 0.033 J	NA	NA	< 0.033 J
Hexachloroethane	NS	NS	mg/kg	< 0.0094	< 0.011	< 0.0091	NA	NA	< 0.0089
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	< 0.012	< 0.014	0.559	< 0.013	0.0497	< 0.011
Isophorone	NS	NS	mg/kg	< 0.0091	< 0.011	< 0.0088	NA	NA	< 0.0086
Naphthalene	100	12	mg/kg	< 0.0092	< 0.011	< 0.009	NA	NA	< 0.0088
Nitrobenzene	NS	NS	mg/kg	< 0.0098	< 0.011	< 0.0095	NA	NA	< 0.0093
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0082	< 0.0097	< 0.008	NA	NA	< 0.0078
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.02	< 0.024	< 0.02	NA	NA	< 0.019
Pentachloropheno	6.7	0.8	mg/kg	< 0.058	< 0.068	< 0.056	NA	NA	< 0.055
Phenanthrene	100	1,000	mg/kg	< 0.015	< 0.018	0.473	NA	NA	< 0.015
Phenol	100	0.33	mg/kg	< 0.035	< 0.042	< 0.034	NA	NA	< 0.034
Pyrene	100	1,000	mg/kg	0.0209 J	0.0192 J	2.28	NA	NA	< 0.012
Total TIC, Semi-Volatile	NS	NS	mg/kg	0.42 JN	1.2 JN	7.59 JN	0	0	0.44 JN

Table 9. Summary of Post Excavation Analytical Results, Surface Scrape Operable Unit 1, Ramapo Paint Sludg

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		SS-P2-16B (0.5-1.0) 7/17/2013	SS-P2-17B (0.5-1.0) 7/17/2013	SS-P2-18B (0.5-1.0) 7/17/2013	SS-P2-18B (1.0-1.5)A 7/24/2013	SS-P2-18B (1.0-1.5)B 7/24/2013	SS-P2-19B (0.5-1.0) 7/17/2013
PCBs									
Aroclor 1016	NS	NS	mg/kg	< 0.0091	< 0.01	< 0.0087	NA	NA	< 0.009
Aroclor 1221	NS	NS	mg/kg	< 0.021	< 0.023	< 0.02	NA	NA	< 0.021
Aroclor 1232	NS	NS	mg/kg	< 0.018	< 0.019	< 0.017	NA	NA	< 0.018
Aroclor 1242	NS	NS	mg/kg	< 0.011	< 0.012	< 0.011	NA	NA	< 0.011
Aroclor 1248	NS	NS	mg/kg	< 0.011	< 0.012	< 0.01	NA	NA	< 0.011
Aroclor 1254	NS	NS	mg/kg	< 0.016	< 0.018	< 0.016	NA	NA	< 0.016
Aroclor 1260	NS	NS	mg/kg	< 0.011	< 0.013	< 0.011	NA	NA	< 0.011
Aroclor 1262	NS	NS	mg/kg	< 0.011	< 0.012	< 0.011	NA	NA	< 0.011
Aroclor 1268	NS	NS	mg/kg	< 0.01	< 0.011	< 0.0099	NA	NA	< 0.01
Metals									
Aluminum	NS	NS	mg/kg	15000	13000	12700	NA	NA	15200
Antimony	NS	NS	mg/kg	0.52 J	0.45 J	1.3 J	NA	NA	0.64 J
Arsenic	16	16	mg/kg	3.5	3.4	4.1	NA	NA	4.1
Barium	400	820	mg/kg	78 J	56.2 J	69.8 J	NA	NA	54.1 J
Beryllium	72	47	mg/kg	0.9	0.93	0.87	NA	NA	1
Cadmium	4.3	7.5	mg/kg	< 0.077	< 0.084	0.2 B	NA	NA	< 0.075
Calcium	NS	NS	mg/kg	1210 J	3130 J	2150 J	NA	NA	1100 J
Chromium	NS	NS	mg/kg	36.2 J	19.3 J	23.3 J	NA	NA	26.8 J
Cobalt	NS	NS	mg/kg	9 J	9.3 J	8.9 J	NA	NA	9.3 J
Copper	270	1,720	mg/kg	16.2 J	22.2 J	23.2 J	NA	NA	19.4 J
Iron	NS	NS	mg/kg	26700 J	22700 J	23300 J	NA	NA	25900 J
Lead	400	450	mg/kg	35.1	10.1	87.2	NA	NA	29.6
Magnesium	NS	NS	mg/kg	3840 J	3910 J	3300	NA	NA	3740 J
Manganese	2,000	2,000	mg/kg	581 J	302 J	839 J	NA	NA	779 J
Mercury	0.81	0.73	mg/kg	0.03 J	< 0.0071 J	0.031 J	NA	NA	0.025 J
Nickel	310	130	mg/kg	18.8	14.9	16.6	NA	NA	19.9
Potassium	NS	NS	mg/kg	774 B	1580	816 B	NA	NA	668 B
Selenium	180	4	mg/kg	< 0.28	< 0.31	< 0.28	NA	NA	< 0.27
Silver	180	8.3	mg/kg	0.15 B	0.36 B	0.36 B	NA	NA	0.11 B
Sodium	NS	NS	mg/kg	97.1 B	234 J	102 B	NA	NA	104 B
Thallium	NS	NS	mg/kg	< 0.32	< 0.35	< 0.32	NA	NA	< 0.31
Vanadium	NS	NS	mg/kg	47.5 J	33.8 J	35.3 J	NA	NA	42.7 J
Zinc	10,000	2,480	mg/kg	56.6 J	36.7 J	91.7 J	NA	NA	54.3 J
Other									
Solids, Percent	NS	NS	%	91.6	83.5	94.9	88.1	86.7	92.2

Notes:

mg/kg

<

NA

UB

B

J or JN

R

Shade

Bold

Bold and Shade

Milligrams per kilogram

Not Detected

Not Analyzed

Result non-detected at the listed value due to associated blank contamination

Result is between the method detection limit and the reporting limit

Estimated Result

Rejected Result

Result axceeds the 375-6.8(b) restricted residential use

Result exceeds the 375-6.8(b) protection of groundwater

Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater

Table 9. Summary of Post Excavation Analytical Results, Surface Scrape Operable Unit 1, Ramapo Paint Sludg

Sample ID	375-6.8(b)	375-6.8(b)		SS-P2-20B (0.5-1.0)	SS-P2-21B (0.5-1.0)	DUP (071713)	SS-P2-22B (0.5-1.0)	SS-P2-23B (0.5-1.0)	SS-P2-24B (0.5-1.0)
Sample Date	NYS Restricted	NYS Protection		7/17/2013	7/17/2013	7/17/2013	7/17/2013	7/17/2013	7/17/2013
VOCs									
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00011	< 0.00012	< 0.00011	< 0.00014	< 0.00011	< 0.00011
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00014	< 0.00016	< 0.00013	< 0.00018	< 0.00014	< 0.00014
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00019	< 0.0002	< 0.00018	< 0.00024	< 0.00019	< 0.00019
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00015	< 0.00016	< 0.00014	< 0.00019	< 0.00015	< 0.00015
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00027	< 0.0003	< 0.00026	< 0.00035	< 0.00028	< 0.00028
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00015	< 0.00016	< 0.00014	< 0.00019	< 0.00015	< 0.00015
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.00095	< 0.001	< 0.00091	< 0.0012	< 0.00096	< 0.00096
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00014	< 0.00015	< 0.00013	< 0.00017	< 0.00014	< 0.00014
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.0002	< 0.00022	< 0.00019	< 0.00026	< 0.0002	< 0.0002
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00014	< 0.00016	< 0.00014	< 0.00018	< 0.00015	< 0.00015
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00016	< 0.00018	< 0.00016	< 0.00021	< 0.00017	< 0.00017
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.0002	< 0.00022	< 0.00019	< 0.00025	< 0.0002	< 0.0002
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00019	< 0.00021	< 0.00018	< 0.00024	< 0.00019	< 0.00019
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0025	< 0.0028	< 0.0024	< 0.0032	< 0.0026	< 0.0026
2-Hexanone	NS	NS	mg/kg	< 0.00066	< 0.00073	< 0.00063	< 0.00084	< 0.00067	< 0.00067
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.0008	< 0.00088	< 0.00077	< 0.001	< 0.00081	< 0.00081
Acetone	100	0.05	mg/kg	< 0.0018	< 0.002	< 0.0017	< 0.0023	< 0.0018	< 0.0018
Benzene	4.8	0.06	mg/kg	< 0.00013	< 0.00014	< 0.00012	< 0.00016	< 0.00013	< 0.00013
Bromodichloromethane	NS	NS	mg/kg	< 0.00011	< 0.00012	< 0.00011	< 0.00014	< 0.00011	< 0.00011
Bromoform	NS	NS	mg/kg	< 0.00016	< 0.00018	< 0.00015	< 0.0002	< 0.00016	< 0.00016
Bromomethane	NS	NS	mg/kg	< 0.00029	< 0.00032	< 0.00028	< 0.00037	< 0.0003	< 0.00029
Carbon disulfide	NS	NS	mg/kg	< 0.00012	< 0.00014	< 0.00012	< 0.00016	< 0.00013	< 0.00013
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00014	< 0.00016	< 0.00014	< 0.00018	< 0.00014	< 0.00014
Chlorobenzene	100	1.1	mg/kg	< 0.00012	< 0.00013	< 0.00011	< 0.00015	< 0.00012	< 0.00012
Chloroethane	NS	NS	mg/kg	< 0.00024	< 0.00027	< 0.00023	< 0.00031	< 0.00025	< 0.00025
Chloroform	49	0.37	mg/kg	< 0.000088	< 0.000097	< 0.000084	< 0.00011	< 0.000089	< 0.000089
Chloromethane	NS	NS	mg/kg	< 0.0002	< 0.00022	< 0.00019	< 0.00025 J	< 0.0002 J	< 0.0002 J
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00019	< 0.00022	< 0.00019	< 0.00025	< 0.0002	< 0.0002
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00015	< 0.00016	< 0.00014	< 0.00019	< 0.00015	< 0.00015
Cyclohexane	NS	NS	mg/kg	< 0.00013	< 0.00015	< 0.00013	< 0.00017	< 0.00013	< 0.00013
Dibromochloromethane	NS	NS	mg/kg	< 0.00017	< 0.00019	< 0.00017	< 0.00022	< 0.00018	< 0.00018
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00024	< 0.00027	< 0.00023	< 0.00031 J	< 0.00025 J	< 0.00025 J
Ethylbenzene	41	1	mg/kg	< 0.00028	< 0.00031	< 0.00027	< 0.00036	< 0.00028	< 0.00028
Freon 113	NS	NS	mg/kg	< 0.00046	< 0.00051	< 0.00044	< 0.00058	< 0.00047	< 0.00046
Isopropylbenzene	NS	NS	mg/kg	< 0.000079	< 0.000087	< 0.000076	< 0.0001	< 0.00008	< 0.00008
Methyl Acetate	NS	NS	mg/kg	< 0.0028	< 0.0031	< 0.0027	< 0.0035	< 0.0028	< 0.0028
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00025	< 0.00028	< 0.00024	< 0.00032	< 0.00025	< 0.00025
Methylcyclohexane	NS	NS	mg/kg	< 0.00018	< 0.0002	< 0.00017	< 0.00023	< 0.00018	< 0.00018
Methylene chloride	100	0.05	mg/kg	< 0.0014	0.0019 J	0.0068	< 0.0017	0.0024 J	0.0031 J
Styrene	NS	NS	mg/kg	< 0.000098	< 0.00011	< 0.000094	< 0.00012	< 0.000099	< 0.000099
Tetrachloroethene	19	1.3	mg/kg	< 0.00018	< 0.0002	< 0.00018	< 0.00023	< 0.00019	< 0.00019
Toluene	100	0.7	mg/kg	< 0.00011	< 0.00012	< 0.00011	< 0.00014	< 0.00011	< 0.00011
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00025	< 0.00028	< 0.00024	< 0.00032	< 0.00026	< 0.00026
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00017	< 0.00018	< 0.00016	< 0.00021	< 0.00017	< 0.00017
Trichloroethene	21	0.47	mg/kg	< 0.00019	< 0.0002	< 0.00018	< 0.00024	< 0.00019	< 0.00019
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00032	< 0.00035	< 0.0003	< 0.0004	< 0.00032	< 0.00032
Vinyl chloride	0.9	0.02	mg/kg	< 0.00015	< 0.00017	< 0.00015	< 0.0002	< 0.00016	< 0.00016
Xylene (total)	100	1.6	mg/kg	< 0.00015	< 0.00016	< 0.00014	< 0.00019	< 0.00015	< 0.00015
Total TIC, Volatile	NS	NS	mg/kg	0	0	0	0	0	0
SVOCs									
1,1'-Biphenyl	NS	NS	mg/kg	< 0.004	< 0.0044	< 0.004	< 0.0042	< 0.0041	< 0.0045
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.04	< 0.044	< 0.04	< 0.042	< 0.041	< 0.045
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.033	< 0.035	< 0.033	< 0.034	< 0.033	< 0.036
2,4-Dichloropheno	NS	NS	mg/kg	< 0.056	< 0.061	< 0.056	< 0.059	< 0.057	< 0.062
2,4-Dimethylpheno	NS	NS	mg/kg	< 0.058	< 0.063	< 0.058	< 0.061	< 0.06	< 0.065

Table 9. Summary of Post Excavation Analytical Results, Surface Scrape Operable Unit 1, Ramapo Paint Sludg

Sample ID	375-6.8(b)	375-6.8(b)		SS-P2-20B (0.5-1.0)	SS-P2-21B (0.5-1.0)	DUP (071713)	SS-P2-22B (0.5-1.0)	SS-P2-23B (0.5-1.0)	SS-P2-24B (0.5-1.0)
Sample Date	NYS Restricted	NYS Protection		7/17/2013	7/17/2013	7/17/2013	7/17/2013	7/17/2013	7/17/2013
SVOCs cont.									
2,4-Dinitropheno	NS	NS	mg/kg	< 0.042	< 0.046	< 0.042 J	< 0.045 J	< 0.043 J	< 0.047 J
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.015	< 0.016	< 0.015	< 0.016	< 0.016	< 0.017
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.013	< 0.014	< 0.013	< 0.014	< 0.014	< 0.015
2-Chloronaphthalene	NS	NS	mg/kg	< 0.011	< 0.012	< 0.011	< 0.011	< 0.011	< 0.012
2-Chloropheno	NS	NS	mg/kg	< 0.035	< 0.038	< 0.035	< 0.037	< 0.036	< 0.039
2-Methylnaphthalene	NS	NS	mg/kg	< 0.019	< 0.021	< 0.019	< 0.02	< 0.02	< 0.021
2-Methylpheno	100	0.33	mg/kg	< 0.04	< 0.043	< 0.04	< 0.042	< 0.041	< 0.044
2-Nitroaniline	NS	NS	mg/kg	< 0.015	< 0.017	< 0.015	< 0.016	< 0.016	< 0.017
2-Nitrophenol	NS	NS	mg/kg	< 0.037	< 0.04	< 0.037	< 0.039	< 0.038	< 0.041
3&4-Methylpheno	NS	NS	mg/kg	< 0.044	< 0.048	< 0.044	< 0.046	< 0.045	< 0.049
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0088	< 0.0096	< 0.0088	< 0.0093	< 0.009	< 0.0098
3-Nitroaniline	NS	NS	mg/kg	< 0.014	< 0.015	< 0.014	< 0.015	< 0.014	< 0.015
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.042 J	< 0.046 J	< 0.042 J	< 0.045 J	< 0.043 J	< 0.047 J
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.013	< 0.014	< 0.013	< 0.013	< 0.013	< 0.014
4-Chloro-3-methyl pheno	NS	NS	mg/kg	< 0.035	< 0.038	< 0.035	< 0.037	< 0.036	< 0.039
4-Chloroaniline	NS	NS	mg/kg	< 0.011	< 0.012	< 0.011	< 0.012	< 0.011	< 0.012
4-Chlorophenyl phenyl ethe	NS	NS	mg/kg	< 0.01	< 0.011	< 0.01	< 0.011	< 0.011	< 0.012
4-Nitroaniline	NS	NS	mg/kg	< 0.014	< 0.015	< 0.014	< 0.014	< 0.014	< 0.015
4-Nitrophenol	NS	NS	mg/kg	< 0.059	< 0.064	< 0.059	< 0.062	< 0.06	< 0.065
Acenaphthene	100	98	mg/kg	< 0.01	< 0.011	< 0.01	< 0.011	< 0.01	< 0.011
Acenaphthylene	100	107	mg/kg	< 0.011	< 0.012	< 0.011	< 0.012	< 0.011	< 0.012
Acetophenone	NS	NS	mg/kg	< 0.0061	< 0.0066	< 0.0061	< 0.0064	< 0.0063	< 0.0068
Anthracene	100	1,000	mg/kg	< 0.012	< 0.013	< 0.012	0.0145 J	< 0.012	< 0.013
Atrazine	NS	NS	mg/kg	< 0.0068	< 0.0074	< 0.0068 J	< 0.0072 J	< 0.007 J	< 0.0076 J
Benzaldehyde	NS	NS	mg/kg	< 0.008	< 0.0087	< 0.008	< 0.0084	< 0.0082	< 0.0089
Benzo(a)anthracene	1	1	mg/kg	0.0305 J	< 0.012	< 0.011	0.0428	0.0358 J	< 0.013
Benzo(a)pyrene	1	22	mg/kg	0.0233 J	< 0.011	< 0.011	0.0331 J	0.0302 J	< 0.012
Benzo(b)fluoranthene	1	1.7	mg/kg	0.0424 J	< 0.013 J	< 0.012	0.0441	0.0395	< 0.013
Benzo(g,h,i)perylene	100	1,000	mg/kg	0.0153 J	< 0.014	< 0.013	0.0216 J	0.0215 J	< 0.014
Benzo(k)fluoranthene	3.9	1.7	mg/kg	0.018 J	< 0.014	< 0.013	0.0214 J	0.0149 J	< 0.014
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.014	< 0.015	< 0.014	< 0.015	< 0.014	< 0.016
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.01	< 0.011	< 0.01	< 0.011	< 0.011	< 0.012
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.01	< 0.011	< 0.01	< 0.011	< 0.011	< 0.011
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.031	< 0.033	< 0.031	< 0.032	< 0.031	< 0.034
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.02	< 0.022	< 0.02	< 0.021	< 0.021	< 0.022
Caprolactam	NS	NS	mg/kg	< 0.011	< 0.012	< 0.011	< 0.012	< 0.011	< 0.012
Carbazole	NS	NS	mg/kg	< 0.016	< 0.017	< 0.016	< 0.017	< 0.016	< 0.018
Chrysene	3.9	1	mg/kg	0.0343 J	< 0.013	< 0.012	0.0478	0.0403	< 0.013
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.012	< 0.013	< 0.012	< 0.012	< 0.012	< 0.013
Dibenzofuran	59	210	mg/kg	< 0.01	< 0.011	< 0.01	< 0.011	< 0.011	< 0.011
Diethyl phthalate	NS	NS	mg/kg	< 0.012	< 0.013	< 0.012	< 0.012	< 0.012	< 0.013
Dimethyl phthalate	NS	NS	mg/kg	< 0.012	< 0.013	< 0.012	< 0.013	< 0.013	< 0.014
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0077	< 0.0084	< 0.0077	< 0.0081	< 0.0079	< 0.0085
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.017	< 0.018	< 0.017	< 0.018	< 0.017	< 0.019
Fluoranthene	100	1,000	mg/kg	0.0503	< 0.017	< 0.015	0.0698	0.0642	< 0.017
Fluorene	100	386	mg/kg	< 0.011	< 0.012	< 0.011	< 0.012	< 0.012	< 0.013
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.011	< 0.012	< 0.011	< 0.012	< 0.012	< 0.013
Hexachlorobutadiene	NS	NS	mg/kg	< 0.0096	< 0.01	< 0.0096	< 0.01	< 0.0099	< 0.011
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.035 J	< 0.038 J	< 0.035	< 0.037	< 0.036	< 0.039
Hexachloroethane	NS	NS	mg/kg	< 0.0096	< 0.01	< 0.0096	< 0.01	< 0.0099	< 0.011
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	0.0144 J	< 0.013	< 0.012	0.0234 J	0.0218 J	< 0.013
Isophorone	NS	NS	mg/kg	< 0.0093	< 0.01	< 0.0093	< 0.0098	< 0.0096	< 0.01
Naphthalene	100	12	mg/kg	< 0.0095	< 0.01	< 0.0095	< 0.01	< 0.0097	< 0.011
Nitrobenzene	NS	NS	mg/kg	< 0.01	< 0.011	< 0.01	< 0.011	< 0.01	< 0.011
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0085	< 0.0092	< 0.0085	< 0.0089	< 0.0087	< 0.0094
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.021	< 0.022	< 0.021	< 0.022	< 0.021	< 0.023
Pentachloropheno	6.7	0.8	mg/kg	< 0.059	< 0.064	< 0.059	< 0.062	< 0.061	< 0.066
Phenanthrene	100	1,000	mg/kg	0.0175 J	< 0.017	< 0.016	0.0553	0.0359 J	< 0.018
Phenol	100	0.33	mg/kg	< 0.036	< 0.04	< 0.036	< 0.038	< 0.037	< 0.04
Pyrene	100	1,000	mg/kg	0.057	< 0.014	< 0.013	0.073	0.0732	< 0.015
Total TIC, Semi-Volatile	NS	NS	mg/kg	1.92 JN	0.19 JN	0.18 JN	4.02 JN	0.45 JN	0

Table 9. Summary of Post Excavation Analytical Results, Surface Scrape Operable Unit 1, Ramapo Paint Sludg

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		SS-P2-20B (0.5-1.0) 7/17/2013	SS-P2-21B (0.5-1.0) 7/17/2013	DUP (071713) 7/17/2013	SS-P2-22B (0.5-1.0) 7/17/2013	SS-P2-23B (0.5-1.0) 7/17/2013	SS-P2-24B (0.5-1.0) 7/17/2013
PCBs									
Aroclor 1016	NS	NS	mg/kg	< 0.0091	< 0.0091	< 0.0086	< 0.01	< 0.0094	< 0.0094
Aroclor 1221	NS	NS	mg/kg	< 0.021	< 0.021	< 0.02	< 0.024	< 0.022	< 0.022
Aroclor 1232	NS	NS	mg/kg	< 0.018	< 0.018	< 0.017	< 0.02	< 0.018	< 0.018
Aroclor 1242	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	< 0.013	< 0.011	< 0.011 J
Aroclor 1248	NS	NS	mg/kg	< 0.011	< 0.011	< 0.01	< 0.012	< 0.011	< 0.011 J
Aroclor 1254	NS	NS	mg/kg	< 0.016	< 0.016	< 0.016	< 0.019	< 0.017	< 0.017 J
Aroclor 1260	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	< 0.013	< 0.012	< 0.012 J
Aroclor 1262	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	< 0.013	< 0.011	< 0.011 J
Aroclor 1268	NS	NS	mg/kg	< 0.01	< 0.01	< 0.0097	< 0.012	< 0.011	< 0.011 J
Metals									
Aluminum	NS	NS	mg/kg	15700	20700	16100	15100	7610	13600
Antimony	NS	NS	mg/kg	0.6 J	0.63 J	0.33 J	1 J	0.71 J	0.48 J
Arsenic	16	16	mg/kg	3.4	3.5	2.8	4.6	2.5	3.7
Barium	400	820	mg/kg	48.3 J	70.8 J	57.4 J	65 J	63.4 J	70.5 J
Beryllium	72	47	mg/kg	0.99	1.1	0.98	1	0.58	1.1
Cadmium	4.3	7.5	mg/kg	< 0.077	< 0.08	< 0.078	< 0.088	< 0.079	< 0.08
Calcium	NS	NS	mg/kg	992 J	1160 J	1260 J	1490 J	2110 J	3640 J
Chromium	NS	NS	mg/kg	27.3 J	31.5 J	29.2 J	28.6 J	27.5 J	19.4 J
Cobalt	NS	NS	mg/kg	9 J	11 J	8.9 J	10.7 J	6.8 J	7.9 J
Copper	270	1,720	mg/kg	15.9 J	15.1 J	13.6 J	32 J	14.8 J	21.2 J
Iron	NS	NS	mg/kg	24500 J	31300 J	27100 J	27100 J	16100 J	24500 J
Lead	400	450	mg/kg	19.9	11.1	9.7	36.6	42.1	7.7
Magnesium	NS	NS	mg/kg	2960 J	4230 J	3850 J	3220 J	2430 J	3830 J
Manganese	2,000	2,000	mg/kg	812 J	896 J	731 J	867 J	309 J	356 J
Mercury	0.81	0.73	mg/kg	0.038 J	0.033 J	0.032 J	0.065 J	0.022 J	0.024 J
Nickel	310	130	mg/kg	17.7	20.1	18.7	18.4	10.2	14.8
Potassium	NS	NS	mg/kg	535 B	749 B	744 B	724 B	950 B	1850
Selenium	180	4	mg/kg	0.32 B	< 0.29	< 0.28	< 0.32	< 0.29	< 0.29
Silver	180	8.3	mg/kg	< 0.11	< 0.11	< 0.11	0.15 B	0.32 B	0.24 B
Sodium	NS	NS	mg/kg	73.2 B	102 B	108 B	110 B	170 J	292 J
Thallium	NS	NS	mg/kg	< 0.32	< 0.33	< 0.32	< 0.36	< 0.33	< 0.33
Vanadium	NS	NS	mg/kg	43.3 J	53 J	47.8 J	40.8 J	23.2 J	32.5 J
Zinc	10,000	2,480	mg/kg	59 J	63.7 J	48.6 J	69.1 J	31.2 J	37.8 J
Other									
Solids, Percent	NS	NS	%	93.9	86.8	92.5	82	88.9	85.7

Notes:

mg/kg

<

NA

UB

B

J or JN

R

Shade

Bold

Bold and Shade

Milligrams per kilogram

Not Detected

Not Analyzed

Result non-detected at the listed value due to associated blank contamination

Result is between the method detection limit and the reporting limit

Estimated Result

Rejected Result

Result axceeds the 375-6.8(b) restricted residential use

Result exceeds the 375-6.8(b) protection of groundwater

Result exceeds both 375-6.8(b) restricted residential use and protection of groundwate

Table 9. Summary of Post Excavation Analytical Results, Surface Scrape Operable Unit 1, Ramapo Paint Sludg

Sample ID	375-6.8(b)	375-6.8(b)		SS-P2-25B (0.5-1.0)	SS-P2-EAST-1B (1.0-1.5)	SS-P2-EAST-2B (1.0-1.5)	SS-P2-EAST-3B (0.5-1.0)	SS-P2-EAST-4B (0.5-1.0)	SS-P2-EAST-5B(1.0-1.5)
Sample Date	NYS Restricted	NYS Protection		7/17/2013	6/21/2013	6/21/2013	6/24/2013	6/24/2013	6/25/2013
VOCs									
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00013	< 0.00011 J	< 0.00011 J	< 0.00012	< 0.00013	< 0.00013
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00016	< 0.00014	< 0.00013	< 0.00015	< 0.00016	< 0.00016
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00021	< 0.00018	< 0.00017	< 0.0002	< 0.00021	< 0.00021
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00017	< 0.00014	< 0.00014	< 0.00016	< 0.00016	< 0.00016
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00031	< 0.00027	< 0.00026	< 0.0003	< 0.0003	< 0.0003
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00017	< 0.00014	< 0.00014	< 0.00016	< 0.00016	< 0.00016
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.0011	< 0.00092	< 0.00089	< 0.001	< 0.0011	< 0.0011
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00015	< 0.00013	< 0.00013	< 0.00015	< 0.00015	< 0.00015
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.00023	< 0.0002	< 0.00019	< 0.00022	< 0.00022	< 0.00022
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00016	< 0.00014 J	< 0.00013 J	< 0.00016	< 0.00016	< 0.00016
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00019	< 0.00016	< 0.00015	< 0.00018	< 0.00018	< 0.00018
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.00023	< 0.00019	< 0.00019	< 0.00022	< 0.00022	< 0.00022
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00021	< 0.00018	< 0.00018	< 0.0002	< 0.00021	< 0.00021
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0029	< 0.0025	< 0.0024	< 0.0028	< 0.0028	< 0.0028
2-Hexanone	NS	NS	mg/kg	< 0.00075	< 0.00064	< 0.00062	< 0.00072	< 0.00074	< 0.00073
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.00091	< 0.00078	< 0.00075	< 0.00086	< 0.00089	< 0.00089
Acetone	100	0.05	mg/kg	< 0.002	< 0.0017	< 0.0017	< 0.0019	< 0.002	< 0.002
Benzene	4.8	0.06	mg/kg	< 0.00014	< 0.00012	< 0.00012	< 0.00014	< 0.00014	< 0.00014
Bromodichloromethane	NS	NS	mg/kg	< 0.00013	< 0.00011	< 0.0001	< 0.00012	< 0.00012	< 0.00012
Bromoform	NS	NS	mg/kg	< 0.00018	< 0.00016	< 0.00015	< 0.00017	< 0.00018	< 0.00018
Bromomethane	NS	NS	mg/kg	< 0.00033	< 0.00028	< 0.00027	< 0.00031	< 0.00032	< 0.00032
Carbon disulfide	NS	NS	mg/kg	< 0.00014	< 0.00012	< 0.00012	< 0.00013	< 0.00014	< 0.00014
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00016	< 0.00014 J	< 0.00013 J	< 0.00015	< 0.00016	< 0.00016
Chlorobenzene	100	1.1	mg/kg	< 0.00013	< 0.00011	< 0.00011	< 0.00012	< 0.00013	< 0.00013
Chloroethane	NS	NS	mg/kg	< 0.00028	< 0.00023	< 0.00023	< 0.00026	< 0.00027	< 0.00027
Chloroform	49	0.37	mg/kg	< 0.0001	< 0.000085	< 0.000083	< 0.000095	< 0.000098	< 0.000098
Chloromethane	NS	NS	mg/kg	< 0.00023	< 0.00019	< 0.00019	< 0.00021	< 0.00022	< 0.00022
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00022	< 0.00019	< 0.00018	< 0.00021	< 0.00022	< 0.00022
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00017	< 0.00014	< 0.00014	< 0.00016	< 0.00016	< 0.00016
Cyclohexane	NS	NS	mg/kg	< 0.00015	< 0.00013	< 0.00012	< 0.00014	< 0.00015	< 0.00015
Dibromochloromethane	NS	NS	mg/kg	< 0.0002	< 0.00017	< 0.00016	< 0.00019	< 0.00019	< 0.00019
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00028	< 0.00024	< 0.00023	< 0.00026	< 0.00027	< 0.00027
Ethylbenzene	41	1	mg/kg	< 0.00032	< 0.00027	< 0.00026	< 0.0003	< 0.00031	< 0.00031
Freon 113	NS	NS	mg/kg	< 0.00052	< 0.00044	< 0.00043	< 0.0005	< 0.00051	< 0.00051
Isopropylbenzene	NS	NS	mg/kg	< 0.00009	< 0.000077	< 0.000074	< 0.000086	< 0.000088	< 0.000088
Methyl Acetate	NS	NS	mg/kg	< 0.0032	< 0.0027	< 0.0026	< 0.003	< 0.0031	< 0.0031
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00028	< 0.00024	< 0.00023	< 0.00027	< 0.00028	< 0.00028
Methylcyclohexane	NS	NS	mg/kg	< 0.0002	< 0.00017	< 0.00017	< 0.00019	< 0.0002	< 0.0002
Methylene chloride	100	0.05	mg/kg	0.0017 J	0.005 J	0.0046 J	< 0.0015	< 0.0015	0.0027 J
Styrene	NS	NS	mg/kg	< 0.00011	< 0.000095	< 0.000092	< 0.00011	< 0.00011	< 0.00011
Tetrachloroethene	19	1.3	mg/kg	< 0.00021	< 0.00018	< 0.00017	< 0.0002	< 0.0002	< 0.0002
Toluene	100	0.7	mg/kg	< 0.00013	0.00022 J	< 0.0001	< 0.00012	< 0.00012	< 0.00012
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00029	< 0.00025	< 0.00024	< 0.00027	< 0.00028	< 0.00028
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00019	< 0.00016	< 0.00015	< 0.00018	< 0.00018	< 0.00018
Trichloroethene	21	0.47	mg/kg	< 0.00021	< 0.00018	< 0.00017	< 0.0002	< 0.00021	< 0.00021
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00036	< 0.00031 J	< 0.0003 J	< 0.00034	< 0.00035	< 0.00035
Vinyl chloride	0.9	0.02	mg/kg	< 0.00017	< 0.00015	< 0.00014	< 0.00017	< 0.00017	< 0.00017
Xylene (total)	100	1.6	mg/kg	< 0.00017	< 0.00014	< 0.00014	< 0.00016	< 0.00016	< 0.00016
Total TIC, Volatile	NS	NS	mg/kg	0.0087 JN	0.0075 JN	0	0	0	0
SVOCs									
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0047	< 0.0047	< 0.0045	< 0.0046	< 0.0046	< 0.0042
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.047	< 0.047	< 0.045	< 0.046	< 0.046	< 0.042
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.038	< 0.038	< 0.037	< 0.038	< 0.038	< 0.034 J
2,4-Dichloropheno	NS	NS	mg/kg	< 0.065	< 0.065	< 0.063	< 0.064	< 0.064	< 0.058 J
2,4-Dimethylpheno	NS	NS	mg/kg	< 0.068	< 0.068	< 0.066	< 0.067	< 0.067	< 0.061

Table 9. Summary of Post Excavation Analytical Results, Surface Scrape Operable Unit 1, Ramapo Paint Sludg

Sample ID	375-6.8(b)	375-6.8(b)		SS-P2-25B (0.5-1.0)	SS-P2-EAST-1B (1.0-1.5)	SS-P2-EAST-2B (1.0-1.5)	SS-P2-EAST-3B (0.5-1.0)	SS-P2-EAST-4B (0.5-1.0)	SS-P2-EAST-5B(1.0-1.5)
Sample Date	NYS Restricted	NYS Protection		7/17/2013	6/21/2013	6/21/2013	6/24/2013	6/24/2013	6/25/2013
SVOCs cont.									
2,4-Dinitropheno	NS	NS	mg/kg	< 0.049 J	< 0.049 J	< 0.048 J	< 0.049 J	< 0.049 J	< 0.044 J
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.018	< 0.018	< 0.017	< 0.017 J	< 0.018 J	< 0.016 J
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.015	< 0.015	< 0.015	< 0.015 J	< 0.015 J	< 0.014 J
2-Chloronaphthalene	NS	NS	mg/kg	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.011
2-Chloropheno	NS	NS	mg/kg	< 0.041	< 0.041	< 0.04	< 0.04	< 0.04	< 0.037
2-Methylnaphthalene	NS	NS	mg/kg	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.02
2-Methylpheno	100	0.33	mg/kg	< 0.046	< 0.046	< 0.045	< 0.046	< 0.046	< 0.041
2-Nitroaniline	NS	NS	mg/kg	< 0.018	< 0.018	< 0.017	< 0.018	< 0.018	< 0.016 J
2-Nitrophenol	NS	NS	mg/kg	< 0.043	< 0.043	< 0.042	< 0.042 J	< 0.042 J	< 0.038 J
3&4-Methylpheno	NS	NS	mg/kg	< 0.051	< 0.051	< 0.05	< 0.051	< 0.051	< 0.046
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0092
3-Nitroaniline	NS	NS	mg/kg	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.015 J
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.049 J	< 0.049 J	< 0.048 J	< 0.049 J	< 0.049 J	< 0.044 J
4-Bromophenyl phenyl ethe	NS	NS	mg/kg	< 0.015	< 0.015	< 0.014	< 0.015	< 0.015	< 0.013
4-Chloro-3-methyl pheno	NS	NS	mg/kg	< 0.04	< 0.04	< 0.039	< 0.04	< 0.04	< 0.036
4-Chloroaniline	NS	NS	mg/kg	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.012
4-Chlorophenyl phenyl ethe	NS	NS	mg/kg	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.011
4-Nitroaniline	NS	NS	mg/kg	< 0.016	< 0.016	< 0.015	< 0.016	< 0.016	< 0.014
4-Nitrophenol	NS	NS	mg/kg	< 0.068	< 0.068	< 0.066	< 0.067 J	< 0.068 J	< 0.061
Acenaphthene	100	98	mg/kg	< 0.012	< 0.012	< 0.011	< 0.012	< 0.012	< 0.011
Acenaphthylene	100	107	mg/kg	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.012
Acetophenone	NS	NS	mg/kg	< 0.0071	< 0.0071 J	< 0.0069 J	< 0.007	< 0.0071	< 0.0064
Anthracene	100	1,000	mg/kg	0.041	< 0.014	< 0.014	0.0159 J	< 0.014	< 0.013
Atrazine	NS	NS	mg/kg	< 0.0079 J	< 0.0079 J	< 0.0077 J	< 0.0079	< 0.0079	< 0.0071 J
Benzaldehyde	NS	NS	mg/kg	< 0.0093	< 0.0093 J	< 0.009 J	< 0.0092 J	< 0.0092 J	< 0.0083
Benzo(a)anthracene	1	1	mg/kg	0.118	< 0.013	< 0.013	0.0586	0.0368 J	0.031 J
Benzo(a)pyrene	1	22	mg/kg	0.0936	< 0.012	< 0.012	0.0539	0.0357 J	0.0252 J
Benzo(b)fluoranthene	1	1.7	mg/kg	0.122	< 0.013	< 0.013	0.0755	0.0508	0.0326 J
Benzo(g,h,i)perylene	100	1,000	mg/kg	0.0639	< 0.015	< 0.015	0.0289 J	0.0172 J	0.0164 J
Benzo(k)fluoranthene	3.9	1.7	mg/kg	0.0439	< 0.015	< 0.015	0.0286 J	< 0.015	< 0.014
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.015
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.011
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.011
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.036	< 0.036	< 0.035	< 0.035	< 0.035	< 0.032
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.021
Caprolactam	NS	NS	mg/kg	< 0.013	< 0.013	< 0.012	< 0.013	< 0.013	< 0.011 J
Carbazole	NS	NS	mg/kg	< 0.019	< 0.019	< 0.018	< 0.018	< 0.019	< 0.017
Chrysene	3.9	1	mg/kg	0.12	< 0.014	< 0.013	0.061	0.0421	0.0337 J
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	0.0212 J	< 0.014	< 0.013	< 0.014	< 0.014	< 0.012
Dibenzofuran	59	210	mg/kg	< 0.012	< 0.012 J	< 0.012 J	< 0.012	< 0.012	< 0.011
Diethyl phthalate	NS	NS	mg/kg	< 0.014	< 0.014	< 0.013	< 0.014	< 0.014	< 0.012
Dimethyl phthalate	NS	NS	mg/kg	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.013
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0089	< 0.0089	< 0.0087	< 0.0089	< 0.0089	< 0.0081 J
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.02	< 0.02 J	< 0.019 J	< 0.019 J	< 0.02 J	< 0.018
Fluoranthene	100	1,000	mg/kg	0.224	< 0.018	< 0.017	0.121	0.0613	0.0596
Fluorene	100	386	mg/kg	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.012
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.012
Hexachlorobutadiene	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.01
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.041	< 0.041	< 0.04	< 0.041 J	< 0.041 J	< 0.037
Hexachloroethane	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.01
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	0.0723	< 0.014	< 0.014	0.0333 J	0.0203 J	0.0181 J
Isophorone	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.0098
Naphthalene	100	12	mg/kg	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.0099
Nitrobenzene	NS	NS	mg/kg	< 0.012	< 0.012	< 0.011	< 0.012	< 0.012	< 0.01
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0098	< 0.0098 J	< 0.0096 J	< 0.0097	< 0.0098	< 0.0089
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.024	< 0.024	< 0.023	< 0.024	< 0.024	< 0.022
Pentachloropheno	6.7	0.8	mg/kg	< 0.069	< 0.069	< 0.067	< 0.068 J	< 0.069 J	< 0.062 J
Phenanthrene	100	1,000	mg/kg	0.174	< 0.018	< 0.018	0.0514	0.0234 J	0.0351 J
Phenol	100	0.33	mg/kg	< 0.042	< 0.042	< 0.041	< 0.042	< 0.042	< 0.038
Pyrene	100	1,000	mg/kg	0.237	< 0.015	< 0.015	0.0919	0.0514	0.0536
Total TIC, Semi-Volatile	NS	NS	mg/kg	0	0	3.4 JN	0	2.1 JN	0.32 JN

Table 9. Summary of Post Excavation Analytical Results, Surface Scrape Operable Unit 1, Ramapo Paint Sludg

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		SS-P2-25B (0.5-1.0) 7/17/2013	SS-P2-EAST-1B (1.0-1.5) 6/21/2013	SS-P2-EAST-2B (1.0-1.5) 6/21/2013	SS-P2-EAST-3B (0.5-1.0) 6/24/2013	SS-P2-EAST-4B (0.5-1.0) 6/24/2013	SS-P2-EAST-5B(1.0-1.5) 6/25/2013
PCBs									
Aroclor 1016	NS	NS	mg/kg	< 0.0095	< 0.011	< 0.0096	< 0.01	< 0.011	< 0.0092
Aroclor 1221	NS	NS	mg/kg	< 0.022	< 0.025	< 0.022	< 0.024	< 0.024	< 0.021
Aroclor 1232	NS	NS	mg/kg	< 0.018	< 0.021	< 0.019	< 0.02	< 0.021	< 0.018
Aroclor 1242	NS	NS	mg/kg	< 0.012	< 0.013	< 0.012	< 0.013	< 0.013	< 0.011
Aroclor 1248	NS	NS	mg/kg	< 0.011	< 0.012	< 0.011	< 0.012	< 0.012	< 0.011
Aroclor 1254	NS	NS	mg/kg	< 0.017	< 0.019	< 0.017	< 0.018	< 0.019	< 0.017
Aroclor 1260	NS	NS	mg/kg	< 0.012	< 0.013	< 0.012	< 0.013	< 0.013	< 0.012
Aroclor 1262	NS	NS	mg/kg	< 0.012	< 0.013	< 0.012	< 0.013	< 0.013	< 0.011
Aroclor 1268	NS	NS	mg/kg	< 0.011	< 0.012	< 0.011	< 0.012	< 0.012	< 0.01
Metals									
Aluminum	NS	NS	mg/kg	7530	11000	7050	11500 J	9450 J	6270
Antimony	NS	NS	mg/kg	0.56 J	< 0.3	0.38 B	< 0.28	< 0.3	0.26 J
Arsenic	16	16	mg/kg	2.8	3.9	3	3.9	3.4	2.6
Barium	400	820	mg/kg	41.5 J	46.6	35.9	59.4	48.1	33
Beryllium	72	47	mg/kg	0.66	0.88	0.63	0.93	0.76	0.44
Cadmium	4.3	7.5	mg/kg	< 0.082	< 0.092	< 0.087	0.13 B	< 0.091	< 0.074
Calcium	NS	NS	mg/kg	2590 J	2710	2820	2970	2950	2680 J
Chromium	NS	NS	mg/kg	18.3 J	16.4	14.4	19.4	17	13.6
Cobalt	NS	NS	mg/kg	6.9 J	6.9	7	7.2	6.8	5.6
Copper	270	1,720	mg/kg	14.5 J	18.1	15.7	20.6	18.5	12.9
Iron	NS	NS	mg/kg	18300 J	19400	16200	21100	18600	15500
Lead	400	450	mg/kg	15.3	5.4	7.9	26.4	19	15.6
Magnesium	NS	NS	mg/kg	2840 J	2980	2670	3160	2960	2410
Manganese	2,000	2,000	mg/kg	400 J	363	429	423	398	268
Mercury	0.81	0.73	mg/kg	0.023 J	0.0085 B	0.011 B	0.054	0.032 B	0.02 B
Nickel	310	130	mg/kg	11.9	12.5	12	13.5	12.5	9.6
Potassium	NS	NS	mg/kg	919 B	1300	1160 B	1420	1260 B	864 B
Selenium	180	4	mg/kg	< 0.3	0.62 B	0.54 B	0.44 B	0.44 B	0.56 B
Silver	180	8.3	mg/kg	0.2 B	< 0.13	< 0.12	0.58 B	0.51 B	0.27 B
Sodium	NS	NS	mg/kg	187 J	232 B	225 B	212 B	191 B	183 J
Thallium	NS	NS	mg/kg	< 0.34	< 0.38	< 0.36	< 0.35	< 0.38	< 0.31
Vanadium	NS	NS	mg/kg	25.4 J	26.7	22	28.6	26.2	22.8
Zinc	10,000	2,480	mg/kg	36 J	30.5	29.1	43.6	38	29.1 J
Other									
Solids, Percent	NS	NS	%	82.5	79.3	84.8	83.5	79.5	90.1

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination
B	Result is between the method detection limit and the reporting limit
J or JN	Estimated Result
R	Rejected Result
Shade	Result axceeds the 375-6.8(b) restricted residential use
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater

Table 9. Summary of Post Excavation Analytical Results, Surface Scrape Operable Unit 1, Ramapo Paint Sludg

Sample ID	375-6.8(b)	375-6.8(b)		DUP(062513)	SS-P2-EAST-6B(1.0-1.5)	SS-P2-EAST-7B(1.0-1.5)	SS-P3-EAST-1B(0.5-1.0)	SS-P3-EAST-2B(0.5-1.0)	DUP(071213)
Sample Date	NYS Restricted	NYS Protection		6/25/2013	6/25/2013	6/25/2013	7/12/2013	7/12/2013	7/12/2013
VOCS									
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00012	< 0.00012 J	< 0.00012	< 0.00012	< 0.00012	< 0.00013
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00015	< 0.00014	< 0.00015	< 0.00015	< 0.00015	< 0.00016
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.0002	< 0.00019	< 0.0002	< 0.0002	< 0.0002	< 0.00021
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00016	< 0.00015 J	< 0.00016	< 0.00015	< 0.00015	< 0.00016
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00029	< 0.00028 J	< 0.00029	< 0.00029	< 0.00029	< 0.0003
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00016	< 0.00015	< 0.00016	< 0.00016	< 0.00016	< 0.00016
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.001	< 0.00097	< 0.001	< 0.001	< 0.001	< 0.0011
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00014	< 0.00014	< 0.00015	< 0.00014	< 0.00014	< 0.00015
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.00021	< 0.00021	< 0.00022	< 0.00021	< 0.00021	< 0.00022
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00016
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00017	< 0.00017 J	< 0.00018	< 0.00017	< 0.00017	< 0.00018
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.00021	< 0.0002	< 0.00021	< 0.00021	< 0.00021	< 0.00022
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.0002	< 0.00019	< 0.0002	< 0.0002	< 0.0002	< 0.00021
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0027	< 0.0026	< 0.0027	< 0.0027	< 0.0027	< 0.0028
2-Hexanone	NS	NS	mg/kg	< 0.00071	< 0.00068	< 0.00071	< 0.0007	< 0.0007	< 0.00073
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.00085	< 0.00082	< 0.00086	< 0.00085	< 0.00085	< 0.00089
Acetone	100	0.05	mg/kg	< 0.0019	< 0.0018	< 0.0019	< 0.0019	< 0.0019	< 0.002
Benzene	4.8	0.06	mg/kg	< 0.00014	< 0.00013 J	< 0.00014	< 0.00013	< 0.00013	< 0.00014
Bromodichloromethane	NS	NS	mg/kg	< 0.00012	< 0.00011	< 0.00012	< 0.00012	< 0.00012	< 0.00012
Bromoform	NS	NS	mg/kg	< 0.00017	< 0.00016	< 0.00017	< 0.00017	< 0.00017	< 0.00018
Bromomethane	NS	NS	mg/kg	< 0.00031	< 0.0003	< 0.00031	< 0.00031	< 0.00031	< 0.00032
Carbon disulfide	NS	NS	mg/kg	< 0.00013	< 0.00013 J	< 0.00013	< 0.00013	< 0.00013	< 0.00014
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00015	< 0.00015 J	< 0.00015	< 0.00015	< 0.00015	< 0.00016
Chlorobenzene	100	1.1	mg/kg	< 0.00012	< 0.00012 J	< 0.00012	< 0.00012	< 0.00012	< 0.00013
Chloroethane	NS	NS	mg/kg	< 0.00026	< 0.00025 J	< 0.00026	< 0.00026	< 0.00026	< 0.00027
Chloroform	49	0.37	mg/kg	< 0.000094	< 0.00009 J	< 0.000095	< 0.000093	< 0.000093	< 0.000098
Chloromethane	NS	NS	mg/kg	< 0.00021	< 0.0002 J	< 0.00021	< 0.00021	< 0.00021	< 0.00022
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00021	< 0.0002 J	< 0.00021	< 0.00021	< 0.00021	< 0.00022
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00016	< 0.00015	< 0.00016	< 0.00016	< 0.00016	< 0.00016
Cyclohexane	NS	NS	mg/kg	< 0.00014	< 0.00014 J	< 0.00014	< 0.00014	< 0.00014	< 0.00015
Dibromochloromethane	NS	NS	mg/kg	< 0.00019	< 0.00018	< 0.00019	< 0.00018	< 0.00019	< 0.00019
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00026	R	< 0.00026	< 0.00026	< 0.00026	< 0.00027
Ethylbenzene	41	1	mg/kg	< 0.0003	< 0.00029 J	< 0.0003	< 0.0003	< 0.0003	< 0.00031
Freon 113	NS	NS	mg/kg	< 0.00049	< 0.00047 J	< 0.00049	< 0.00048	< 0.00049	< 0.00051
Isopropylbenzene	NS	NS	mg/kg	< 0.000084	< 0.000081 J	< 0.000085	< 0.000084	< 0.000084	< 0.000088
Methyl Acetate	NS	NS	mg/kg	< 0.003	< 0.0028	< 0.003	< 0.0029	< 0.0029	< 0.0031
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00027	< 0.00026	< 0.00027	< 0.00026	< 0.00027	< 0.00028
Methylcyclohexane	NS	NS	mg/kg	< 0.00019	< 0.00018 J	< 0.00019	< 0.00019	< 0.00019	< 0.0002
Methylene chloride	100	0.05	mg/kg	0.0025 J	0.0035 J	< 0.0015	0.0024 J	0.0035 J	0.0031 J
Styrene	NS	NS	mg/kg	< 0.0001	< 0.0001	< 0.00011	< 0.0001	< 0.0001	< 0.00011
Tetrachloroethene	19	1.3	mg/kg	< 0.0002	< 0.00019 J	< 0.0002	< 0.00019	< 0.00019	< 0.0002
Toluene	100	0.7	mg/kg	< 0.00012	< 0.00011 J	< 0.00012	< 0.00012	< 0.00012	< 0.00012
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00027	< 0.00026 J	< 0.00027	< 0.00027	< 0.00027	< 0.00028
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00018	< 0.00017	< 0.00018	< 0.00017	< 0.00018	< 0.00018
Trichloroethene	21	0.47	mg/kg	< 0.0002	< 0.00019 J	< 0.0002	< 0.0002	< 0.0002	< 0.00021
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00034	< 0.00032 J	< 0.00034	< 0.00034	< 0.00034	< 0.00035
Vinyl chloride	0.9	0.02	mg/kg	< 0.00016	< 0.00016 J	< 0.00017	< 0.00016	< 0.00016	< 0.00017
Xylene (total)	100	1.6	mg/kg	< 0.00016	< 0.00015 J	< 0.00016	< 0.00016	< 0.00016	< 0.00016
Total TIC, Volatile	NS	NS	mg/kg	0	0	0	0	0	0
SVOCS									
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0042	< 0.004	< 0.0043	< 0.0044 J	< 0.0044 J	< 0.0041 J
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.042	< 0.04	< 0.043	< 0.044	< 0.044	< 0.041
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.034 J	< 0.032 J	< 0.034 J	< 0.036	< 0.036	< 0.033
2,4-Dichloropheno	NS	NS	mg/kg	< 0.058 J	< 0.056 J	< 0.059 J	< 0.061	< 0.061	< 0.057
2,4-Dimethylpheno	NS	NS	mg/kg	< 0.061	< 0.058	< 0.062	< 0.064	< 0.064	< 0.06

Table 9. Summary of Post Excavation Analytical Results, Surface Scrape Operable Unit 1, Ramapo Paint Sludg

Sample ID	375-6.8(b)	375-6.8(b)		DUP(062513)	SS-P2-EAST-6B(1.0-1.5)	SS-P2-EAST-7B(1.0-1.5)	SS-P3-EAST-1B(0.5-1.0)	SS-P3-EAST-2B(0.5-1.0)	DUP(071213)
Sample Date	NYS Restricted	NYS Protection		6/25/2013	6/25/2013	6/25/2013	7/12/2013	7/12/2013	7/12/2013
SVOCs cont.									
2,4-Dinitropheno	NS	NS	mg/kg	< 0.044 J	< 0.042 J	< 0.045 J	< 0.047	< 0.047	< 0.043
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.016 J	< 0.015 J	< 0.016 J	< 0.017	< 0.017	< 0.016
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.014 J	< 0.013 J	< 0.014 J	< 0.015	< 0.015	< 0.014
2-Chloronaphthalene	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	< 0.012 J	< 0.012 J	< 0.011 J
2-Chloropheno	NS	NS	mg/kg	< 0.037	< 0.035	< 0.037	< 0.039	< 0.039	< 0.036
2-Methylnaphthalene	NS	NS	mg/kg	< 0.02	< 0.019	< 0.02	< 0.021	< 0.021	< 0.02
2-Methylpheno	100	0.33	mg/kg	< 0.041	< 0.039	< 0.042	< 0.044	< 0.043	< 0.041
2-Nitroaniline	NS	NS	mg/kg	< 0.016 J	< 0.015 J	< 0.016 J	< 0.017 J	< 0.017 J	< 0.016 J
2-Nitrophenol	NS	NS	mg/kg	< 0.038 J	< 0.037 J	< 0.039 J	< 0.04	< 0.04	< 0.038
3&4-Methylpheno	NS	NS	mg/kg	< 0.046	< 0.044	< 0.047	< 0.048	< 0.048	< 0.045
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0092	< 0.0088	< 0.0093	< 0.0097	< 0.0097	< 0.009
3-Nitroaniline	NS	NS	mg/kg	< 0.014 J	< 0.014 J	< 0.015 J	< 0.015	< 0.015	< 0.014
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.044 J	< 0.042 J	< 0.045 J	< 0.047 J	< 0.047 J	< 0.043 J
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.013	< 0.013	< 0.013	< 0.014	< 0.014	< 0.013
4-Chloro-3-methyl pheno	NS	NS	mg/kg	< 0.036	< 0.035	< 0.037	< 0.038	< 0.038	< 0.036
4-Chloroaniline	NS	NS	mg/kg	< 0.012	< 0.011	< 0.012	< 0.012	< 0.012	< 0.011
4-Chlorophenyl phenyl ethe	NS	NS	mg/kg	< 0.011	< 0.01	< 0.011	< 0.011	< 0.011	< 0.011
4-Nitroaniline	NS	NS	mg/kg	< 0.014	< 0.013	< 0.014	< 0.015	< 0.015	< 0.014
4-Nitrophenol	NS	NS	mg/kg	< 0.061	< 0.058	< 0.062	< 0.065 J	< 0.064 J	< 0.06 J
Acenaphthene	100	98	mg/kg	< 0.01	< 0.01	< 0.011	< 0.011	< 0.011	< 0.01
Acenaphthylene	100	107	mg/kg	< 0.012	< 0.011	< 0.012	< 0.012 J	< 0.012 J	< 0.011 J
Acetophenone	NS	NS	mg/kg	< 0.0064	< 0.0061	< 0.0064	< 0.0067 J	< 0.0067 J	< 0.0063 J
Anthracene	100	1,000	mg/kg	< 0.013	< 0.012	< 0.013	< 0.013	< 0.013	< 0.012
Atrazine	NS	NS	mg/kg	< 0.0071 J	< 0.0068 J	< 0.0072 J	< 0.0075 J	< 0.0075 J	< 0.007 J
Benzaldehyde	NS	NS	mg/kg	< 0.0083	< 0.0079	< 0.0084	< 0.0088	< 0.0088	< 0.0082
Benzo(a)anthracene	1	1	mg/kg	0.0269 J	< 0.011	0.0409	0.0153 J	< 0.012	< 0.012
Benzo(a)pyrene	1	22	mg/kg	0.0235 J	< 0.011	0.0379	< 0.012	< 0.012	< 0.011
Benzo(b)fluoranthene	1	1.7	mg/kg	0.0272 J	< 0.012 J	0.0541 J	< 0.013	< 0.013	< 0.012
Benzo(g,h,i)perylene	100	1,000	mg/kg	0.0162 J	< 0.013	0.0273 J	< 0.014	< 0.014	< 0.013
Benzo(k)fluoranthene	3.9	1.7	mg/kg	0.0147 J	< 0.013	0.0214 J	< 0.014 J	< 0.014 J	< 0.013 J
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.015	< 0.014	< 0.015	< 0.015	< 0.015	< 0.014
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.011	< 0.01	< 0.011	< 0.011	< 0.011	< 0.011
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.011	< 0.01	< 0.011	< 0.011	< 0.011	< 0.011
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.032	< 0.03	< 0.032	< 0.034 J	< 0.034 J	< 0.031 J
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.021	< 0.02	< 0.021	< 0.022 J	< 0.022 J	< 0.021 J
Caprolactam	NS	NS	mg/kg	< 0.011 J	< 0.011 J	< 0.012 J	< 0.012	< 0.012	< 0.011
Carbazole	NS	NS	mg/kg	< 0.017	< 0.016	< 0.017	< 0.018	< 0.018	< 0.016
Chrysene	3.9	1	mg/kg	0.0296 J	< 0.012	0.052	0.0153 J	< 0.013	< 0.012
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.012	< 0.012	< 0.012	< 0.013	< 0.013	< 0.012
Dibenzofuran	59	210	mg/kg	< 0.011	< 0.01	< 0.011	< 0.011 J	< 0.011 J	< 0.011 J
Diethyl phthalate	NS	NS	mg/kg	< 0.012	< 0.012	< 0.012	< 0.013	< 0.013	< 0.012
Dimethyl phthalate	NS	NS	mg/kg	< 0.013	< 0.012	< 0.013	< 0.013	< 0.013	< 0.013
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.008 J	< 0.0077 J	< 0.0081 J	< 0.0085	< 0.0085	< 0.0079
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.018	< 0.017	< 0.018	< 0.019 J	< 0.019 J	< 0.017 J
Fluoranthene	100	1,000	mg/kg	0.0479	< 0.015	0.0783	0.0276 J	< 0.017	< 0.016
Fluorene	100	386	mg/kg	< 0.012	< 0.011	< 0.012	< 0.013	< 0.013	< 0.012
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.012	< 0.011	< 0.012	< 0.012	< 0.012	< 0.012
Hexachlorobutadiene	NS	NS	mg/kg	< 0.01	< 0.0096	< 0.01	< 0.011	< 0.011	< 0.0099
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.037	< 0.035	< 0.037	< 0.039	< 0.039	< 0.036
Hexachloroethane	NS	NS	mg/kg	< 0.01	< 0.0096	< 0.01	< 0.011	< 0.011	< 0.0099
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	0.0168 J	< 0.012 J	0.0302 J	< 0.013	< 0.013	< 0.012
Isophorone	NS	NS	mg/kg	< 0.0097	< 0.0093	< 0.0099	< 0.01	< 0.01	< 0.0096
Naphthalene	100	12	mg/kg	< 0.0099	< 0.0094	< 0.01	< 0.01 J	< 0.01 J	< 0.0097 J
Nitrobenzene	NS	NS	mg/kg	< 0.01	< 0.01	< 0.011	< 0.011	< 0.011	< 0.01
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0088	< 0.0084	< 0.0089	< 0.0093	< 0.0093	< 0.0087
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.022	< 0.021	< 0.022	< 0.023	< 0.023	< 0.021
Pentachloropheno	6.7	0.8	mg/kg	< 0.062 J	< 0.059 J	< 0.063 J	< 0.065 J	< 0.065 J	< 0.061 J
Phenanthrene	100	1,000	mg/kg	0.0259 J	< 0.016	0.0443	< 0.017	< 0.017	< 0.016
Phenol	100	0.33	mg/kg	< 0.038	< 0.036	< 0.038	< 0.04	< 0.04	< 0.037
Pyrene	100	1,000	mg/kg	0.0447	< 0.013	0.0787	0.0285 J	< 0.015	< 0.014
Total TIC, Semi-Volatile	NS	NS	mg/kg	0	0	2.75 JN	0	0	0

Table 9. Summary of Post Excavation Analytical Results, Surface Scrape Operable Unit 1, Ramapo Paint Sludg

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		DUP(062513) 6/25/2013	SS-P2-EAST-6B(1.0-1.5) 6/25/2013	SS-P2-EAST-7B(1.0-1.5) 6/25/2013	SS-P3-EAST-1B(0.5-1.0) 7/12/2013	SS-P3-EAST-2B(0.5-1.0) 7/12/2013	DUP(071213) 7/12/2013
PCBs									
Aroclor 1016	NS	NS	mg/kg	< 0.0099	< 0.0091	< 0.01	< 0.01	< 0.01	< 0.0097
Aroclor 1221	NS	NS	mg/kg	< 0.023	< 0.021	< 0.024	< 0.024	< 0.023	< 0.022
Aroclor 1232	NS	NS	mg/kg	< 0.019	< 0.018	< 0.02	< 0.02	< 0.02	< 0.019
Aroclor 1242	NS	NS	mg/kg	< 0.012	< 0.011	< 0.013	< 0.012	< 0.012	< 0.012
Aroclor 1248	NS	NS	mg/kg	< 0.012	< 0.011	< 0.012	< 0.012	< 0.012	< 0.011
Aroclor 1254	NS	NS	mg/kg	< 0.018	< 0.016	< 0.018	< 0.018	< 0.018	< 0.017
Aroclor 1260	NS	NS	mg/kg	< 0.012	< 0.011	< 0.013	< 0.013	< 0.013	< 0.012
Aroclor 1262	NS	NS	mg/kg	< 0.012	< 0.011	< 0.013	< 0.012	< 0.012	< 0.012
Aroclor 1268	NS	NS	mg/kg	< 0.011	< 0.01	< 0.012	< 0.012	< 0.011	< 0.011
Metals									
Aluminum	NS	NS	mg/kg	6250	4480	13800	14000 J	14100 J	11900 J
Antimony	NS	NS	mg/kg	0.38 J	< 0.25 J	0.63 J	0.61 J	0.58 J	0.49 J
Arsenic	16	16	mg/kg	2.6	2.1	4.1	3.1 J	2.9 J	2.6 J
Barium	400	820	mg/kg	29.6	23.6	52.1	58.3 J	51.5 J	42.4 J
Beryllium	72	47	mg/kg	0.45	0.42	0.82	0.83	0.8	0.7
Cadmium	4.3	7.5	mg/kg	< 0.082	< 0.074	0.15 B	< 0.085 J	< 0.08 J	< 0.081 J
Calcium	NS	NS	mg/kg	2800 J	2150 J	1200 J	3150 J	3350 J	3310 J
Chromium	NS	NS	mg/kg	13.9	11.2	27.1	18.6 J	17.9 J	16.6 J
Cobalt	NS	NS	mg/kg	5.3 B	4.6 B	7.7	8.8 J	9.1 J	8.1 J
Copper	270	1,720	mg/kg	11.7	8.3	15.7	24.8	22.3	20.4
Iron	NS	NS	mg/kg	15100	12500	23300	23800 J	24400 J	22000 J
Lead	400	450	mg/kg	14.7	2.9	29.1	7.1	6.2	5.7
Magnesium	NS	NS	mg/kg	2130	1920	3350	4540 J	4530 J	3820 J
Manganese	2,000	2,000	mg/kg	280	182	598	311 J	320 J	283 J
Mercury	0.81	0.73	mg/kg	0.032 B	0.012 B	0.083	0.022 B	0.0099 B	0.019 B
Nickel	310	130	mg/kg	9.3	7.7	16.2	14.8	15.1	13.4
Potassium	NS	NS	mg/kg	852 B	781 B	648 B	1720 J	1630 J	1350 J
Selenium	180	4	mg/kg	0.54 B	0.47 B	0.69 B	0.6 J	0.55 J	0.42 J
Silver	180	8.3	mg/kg	0.28 B	0.27 B	0.33 B	< 0.12 J	0.49 J	0.54 J
Sodium	NS	NS	mg/kg	181 J	127 J	104 B	212 B	197 B	196 B
Thallium	NS	NS	mg/kg	< 0.34	< 0.31	< 0.36	< 0.35	< 0.33	< 0.34
Vanadium	NS	NS	mg/kg	23.4	18.2	37.4	33.4	33.1	30.2
Zinc	10,000	2,480	mg/kg	27 J	16.3 J	58.6 J	48.9 J	35.8 J	33 J
Other									
Solids, Percent	NS	NS	%	86.4	91.7	82.2	83.7	85.1	84.7

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination
B	Result is between the method detection limit and the reporting limit
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater

Table 9. Summary of Post Excavation Analytical Results, Surface Scrape Operable Unit 1, Ramapo Paint Sludg

Sample ID	375-6.8(b)	375-6.8(b)		PE-P1-CELLO-7B (2.0-2.5)	PE-P1-CELLO-4SW (1.0-1.5)	PE-P1-CELL0-5SW (1.0-1.5)
Sample Date	NYS Restricted	NYS Protection		11/20/2013	11/20/2013	12/10/2013
VOCs						
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00032	< 0.0003	< 0.00038
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00038	< 0.00036	< 0.00045
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00092	< 0.00086	< 0.0011
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00035	< 0.00033	< 0.00041
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00032	< 0.0003	< 0.00038
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.0002	< 0.00019	< 0.00024
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.0015	< 0.0014	< 0.0017
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00061	< 0.00057	< 0.00072
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.00038	< 0.00035	< 0.00044
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00036	< 0.00034	< 0.00042
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00049	< 0.00046	< 0.00057
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.00024	< 0.00023	< 0.00029
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00028	< 0.00026	< 0.00033
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0049	< 0.0046	< 0.0058
2-Hexanone	NS	NS	mg/kg	< 0.002	< 0.0019	< 0.0023
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.0015	< 0.0014	< 0.0017
Acetone	100	0.05	mg/kg	< 0.0051	< 0.0048	< 0.006
Benzene	4.8	0.06	mg/kg	< 0.00014	< 0.00013	< 0.00017
Bromodichloromethane	NS	NS	mg/kg	< 0.00031	< 0.00029	< 0.00037
Bromoform	NS	NS	mg/kg	< 0.00029	< 0.00027	< 0.00034
Bromomethane	NS	NS	mg/kg	< 0.00054	< 0.0005	< 0.00063
Carbon disulfide	NS	NS	mg/kg	< 0.00016	< 0.00015	< 0.00018
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00028	< 0.00026	< 0.00033
Chlorobenzene	100	1.1	mg/kg	< 0.00022	< 0.00021	< 0.00026
Chloroethane	NS	NS	mg/kg	< 0.0011	< 0.001	< 0.0013
Chloroform	49	0.37	mg/kg	< 0.00028	< 0.00027	< 0.00033
Chloromethane	NS	NS	mg/kg	< 0.00038	< 0.00036	< 0.00045
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00023	< 0.00022	< 0.00027
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00025	< 0.00024	< 0.0003
Cyclohexane	NS	NS	mg/kg	< 0.00029	< 0.00027	< 0.00034
Dibromochloromethane	NS	NS	mg/kg	< 0.00027	< 0.00025	< 0.00032
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00039	< 0.00037	< 0.00046
Ethylbenzene	41	1	mg/kg	0.00041 J	< 0.00018	< 0.00023
Freon 113	NS	NS	mg/kg	< 0.00049	< 0.00046	< 0.00057
Isopropylbenzene	NS	NS	mg/kg	< 0.00016	< 0.00015	< 0.00019
Methyl Acetate	NS	NS	mg/kg	< 0.0019	< 0.0018	< 0.0022
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00038	< 0.00036	< 0.00045
Methylcyclohexane	NS	NS	mg/kg	< 0.00018	< 0.00017	< 0.00022
Methylene chloride	100	0.05	mg/kg	< 0.0019	< 0.0018	< 0.0022
Styrene	NS	NS	mg/kg	< 0.00026	< 0.00024	< 0.0003
Tetrachloroethene	19	1.3	mg/kg	< 0.00046	< 0.00043	< 0.00054
Toluene	100	0.7	mg/kg	< 0.00016	< 0.00015	< 0.00019
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00047	< 0.00044	< 0.00055
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.0003	< 0.00028	< 0.00035
Trichloroethene	21	0.47	mg/kg	< 0.00039	< 0.00037	< 0.00046
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00025	< 0.00024	< 0.0003
Vinyl chloride	0.9	0.02	mg/kg	< 0.00038	< 0.00036	< 0.00045
Xylene (total)	100	1.6	mg/kg	0.0049	< 0.00019	< 0.00023
Total TIC, Volatile	NS	NS	mg/kg	0	0	0
SVOCs						
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0041	< 0.0041	< 0.0046
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.041	< 0.041	< 0.046
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.033	< 0.033	< 0.037
2,4-Dichloropheno	NS	NS	mg/kg	< 0.057	< 0.057	< 0.064
2,4-Dimethylpheno	NS	NS	mg/kg	< 0.059	< 0.06	< 0.067

Table 9. Summary of Post Excavation Analytical Results, Surface Scrape Operable Unit 1, Ramapo Paint Sludg

Sample ID	375-6.8(b)	375-6.8(b)		PE-P1-CELLO-7B (2.0-2.5)	PE-P1-CELLO-4SW (1.0-1.5)	PE-P1-CELL0-5SW (1.0-1.5)
Sample Date	NYS Restricted	NYS Protection		11/20/2013	11/20/2013	12/10/2013
SVOCs cont.						
2,4-Dinitropheno	NS	NS	mg/kg	< 0.043	< 0.043	< 0.049
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.015	< 0.016	< 0.017
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.013	< 0.014	< 0.015
2-Chloronaphthalene	NS	NS	mg/kg	< 0.011	< 0.011	< 0.012
2-Chloropheno	NS	NS	mg/kg	< 0.036	< 0.036	< 0.04
2-Methylnaphthalene	NS	NS	mg/kg	< 0.02	< 0.02	< 0.022
2-Methylpheno	100	0.33	mg/kg	< 0.04	< 0.041	< 0.045
2-Nitroaniline	NS	NS	mg/kg	< 0.016	< 0.016	< 0.018
2-Nitrophenol	NS	NS	mg/kg	< 0.037	< 0.038	< 0.042
3&4-Methylpheno	NS	NS	mg/kg	< 0.045	< 0.045	< 0.051
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.009	< 0.0091	< 0.01
3-Nitroaniline	NS	NS	mg/kg	< 0.014	< 0.014	< 0.016
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.043 J	< 0.043 J	< 0.049 J
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.013	< 0.013	< 0.014
4-Chloro-3-methyl pheno	NS	NS	mg/kg	< 0.035	< 0.036	< 0.04
4-Chloroaniline	NS	NS	mg/kg	< 0.011	< 0.011	< 0.013
4-Chlorophenyl phenyl ethe	NS	NS	mg/kg	< 0.011	< 0.011	< 0.012
4-Nitroaniline	NS	NS	mg/kg	< 0.014	< 0.014	< 0.016 J
4-Nitrophenol	NS	NS	mg/kg	< 0.06	< 0.06 J	< 0.067
Acenaphthene	100	98	mg/kg	< 0.01	< 0.01	0.0658
Acenaphthylene	100	107	mg/kg	< 0.011	0.0256 J	0.238
Acetophenone	NS	NS	mg/kg	< 0.0062	< 0.0063	< 0.007
Anthracene	100	1,000	mg/kg	< 0.012	0.0412	0.316
Atrazine	NS	NS	mg/kg	< 0.007	< 0.007	< 0.0079
Benzaldehyde	NS	NS	mg/kg	< 0.0081	< 0.0082	< 0.0092
Benzo(a)anthracene	1	1	mg/kg	0.0472	0.128	1.33
Benzo(a)pyrene	1	22	mg/kg	0.0432	0.114	1.24
Benzo(b)fluoranthene	1	1.7	mg/kg	0.0569	0.144	1.77
Benzo(g,h,i)perylene	100	1,000	mg/kg	0.0291 J	0.0758	0.759
Benzo(k)fluoranthene	3.9	1.7	mg/kg	0.0216 J	0.0518	0.539
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.014	< 0.014	< 0.016
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.011	< 0.011	< 0.012
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.01	< 0.011	< 0.012
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	0.0396 J	0.153	0.0671 J
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.02	< 0.021	< 0.023
Caprolactam	NS	NS	mg/kg	< 0.011	< 0.011	< 0.013 J
Carbazole	NS	NS	mg/kg	< 0.016	< 0.017	0.118
Chrysene	3.9	1	mg/kg	0.0502	0.13	1.36
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.012	0.0198 J	0.232
Dibenzofuran	59	210	mg/kg	< 0.01	< 0.011	0.0345 J
Diethyl phthalate	NS	NS	mg/kg	< 0.012	< 0.012	< 0.014
Dimethyl phthalate	NS	NS	mg/kg	< 0.012	< 0.013	< 0.014
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0078	< 0.0079	< 0.0088
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.017	< 0.017	< 0.019
Fluoranthene	100	1,000	mg/kg	0.0893	0.274	2.93
Fluorene	100	386	mg/kg	< 0.012	< 0.012	0.0776
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.012	< 0.012	< 0.013
Hexachlorobutadiene	NS	NS	mg/kg	< 0.0098	< 0.0099	< 0.011
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.036 J	< 0.036 J	< 0.041 J
Hexachloroethane	NS	NS	mg/kg	< 0.0098	< 0.0099	< 0.011
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	0.024 J	0.0592	0.701
Isophorone	NS	NS	mg/kg	< 0.0095	< 0.0096	< 0.011
Naphthalene	100	12	mg/kg	< 0.0096	< 0.0097	0.022 J
Nitrobenzene	NS	NS	mg/kg	< 0.01	< 0.01	< 0.012
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0086	< 0.0087	< 0.0097
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.021	0.0321 J	< 0.024
Pentachloropheno	6.7	0.8	mg/kg	< 0.06 J	< 0.061 J	< 0.068 J
Phenanthrene	100	1,000	mg/kg	0.0473	0.142	1.17
Phenol	100	0.33	mg/kg	< 0.037 J	< 0.037	< 0.042
Pyrene	100	1,000	mg/kg	0.0816	0.227	2.37
Total TIC, Semi-Volatile	NS	NS	mg/kg	2.54 J	4.39 J	9.1 J

Table 9. Summary of Post Excavation Analytical Results, Surface Scrape Operable Unit 1, Ramapo Paint Sludg

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P1-CELLO-7B (2.0-2.5) 11/20/2013	PE-P1-CELLO-4SW (1.0-1.5) 11/20/2013	PE-P1-CELL0-5SW (1.0-1.5) 12/10/2013
PCBs						
Aroclor 1016	NS	NS	mg/kg	< 0.0095 J	< 0.0091	< 0.011
Aroclor 1221	NS	NS	mg/kg	< 0.022 J	< 0.021	< 0.025
Aroclor 1232	NS	NS	mg/kg	< 0.018 J	< 0.018	< 0.021
Aroclor 1242	NS	NS	mg/kg	< 0.012 J	< 0.011	< 0.013
Aroclor 1248	NS	NS	mg/kg	< 0.011 J	< 0.011	< 0.013
Aroclor 1254	NS	NS	mg/kg	< 0.017 J	< 0.016	< 0.019
Aroclor 1260	NS	NS	mg/kg	< 0.012 J	< 0.012	< 0.013
Aroclor 1262	NS	NS	mg/kg	< 0.012 J	< 0.011	< 0.013
Aroclor 1268	NS	NS	mg/kg	< 0.011 J	< 0.01	< 0.012
Metals						
Aluminum	NS	NS	mg/kg	12900 J	11800 J	10800
Antimony	NS	NS	mg/kg	1.4 J	23.5 J	2.8
Arsenic	16	16	mg/kg	5.8	14.6	6.3
Barium	400	820	mg/kg	201	1990	157
Beryllium	72	47	mg/kg	0.58	0.65	0.8
Cadmium	4.3	7.5	mg/kg	0.17 B	0.51 B	0.56 B
Calcium	NS	NS	mg/kg	2940 J	2120 J	2870
Chromium	NS	NS	mg/kg	22.6	34.4	28.5
Cobalt	NS	NS	mg/kg	12	9	9.3
Copper	270	1,720	mg/kg	26.4 J	42.3 J	30.4
Iron	NS	NS	mg/kg	26500	22500	21000
Lead	400	450	mg/kg	239	2130 J	250
Magnesium	NS	NS	mg/kg	4620 J	3180 J	3250
Manganese	2,000	2,000	mg/kg	634 J	555	945
Mercury	0.81	0.73	mg/kg	0.053	0.09	0.19
Nickel	310	130	mg/kg	22.7	17.3	16.8
Potassium	NS	NS	mg/kg	1310	1190 J	761 B
Selenium	180	4	mg/kg	4.5	5.6	0.61 B
Silver	180	8.3	mg/kg	0.56	0.37 J	0.34 B
Sodium	NS	NS	mg/kg	192 B	173 B	126 B
Thallium	NS	NS	mg/kg	< 0.31	< 0.32	< 0.37
Vanadium	NS	NS	mg/kg	36.4	34.3	31.1
Zinc	10,000	2,480	mg/kg	94.1 J	200 J	123
Other						
Solids, Percent	NS	NS	%	89.6	91.7	79.4

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination
B	Result is between the method detection limit and the reporting limit
J or JN	Estimated Result
R	Rejected Result
Shade	Result axceeds the 375-6.8(b) restricted residential use
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater

Table 10. Summary of Post Excavation Analytical Results, Utility Corridor, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID	375-6.8(b)	375-6.8(b)		PE-P1-CELL 1-1B(6.0-6.5)	PE-P1-CELL 1-1SW(3.0-3.5)	PE-P1-CELL 1-2SW(3.0-3.5)	PE-P1-CELL5-4B(8.0-8.5)	PE-P1-CELL6-5B(6.5-7.0)
Sample Date	NYS Restricted	NYS Protection		2/20/2013	2/20/2013	2/20/2013	2/25/2013	2/26/2013
VOCs								
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.000094	< 0.000099	< 0.00011	< 0.00012	< 0.00011
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00012	< 0.00012	< 0.00014	< 0.00015	< 0.00014
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00015	< 0.00016	< 0.00018	< 0.0002	< 0.00018
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00012	< 0.00013	< 0.00015	< 0.00016	< 0.00014
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00023	< 0.00024	< 0.00027	< 0.0003	< 0.00027
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00012	< 0.00013	< 0.00015	< 0.00016	< 0.00014
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.00079	< 0.00083	< 0.00094	< 0.001	< 0.00093 J
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00011	< 0.00012	< 0.00013	< 0.00015	< 0.00013
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.00017	< 0.00018	< 0.0002	< 0.00022	< 0.0002
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00012	< 0.00013	< 0.00014	< 0.00016	< 0.00014
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00014	< 0.00014	< 0.00016	< 0.00018	< 0.00016
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.00017	< 0.00018	< 0.0002	< 0.00022	< 0.00019
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00016	< 0.00016	< 0.00019	< 0.0002	< 0.00018
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0021	< 0.0022	< 0.0025	< 0.0028	< 0.0025
2-Hexanone	NS	NS	mg/kg	< 0.00055	< 0.00058	< 0.00066	< 0.00072	< 0.00065 J
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.00067	< 0.0007	< 0.0008	< 0.00087	< 0.00078 J
Acetone	100	0.05	mg/kg	< 0.0015	< 0.0016	< 0.0018	< 0.002	< 0.0018
Benzene	4.8	0.06	mg/kg	< 0.00011	< 0.00011	< 0.00013	< 0.00014	< 0.00012
Bromodichloromethane	NS	NS	mg/kg	< 0.000093	< 0.000098	< 0.00011	< 0.00012	< 0.00011
Bromoform	NS	NS	mg/kg	< 0.00013	< 0.00014	< 0.00016	< 0.00018	< 0.00016 J
Bromomethane	NS	NS	mg/kg	< 0.00024	< 0.00026	< 0.00029	< 0.00032	< 0.00028 J
Carbon disulfide	NS	NS	mg/kg	< 0.0001	< 0.00011	< 0.00012	< 0.00014	< 0.00012
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00012	< 0.00012	< 0.00014	< 0.00015	< 0.00014
Chlorobenzene	100	1.1	mg/kg	< 0.000096	< 0.0001	< 0.00011	< 0.00013	< 0.00011
Chloroethane	NS	NS	mg/kg	< 0.0002	< 0.00021	< 0.00024	< 0.00026	< 0.00024 J
Chloroform	49	0.37	mg/kg	< 0.000073	< 0.000077	< 0.000088	< 0.000096	< 0.000086
Chloromethane	NS	NS	mg/kg	< 0.00016	< 0.00017	< 0.0002	< 0.00022	< 0.00019
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00016	< 0.00017	< 0.00019	< 0.00021	< 0.00019
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00012	< 0.00013	< 0.00015	< 0.00016	< 0.00014
Cyclohexane	NS	NS	mg/kg	< 0.00011	< 0.00012	< 0.00013	< 0.00014	< 0.00013
Dibromochloromethane	NS	NS	mg/kg	< 0.00015	< 0.00015	< 0.00017	< 0.00019	< 0.00017
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.0002	< 0.00021	< 0.00024	< 0.00026	< 0.00024
Ethylbenzene	41	1	mg/kg	< 0.00023	< 0.00025	< 0.00028	< 0.00031	0.0013
Freon 113	NS	NS	mg/kg	< 0.00038	< 0.0004	< 0.00046	< 0.0005	< 0.00045
Isopropylbenzene	NS	NS	mg/kg	< 0.000066	< 0.00007	< 0.000079	< 0.000086	< 0.000077
Methyl Acetate	NS	NS	mg/kg	< 0.0023	< 0.0024	< 0.0028	< 0.003	< 0.0027 J
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00021	< 0.00022	< 0.00025	< 0.00027	< 0.00024
Methylcyclohexane	NS	NS	mg/kg	< 0.00015	< 0.00016	< 0.00018	< 0.0002	< 0.00018
Methylene chloride	100	0.05	mg/kg	< 0.0011	< 0.0012	< 0.0013	< 0.0015	< 0.0013
Styrene	NS	NS	mg/kg	< 0.000081	< 0.000086	< 0.000097	< 0.00011	< 0.000095
Tetrachloroethene	19	1.3	mg/kg	< 0.00015	< 0.00016	< 0.00018	< 0.0002	< 0.00018
Toluene	100	0.7	mg/kg	< 0.000093	< 0.000098	< 0.00011	< 0.00012	0.00075 J
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00021	< 0.00022	< 0.00025	< 0.00028	< 0.00025
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00014	< 0.00015	< 0.00016	< 0.00018	< 0.00016
Trichloroethene	21	0.47	mg/kg	< 0.00015	< 0.00016	< 0.00018	< 0.0002	< 0.00018
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00026	< 0.00028	< 0.00032	< 0.00035	< 0.00031
Vinyl chloride	0.9	0.02	mg/kg	< 0.00013	< 0.00013	< 0.00015	< 0.00017	< 0.00015
Xylene (total)	100	1.6	mg/kg	< 0.00012	< 0.00013	< 0.00015	0.002	0.0095
Total TIC, Volatile	NS	NS	mg/kg	0	0	0	0	0
SVOCs								
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0041	< 0.0042	< 0.0042	< 0.0039	< 0.0035
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.041	< 0.042	< 0.042	< 0.039	< 0.035
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.033	< 0.034	< 0.034	< 0.031	< 0.029
2,4-Dichlorophenol	NS	NS	mg/kg	< 0.057	< 0.058	< 0.059	< 0.054	< 0.049
2,4-Dimethylphenol	NS	NS	mg/kg	< 0.059	< 0.061	< 0.061	< 0.056	< 0.051

Table 10. Summary of Post Excavation Analytical Results, Utility Corridor, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID	375-6.8(b)	375-6.8(b)		PE-P1-CELL 1-1B(6.0-6.5)	PE-P1-CELL 1-1SW(3.0-3.5)	PE-P1-CELL 1-2SW(3.0-3.5)	PE-P1-CELL5-4B(8.0-8.5)	PE-P1-CELL6-5B(6.5-7.0)
Sample Date	NYS Restricted	NYS Protection		2/20/2013	2/20/2013	2/20/2013	2/25/2013	2/26/2013
SVOCs cont.								
2,4-Dinitrophenol	NS	NS	mg/kg	< 0.043 J	< 0.044	< 0.044 J	< 0.041	< 0.037 J
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.015	< 0.016	< 0.016	< 0.015	< 0.013 J
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.013	< 0.014	< 0.014	< 0.013	< 0.012 J
2-Chloronaphthalene	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	< 0.01	< 0.0094
2-Chlorophenol	NS	NS	mg/kg	< 0.035	< 0.037	< 0.037	< 0.034	< 0.031
2-Methylnaphthalene	NS	NS	mg/kg	< 0.02	< 0.02	< 0.02	< 0.019	< 0.017
2-Methylphenol	100	0.33	mg/kg	< 0.04	< 0.041	< 0.042	< 0.038	< 0.035
2-Nitroaniline	NS	NS	mg/kg	< 0.015	< 0.016	< 0.016	< 0.015	< 0.013
2-Nitrophenol	NS	NS	mg/kg	< 0.037	< 0.038	< 0.039	< 0.035	< 0.032
3&4-Methylphenol	NS	NS	mg/kg	< 0.045	< 0.046	< 0.046	< 0.042	< 0.039
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0089	< 0.0092	< 0.0093	< 0.0085	< 0.0077
3-Nitroaniline	NS	NS	mg/kg	< 0.014	< 0.014	< 0.015	< 0.013	< 0.012 J
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.043 J	< 0.044	< 0.044 J	< 0.041	< 0.037 J
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.013	< 0.013	< 0.013	< 0.012	< 0.011
4-Chloro-3-methyl phenol	NS	NS	mg/kg	< 0.035	< 0.036	< 0.036	< 0.033	< 0.03
4-Chloroaniline	NS	NS	mg/kg	< 0.011	< 0.012	< 0.012	< 0.011	< 0.0097
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	< 0.01	< 0.0091
4-Nitroaniline	NS	NS	mg/kg	< 0.014	< 0.014	< 0.014	< 0.013	< 0.012
4-Nitrophenol	NS	NS	mg/kg	< 0.059	< 0.061	< 0.062	< 0.056	< 0.051
Acenaphthene	100	98	mg/kg	< 0.01	< 0.011	< 0.011	< 0.0097	< 0.0088
Acenaphthylene	100	107	mg/kg	< 0.011	< 0.012	< 0.012	< 0.011	< 0.0097
Acetophenone	NS	NS	mg/kg	< 0.0062	< 0.0064	< 0.0064	< 0.0059	< 0.0053
Anthracene	100	1,000	mg/kg	< 0.012	< 0.013	< 0.013	< 0.012	< 0.011
Atrazine	NS	NS	mg/kg	< 0.0069	< 0.0071	< 0.0072	< 0.0066	< 0.006
Benzaldehyde	NS	NS	mg/kg	< 0.0081	< 0.0083	< 0.0084	< 0.0077	< 0.007
Benzo(a)anthracene	1	1	mg/kg	< 0.011	0.0164 J	< 0.012	< 0.011	< 0.0099
Benzo(a)pyrene	1	22	mg/kg	< 0.011	< 0.011	< 0.011	< 0.01	< 0.0093
Benzo(b)fluoranthene	1	1.7	mg/kg	< 0.012	< 0.012	< 0.012	< 0.011	< 0.01
Benzo(g,h,i)perylene	100	1,000	mg/kg	< 0.013	< 0.013	< 0.014	< 0.012	< 0.011
Benzo(k)fluoranthene	3.9	1.7	mg/kg	< 0.013	< 0.014	< 0.014	< 0.013	< 0.011
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.014	< 0.015	< 0.015	< 0.013	< 0.012
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	< 0.01	< 0.0091
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.01	< 0.011	< 0.011	< 0.0099	< 0.009
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.031	< 0.032	< 0.032	< 0.029	0.264 J
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.02	< 0.021	< 0.021	< 0.019	< 0.018
Caprolactam	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	< 0.011	< 0.0096
Carbazole	NS	NS	mg/kg	< 0.016	< 0.017	< 0.017	< 0.015	< 0.014
Chrysene	3.9	1	mg/kg	< 0.012	0.0156 J	< 0.012	< 0.011	< 0.01
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.012	< 0.012	< 0.012	< 0.011	< 0.01
Dibenzofuran	59	210	mg/kg	< 0.01	< 0.011	< 0.011	< 0.0099	< 0.009
Diethyl phthalate	NS	NS	mg/kg	< 0.012	< 0.012	< 0.012	< 0.011	< 0.01
Dimethyl phthalate	NS	NS	mg/kg	< 0.012	0.0478 J	< 0.013	< 0.012	< 0.011
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0078	< 0.008	< 0.0081	< 0.0074	< 0.0067
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.017	< 0.018	< 0.018	< 0.016	< 0.015 J
Fluoranthene	100	1,000	mg/kg	0.0152 J	0.0262 J	< 0.016	< 0.015	< 0.013
Fluorene	100	386	mg/kg	< 0.012	< 0.012	< 0.012	< 0.011	< 0.01
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.011	< 0.012	< 0.012	< 0.011	< 0.0099
Hexachlorobutadiene	NS	NS	mg/kg	< 0.0098	< 0.01	< 0.01	< 0.0093	< 0.0084
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.036	< 0.037 J	< 0.037	< 0.034	< 0.031 J
Hexachloroethane	NS	NS	mg/kg	< 0.0098	< 0.01	< 0.01	< 0.0093	< 0.0084
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	< 0.012	< 0.013	< 0.013	< 0.012	< 0.011
Isophorone	NS	NS	mg/kg	< 0.0095	< 0.0097	< 0.0098	< 0.009	< 0.0082
Naphthalene	100	12	mg/kg	< 0.0096	< 0.0099	< 0.0099	< 0.0091	< 0.0083
Nitrobenzene	NS	NS	mg/kg	< 0.01	< 0.01	< 0.011	< 0.0096	< 0.0088

Table 10. Summary of Post Excavation Analytical Results, Utility Corridor, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P1-CELL 1-1B(6.0-6.5) 2/20/2013	PE-P1-CELL 1-1SW(3.0-3.5) 2/20/2013	PE-P1-CELL 1-2SW(3.0-3.5) 2/20/2013	PE-P1-CELL5-4B(8.0-8.5) 2/25/2013	PE-P1-CELL6-5B(6.5-7.0) 2/26/2013
SVOCs cont.								
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0086	< 0.0088	< 0.0089	< 0.0081	< 0.0074
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.021	< 0.022	< 0.022	< 0.02	< 0.018
Pentachlorophenol	6.7	0.8	mg/kg	< 0.06	< 0.062	< 0.062	< 0.057	< 0.052 J
Phenanthrene	100	1,000	mg/kg	< 0.016	< 0.016	< 0.017	< 0.015	0.0202 J
Phenol	100	0.33	mg/kg	< 0.037	< 0.038	< 0.038	< 0.035	< 0.032
Pyrene	100	1,000	mg/kg	0.0142 J	0.0247 J	< 0.014	< 0.013	< 0.012
Total TIC, Semi-Volatile	NS	NS	mg/kg	0	0	15.3 J	0.19 JN	0.8 JN
PCBs								
Aroclor 1016	NS	NS	mg/kg	< 0.009	< 0.0099	< 0.009	< 0.0085	< 0.0088
Aroclor 1221	NS	NS	mg/kg	< 0.021	< 0.023	< 0.021	< 0.02	< 0.02
Aroclor 1232	NS	NS	mg/kg	< 0.017	< 0.019	< 0.018	< 0.017	< 0.017
Aroclor 1242	NS	NS	mg/kg	< 0.011	< 0.012	< 0.011	< 0.01	< 0.011
Aroclor 1248	NS	NS	mg/kg	< 0.01	< 0.012	< 0.011	< 0.01	< 0.01
Aroclor 1254	NS	NS	mg/kg	< 0.016	< 0.018	< 0.016	< 0.015	< 0.016
Aroclor 1260	NS	NS	mg/kg	< 0.011	< 0.013	< 0.011	< 0.011	< 0.011
Aroclor 1262	NS	NS	mg/kg	NA	NA	NA	NA	NA
Aroclor 1268	NS	NS	mg/kg	NA	NA	NA	NA	NA
Metals								
Aluminum	NS	NS	mg/kg	8520	11500	8770	7210	7770
Antimony	NS	NS	mg/kg	0.5 B	0.52 B	0.46 B	1.2 B	0.59 B
Arsenic	16	16	mg/kg	3.5	3.7	6.1	2.9	2.9
Barium	400	820	mg/kg	77.3	54.3	26.6	42	47.7
Beryllium	72	47	mg/kg	0.68	0.71	0.55	0.95	0.49
Cadmium	4.3	7.5	mg/kg	0.068 B	0.14 B	0.1 B	0.21 B	0.084 B
Calcium	NS	NS	mg/kg	2440	2670	31600	2750	1960
Chromium	NS	NS	mg/kg	24.2	21.4	12.1	19.7	15.4
Cobalt	NS	NS	mg/kg	6.9	8.6	5.9	6.3	7.6
Copper	270	1,720	mg/kg	12.4	13.9	16.4	9.8	12.1
Iron	NS	NS	mg/kg	22300	24400	18200	18500	18800
Lead	400	450	mg/kg	47.8	21.5	13.4	75.7	8.6
Magnesium	NS	NS	mg/kg	3310	4260	14600	4110	3560
Manganese	2,000	2,000	mg/kg	329	488	459	315	488
Mercury	0.81	0.73	mg/kg	< 0.015	0.03 B	< 0.016	< 0.015	< 0.016
Nickel	310	130	mg/kg	14.5	15.4	16.2	12.5	14.7
Potassium	NS	NS	mg/kg	810 B	973 B	1230	780 B	600 B
Selenium	180	4	mg/kg	< 0.27	< 0.26	< 0.27	< 0.26	< 0.25
Silver	180	8.3	mg/kg	0.16 B	0.23 B	0.22 B	0.44 B	0.49 B
Sodium	NS	NS	mg/kg	132 B	136 B	56.6 B	291 B	111 B
Thallium	NS	NS	mg/kg	< 0.25	< 0.24	< 0.25	< 0.24	< 0.23
Vanadium	NS	NS	mg/kg	37.2	37.3	14.9	25.1	25.2
Zinc	10,000	2,480	mg/kg	44.1	51.7	49.5	37	39.1
Other								
Solids, Percent	NS	NS	%	89.5	89	90.6	91.6	94.3

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use.
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater.

Table 10. Summary of Post Excavation Analytical Results, Utility Corridor, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		DUP (022613) 2/26/2013	PE-P1-CELL14-6B(7.5-8.0) 2/26/2013	PE-P1-CELL16-3B (8.0-8.5) 2/21/2013	PE-P1-CELL24-3SW(3.0-3.5) 3/18/2013	PE-P2-CELL-1B (8.0-8.5) 11/26/2013
VOCs								
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.0001	< 0.0001	< 0.000097	< 0.000091	< 0.0003
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00013	< 0.00012	< 0.00012	< 0.00011	< 0.00035
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00017	< 0.00016	< 0.00016	< 0.00015	< 0.00084
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00013	< 0.00013	< 0.00013	< 0.00012	< 0.00032
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00025	< 0.00024	< 0.00024	< 0.00022	< 0.0003
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00013	< 0.00013	< 0.00013	< 0.00012	< 0.00019
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.00086 J	< 0.00084 J	< 0.00082	< 0.00077	< 0.0014
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00012	< 0.00012	< 0.00012	< 0.00011	< 0.00056
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.00018	< 0.00018	< 0.00017	< 0.00016	< 0.00035
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00013	< 0.00013	< 0.00012	< 0.00012	< 0.00033
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00015	< 0.00014	< 0.00014	< 0.00013	< 0.00045
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.00018	< 0.00018	< 0.00017	< 0.00016	< 0.00022
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00017	< 0.00017	< 0.00016	< 0.00015	< 0.00026
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0023	< 0.0022	< 0.0022	< 0.0021	< 0.0045
2-Hexanone	NS	NS	mg/kg	< 0.0006 J	< 0.00058 J	< 0.00057	< 0.00054	< 0.0018
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.00072 J	< 0.00071 J	< 0.00069	< 0.00065	< 0.0014
Acetone	100	0.05	mg/kg	< 0.0016	< 0.0016	< 0.0016 J	< 0.0015	< 0.0047
Benzene	4.8	0.06	mg/kg	< 0.00011	< 0.00011	< 0.00011	< 0.0001	< 0.00013
Bromodichloromethane	NS	NS	mg/kg	< 0.0001	< 0.000099	< 0.000096	< 0.00009	< 0.00029
Bromoform	NS	NS	mg/kg	< 0.00015 J	< 0.00014 J	< 0.00014	< 0.00013	< 0.00027
Bromomethane	NS	NS	mg/kg	< 0.00026 J	< 0.00026 J	< 0.00025	< 0.00023	< 0.00049
Carbon disulfide	NS	NS	mg/kg	< 0.00011	< 0.00011	< 0.00011	< 0.0001	< 0.00015
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00013	< 0.00013	< 0.00012	< 0.00011	< 0.00026
Chlorobenzene	100	1.1	mg/kg	< 0.0001	< 0.0001	< 0.000099	< 0.000093	< 0.0002
Chloroethane	NS	NS	mg/kg	< 0.00022 J	< 0.00021 J	< 0.00021	< 0.0002	< 0.001
Chloroform	49	0.37	mg/kg	< 0.00008	< 0.000078	< 0.000076	< 0.000071	< 0.00026
Chloromethane	NS	NS	mg/kg	< 0.00018	< 0.00017	< 0.00017	< 0.00016	< 0.00035
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00018	< 0.00017	< 0.00017	< 0.00016	< 0.00021
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00013	< 0.00013	< 0.00013	< 0.00012	< 0.00023
Cyclohexane	NS	NS	mg/kg	< 0.00012	< 0.00012	< 0.00011	< 0.00011	< 0.00026
Dibromochloromethane	NS	NS	mg/kg	< 0.00016	< 0.00015	< 0.00015	< 0.00014	< 0.00025
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00022	< 0.00021	< 0.00021	< 0.0002	< 0.00036
Ethylbenzene	41	1	mg/kg	0.00044 J	0.00032 J	< 0.00024	< 0.00023	0.00024 J
Freon 113	NS	NS	mg/kg	< 0.00041	< 0.0004	< 0.00039	< 0.00037	< 0.00045
Isopropylbenzene	NS	NS	mg/kg	< 0.000072	< 0.00007	< 0.000068	< 0.000064	< 0.00015
Methyl Acetate	NS	NS	mg/kg	< 0.0025 J	< 0.0024 J	< 0.0024	< 0.0022	< 0.0017
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00023	< 0.00022	< 0.00022	< 0.0002	< 0.00035
Methylcyclohexane	NS	NS	mg/kg	< 0.00016	< 0.00016	< 0.00016	< 0.00015	< 0.00017
Methylene chloride	100	0.05	mg/kg	< 0.0012	< 0.0012	< 0.0012	0.0015 J	< 0.0017
Styrene	NS	NS	mg/kg	< 0.000088	< 0.000086	< 0.000084	< 0.000079	< 0.00024
Tetrachloroethene	19	1.3	mg/kg	< 0.00017	< 0.00016	< 0.00016	< 0.00015	< 0.00042
Toluene	100	0.7	mg/kg	< 0.0001	0.00034 J	< 0.000096	< 0.00009	< 0.00015
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00023	< 0.00022	< 0.00022	< 0.0002	< 0.00044
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00015	< 0.00015	< 0.00014	< 0.00013	< 0.00028
Trichloroethene	21	0.47	mg/kg	< 0.00017	< 0.00016	< 0.00016	< 0.00015	< 0.00036
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00029	< 0.00028	< 0.00027	< 0.00026	< 0.00023
Vinyl chloride	0.9	0.02	mg/kg	< 0.00014	< 0.00014	< 0.00013	< 0.00012	< 0.00035
Xylene (total)	100	1.6	mg/kg	0.004	0.0033	< 0.00013	< 0.00012	0.0018
Total TIC, Volatile	NS	NS	mg/kg	0	0	0	0	0
SVOCs								
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0037	< 0.0036	< 0.0039	< 0.0042	< 0.0041
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.037	< 0.036	< 0.039	< 0.042	< 0.041
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.03	< 0.029	< 0.032	< 0.034	< 0.033
2,4-Dichlorophenol	NS	NS	mg/kg	< 0.051	< 0.05	< 0.054	< 0.058	< 0.057
2,4-Dimethylphenol	NS	NS	mg/kg	< 0.054	< 0.052	< 0.056	< 0.061 J	< 0.059

Table 10. Summary of Post Excavation Analytical Results, Utility Corridor, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID	375-6.8(b)	375-6.8(b)		DUP (022613)	PE-P1-CELL14-6B(7.5-8.0)	PE-P1-CELL16-3B (8.0-8.5)	PE-P1-CELL24-3SW(3.0-3.5)	PE-P2-CELL-1B (8.0-8.5)
Sample Date	NYS Restricted	NYS Protection		2/26/2013	2/26/2013	2/21/2013	3/18/2013	11/26/2013
SVOCs cont.								
2,4-Dinitrophenol	NS	NS	mg/kg	< 0.039 J	< 0.038 J	< 0.041	< 0.044	< 0.043
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.014 J	< 0.014 J	< 0.015	< 0.016	< 0.015
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.012 J	< 0.012 J	< 0.013	< 0.014	< 0.013
2-Chloronaphthalene	NS	NS	mg/kg	< 0.0099	< 0.0097	< 0.01	< 0.011	< 0.011
2-Chlorophenol	NS	NS	mg/kg	< 0.032	< 0.031	< 0.034	< 0.037	< 0.035
2-Methylnaphthalene	NS	NS	mg/kg	< 0.018	< 0.017	< 0.019	< 0.02	< 0.02
2-Methylphenol	100	0.33	mg/kg	< 0.036	< 0.036	< 0.038	< 0.041	< 0.04
2-Nitroaniline	NS	NS	mg/kg	< 0.014	< 0.014	< 0.015	< 0.016	< 0.015
2-Nitrophenol	NS	NS	mg/kg	< 0.034	< 0.033	< 0.036	< 0.038	< 0.037
3&4-Methylphenol	NS	NS	mg/kg	< 0.04	< 0.04	< 0.043	< 0.046	< 0.045
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0081	< 0.0079	< 0.0085	< 0.0092	< 0.0089 J
3-Nitroaniline	NS	NS	mg/kg	< 0.013 J	< 0.012 J	< 0.013	< 0.015	< 0.014
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.039 J	< 0.038 J	< 0.041	< 0.044	< 0.043
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.012	< 0.011	< 0.012	< 0.013	< 0.013
4-Chloro-3-methyl phenol	NS	NS	mg/kg	< 0.032	< 0.031	< 0.034	< 0.036	< 0.035
4-Chloroaniline	NS	NS	mg/kg	< 0.01	< 0.01	< 0.011	< 0.012	< 0.011
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	< 0.0096	< 0.0094	< 0.01	< 0.011	< 0.011
4-Nitroaniline	NS	NS	mg/kg	< 0.012	< 0.012	< 0.013	< 0.014	< 0.014 J
4-Nitrophenol	NS	NS	mg/kg	< 0.054	< 0.053	< 0.057	< 0.061	< 0.059 J
Acenaphthene	100	98	mg/kg	< 0.0092	< 0.009	< 0.0097	< 0.011	< 0.01
Acenaphthylene	100	107	mg/kg	< 0.01	< 0.01	< 0.011	< 0.012	< 0.011
Acetophenone	NS	NS	mg/kg	< 0.0056	< 0.0055	< 0.0059	< 0.0064	< 0.0062
Anthracene	100	1,000	mg/kg	< 0.011	< 0.011	< 0.012	< 0.013	< 0.012
Atrazine	NS	NS	mg/kg	< 0.0063	< 0.0061	< 0.0066	< 0.0072	< 0.0069
Benzaldehyde	NS	NS	mg/kg	< 0.0073	< 0.0072	< 0.0077	< 0.0084	< 0.0081 J
Benzo(a)anthracene	1	1	mg/kg	< 0.01	< 0.01	< 0.011	< 0.012	< 0.011
Benzo(a)pyrene	1	22	mg/kg	< 0.0097	< 0.0095	< 0.01 J	< 0.011	< 0.011
Benzo(b)fluoranthene	1	1.7	mg/kg	< 0.011	< 0.01	< 0.011 J	< 0.012	< 0.012
Benzo(g,h,i)perylene	100	1,000	mg/kg	< 0.012	< 0.012	< 0.012 J	< 0.014	< 0.013
Benzo(k)fluoranthene	3.9	1.7	mg/kg	< 0.012	< 0.012	< 0.013 J	< 0.014	< 0.013
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.013	< 0.013	< 0.014	< 0.015	< 0.014
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.0096	< 0.0094	< 0.01	< 0.011	< 0.011
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.0095	< 0.0093	< 0.01	< 0.011	< 0.01
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.028 J	< 0.028 J	< 0.03	< 0.032	0.0796
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.018	< 0.018	< 0.019	< 0.021	< 0.02
Caprolactam	NS	NS	mg/kg	< 0.01	< 0.0098	< 0.011	< 0.011	< 0.011
Carbazole	NS	NS	mg/kg	< 0.015	< 0.014	< 0.016	< 0.017	< 0.016
Chrysene	3.9	1	mg/kg	< 0.011	< 0.011	< 0.011	< 0.012	< 0.012
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.011	< 0.011	< 0.011 J	< 0.012	< 0.012
Dibenzofuran	59	210	mg/kg	< 0.0095	< 0.0093	< 0.01	< 0.011	< 0.01
Diethyl phthalate	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	< 0.012	< 0.012
Dimethyl phthalate	NS	NS	mg/kg	0.0437 J	< 0.011	< 0.012	0.0764	< 0.012
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0071	< 0.0069	< 0.0075	< 0.0081	< 0.0078
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.016 J	< 0.015 J	< 0.016 J	< 0.018	< 0.017 J
Fluoranthene	100	1,000	mg/kg	< 0.014	< 0.014	< 0.015	< 0.016	< 0.016
Fluorene	100	386	mg/kg	< 0.01	< 0.01	< 0.011	< 0.012	< 0.012
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.01	< 0.01	< 0.011	< 0.012	< 0.011
Hexachlorobutadiene	NS	NS	mg/kg	< 0.0089	< 0.0087	< 0.0093	< 0.01	< 0.0098
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.033 J	< 0.032 J	< 0.034	< 0.037	< 0.036
Hexachloroethane	NS	NS	mg/kg	< 0.0089	< 0.0087	< 0.0093	< 0.01	< 0.0098
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	< 0.011	< 0.011	< 0.012 J	< 0.013	< 0.012
Isophorone	NS	NS	mg/kg	< 0.0086	< 0.0084	< 0.009	< 0.0098	< 0.0095
Naphthalene	100	12	mg/kg	< 0.0087	< 0.0085	< 0.0092	< 0.0099	< 0.0096
Nitrobenzene	NS	NS	mg/kg	< 0.0092	< 0.009	< 0.0097	< 0.01	< 0.01

Table 10. Summary of Post Excavation Analytical Results, Utility Corridor, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		DUP (022613) 2/26/2013	PE-P1-CELL14-6B(7.5-8.0) 2/26/2013	PE-P1-CELL16-3B (8.0-8.5) 2/21/2013	PE-P1-CELL24-3SW(3.0-3.5) 3/18/2013	PE-P2-CELL-1B (8.0-8.5) 11/26/2013
SVOCs cont.								
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0078	< 0.0076	< 0.0082	< 0.0089	< 0.0086
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.019	< 0.019	< 0.02	< 0.022	< 0.021
Pentachlorophenol	6.7	0.8	mg/kg	< 0.055 J	< 0.053 J	< 0.057	< 0.062	< 0.06
Phenanthrene	100	1,000	mg/kg	0.026 J	0.0211 J	< 0.015	< 0.017	< 0.016
Phenol	100	0.33	mg/kg	< 0.033	< 0.033	< 0.035	< 0.038	< 0.037
Pyrene	100	1,000	mg/kg	< 0.012	< 0.012	< 0.013	< 0.014	< 0.014
Total TIC, Semi-Volatile	NS	NS	mg/kg	0.16 J	0	0	0	0.16 J
PCBs								
Aroclor 1016	NS	NS	mg/kg	< 0.0088	< 0.009	< 0.0097	< 0.009	< 0.0093
Aroclor 1221	NS	NS	mg/kg	< 0.02	< 0.021	< 0.022	< 0.021	< 0.021
Aroclor 1232	NS	NS	mg/kg	< 0.017	< 0.017	< 0.019	< 0.018	< 0.018
Aroclor 1242	NS	NS	mg/kg	< 0.011	< 0.011	< 0.012	< 0.011	< 0.011
Aroclor 1248	NS	NS	mg/kg	< 0.01	< 0.01	< 0.011	< 0.011	< 0.011
Aroclor 1254	NS	NS	mg/kg	< 0.016	< 0.016	< 0.017	< 0.016	< 0.017
Aroclor 1260	NS	NS	mg/kg	< 0.011	< 0.011	< 0.012	< 0.011	< 0.012
Aroclor 1262	NS	NS	mg/kg	NA	NA	NA	NA	< 0.011
Aroclor 1268	NS	NS	mg/kg	NA	NA	NA	NA	< 0.01
Metals								
Aluminum	NS	NS	mg/kg	7400	8320	7570	13500	9880
Antimony	NS	NS	mg/kg	0.43 B	0.25 B	< 0.16	0.66 B	< 0.24
Arsenic	16	16	mg/kg	2.6	3.5	2.4	3.7	5.4
Barium	400	820	mg/kg	49.2	36	30.8	69.7	81.7
Beryllium	72	47	mg/kg	0.4	0.56	0.58	0.72	< 0.36 UB
Cadmium	4.3	7.5	mg/kg	0.066 B	0.11 B	0.24 B	< 0.56 UB	< 0.51 UB
Calcium	NS	NS	mg/kg	2070	1970	1480	1990	2880
Chromium	NS	NS	mg/kg	19.7	15.2	16.6	21.3	24.8
Cobalt	NS	NS	mg/kg	6.6	9.8	6.7	8.4	15.3
Copper	270	1,720	mg/kg	8.9	21.3	11.8	18.3	16.7
Iron	NS	NS	mg/kg	16800	21200	17900	22800	21600
Lead	400	450	mg/kg	11.2	4.9	3.3	26.1	9.8
Magnesium	NS	NS	mg/kg	3450	4570	3820	4010	5180
Manganese	2,000	2,000	mg/kg	451	367	445	489	1890
Mercury	0.81	0.73	mg/kg	< 0.016	< 0.015	< 0.016	< 0.016	0.025 B
Nickel	310	130	mg/kg	14.3	20	15.3	17.4	26.2
Potassium	NS	NS	mg/kg	561 B	1010 B	828 B	1230	1170
Selenium	180	4	mg/kg	< 0.26	< 0.26	< 0.26	0.56 B	< 0.27
Silver	180	8.3	mg/kg	0.53 B	0.46 B	0.27 B	0.43 B	< 0.1
Sodium	NS	NS	mg/kg	96.4 B	133 B	141 B	158 B	175 B
Thallium	NS	NS	mg/kg	< 0.24	< 0.24	< 0.23	< 0.25	< 0.9
Vanadium	NS	NS	mg/kg	27.9	31.8	28	36.6	36.1
Zinc	10,000	2,480	mg/kg	31.7	45.3	35.2	44.2	44.9
Other								
Solids, Percent	NS	NS	%	94.2	91.7	90.8	89.4	93.5

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use.
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater.

Table 10. Summary of Post Excavation Analytical Results, Utility Corridor, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P2-CELL-2B (9.5-10) 12/3/2013	PE-P2-CELL-3B(9-9.5) 12/4/2013	PE-P2-CELL-4B (4.0-4.5) 12/9/2013	PE-P2-CELL-5B (2.0-2.5) 12/10/2013	PE-P2-CELL-1SW (4.0-4.5) 11/25/2013
VOCs								
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00031	< 0.0003	< 0.00026	< 0.00025	< 0.00027
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00037	< 0.00036	< 0.00032	< 0.00029	< 0.00032
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00088	< 0.00087	< 0.00076	< 0.00071	< 0.00076
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00034	< 0.00033	< 0.00029	< 0.00027	< 0.00029
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00031	< 0.0003	< 0.00026	< 0.00025	< 0.00027
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00019	< 0.00019	< 0.00017	< 0.00016	< 0.00017
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.0014	< 0.0014	< 0.0012	< 0.0011	< 0.0012
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00059	< 0.00058	< 0.0005	< 0.00047	< 0.00051
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.00036	< 0.00036	< 0.00031	< 0.00029	< 0.00031
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00034	< 0.00034	< 0.0003	< 0.00028	< 0.0003
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00047	< 0.00046	< 0.0004	< 0.00038	< 0.0004
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.00023	< 0.00023	< 0.0002	< 0.00019	< 0.0002
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00027	< 0.00026	< 0.00023	< 0.00022	< 0.00023
2-Butanone (MEK)	100	0.12	mg/kg	0.0269	< 0.0046	< 0.0041	< 0.0038	< 0.0041
2-Hexanone	NS	NS	mg/kg	< 0.0019	< 0.0019	< 0.0016	< 0.0015	< 0.0017
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.0014	< 0.0014	< 0.0012	< 0.0011	< 0.0012
Acetone	100	0.05	mg/kg	0.257 EDJ	< 0.0048	< 0.0042	< 0.0039	< 0.0042
Benzene	4.8	0.06	mg/kg	0.0013	< 0.00013	< 0.00012	< 0.00011	< 0.00012
Bromodichloromethane	NS	NS	mg/kg	< 0.0003	< 0.0003	< 0.00026	< 0.00024	< 0.00026
Bromoform	NS	NS	mg/kg	< 0.00028	< 0.00028	< 0.00024	< 0.00023	< 0.00024
Bromomethane	NS	NS	mg/kg	< 0.00051	< 0.00051	< 0.00044	< 0.00041	< 0.00045
Carbon disulfide	NS	NS	mg/kg	< 0.00015	< 0.00015	< 0.00013	< 0.00012	< 0.00013
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00027	< 0.00026	< 0.00023	< 0.00022	< 0.00023
Chlorobenzene	100	1.1	mg/kg	< 0.00021	< 0.00021	< 0.00018	< 0.00017	< 0.00018
Chloroethane	NS	NS	mg/kg	< 0.0011	< 0.001	< 0.00092	< 0.00086	< 0.00092
Chloroform	49	0.37	mg/kg	< 0.00027	< 0.00027	< 0.00023	< 0.00022	< 0.00024
Chloromethane	NS	NS	mg/kg	< 0.00037	< 0.00036	< 0.00032	< 0.0003	< 0.00032
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00022	< 0.00022	< 0.00019	< 0.00018	< 0.00019
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00024	< 0.00024	< 0.00021	< 0.0002	< 0.00021
Cyclohexane	NS	NS	mg/kg	0.0015 J	< 0.00027	< 0.00024	< 0.00022	< 0.00024
Dibromochloromethane	NS	NS	mg/kg	< 0.00026	< 0.00026	< 0.00022	< 0.00021	< 0.00022
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00038	< 0.00037	< 0.00033	< 0.0003	< 0.00033
Ethylbenzene	41	1	mg/kg	1.27 D	0.0016	< 0.00016	< 0.00015	< 0.00016
Freon 113	NS	NS	mg/kg	< 0.00047	< 0.00046	< 0.0004	< 0.00037	< 0.0004
Isopropylbenzene	NS	NS	mg/kg	0.03	0.00055 J	< 0.00014	< 0.00013	< 0.00014
Methyl Acetate	NS	NS	mg/kg	< 0.0018	< 0.0018	< 0.0015	< 0.0014	< 0.0016
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00037	< 0.00036	< 0.00032	< 0.0003	< 0.00032
Methylcyclohexane	NS	NS	mg/kg	0.0042 J	< 0.00017	< 0.00015	< 0.00014	< 0.00015
Methylene chloride	100	0.05	mg/kg	< 0.0018	< 0.0018	0.0017 J	< 0.0015	0.0023 J
Styrene	NS	NS	mg/kg	< 0.00025	< 0.00024	< 0.00021	< 0.0002	< 0.00022
Tetrachloroethene	19	1.3	mg/kg	< 0.00044	< 0.00043	< 0.00038	< 0.00035	< 0.00038
Toluene	100	0.7	mg/kg	0.945 D	0.0019	< 0.00013	< 0.00012	< 0.00013
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00045	< 0.00045	< 0.00039	< 0.00036	< 0.00039
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00029	< 0.00028	< 0.00025	< 0.00023	< 0.00025
Trichloroethene	21	0.47	mg/kg	< 0.00037	< 0.00037	< 0.00032	< 0.0003	< 0.00032
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00024	< 0.00024	< 0.00021	< 0.00019	< 0.00021
Vinyl chloride	0.9	0.02	mg/kg	< 0.00037	< 0.00036	< 0.00032	< 0.00029	< 0.00032
Xylene (total)	100	1.6	mg/kg	9.58 D	0.0147	< 0.00016	< 0.00015	< 0.00017
Total TIC, Volatile	NS	NS	mg/kg	3.4 J	0.0225 J	0	0	0
SVOCs								
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0041	< 0.004	< 0.0039	< 0.0042	< 0.0042
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.041 J	< 0.04 J	< 0.039	< 0.042	< 0.042
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.033 J	< 0.033 J	< 0.032	< 0.034	< 0.034
2,4-Dichlorophenol	NS	NS	mg/kg	< 0.056 J	< 0.056 J	< 0.054	< 0.058	< 0.058
2,4-Dimethylphenol	NS	NS	mg/kg	< 0.059	< 0.058	< 0.056	< 0.06	< 0.061

Table 10. Summary of Post Excavation Analytical Results, Utility Corridor, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID	375-6.8(b)	375-6.8(b)		PE-P2-CELL-2B (9.5-10)	PE-P2-CELL-3B(9-9.5)	PE-P2-CELL-4B (4.0-4.5)	PE-P2-CELL-5B (2.0-2.5)	PE-P2-CELL-1SW (4.0-4.5)
Sample Date	NYS Restricted	NYS Protection		12/3/2013	12/4/2013	12/9/2013	12/10/2013	11/25/2013
SVOCs cont.								
2,4-Dinitrophenol	NS	NS	mg/kg	< 0.043	< 0.042	< 0.041	< 0.044	< 0.044
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.015	< 0.015	< 0.015	< 0.016	< 0.016
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.013 J	< 0.013 J	< 0.013	< 0.014	< 0.014
2-Chloronaphthalene	NS	NS	mg/kg	< 0.011	< 0.011	< 0.01	< 0.011	< 0.011
2-Chlorophenol	NS	NS	mg/kg	< 0.035	< 0.035	< 0.034	< 0.036	< 0.036
2-Methylnaphthalene	NS	NS	mg/kg	0.712	< 0.019	< 0.019	< 0.02	< 0.02
2-Methylphenol	100	0.33	mg/kg	< 0.04	< 0.04	< 0.038	< 0.041	< 0.041
2-Nitroaniline	NS	NS	mg/kg	< 0.015	< 0.015	< 0.015	< 0.016	< 0.016
2-Nitrophenol	NS	NS	mg/kg	< 0.037	< 0.037	< 0.036	< 0.038	< 0.038
3&4-Methylphenol	NS	NS	mg/kg	< 0.045	< 0.044	< 0.043	< 0.046	< 0.046
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0089	< 0.0088	< 0.0085	< 0.0091	< 0.0092
3-Nitroaniline	NS	NS	mg/kg	< 0.014	< 0.014	< 0.013	< 0.014	< 0.015
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.043 J	< 0.042 J	< 0.041 J	< 0.044 J	< 0.044
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.013	< 0.013	< 0.012	< 0.013	< 0.013
4-Chloro-3-methyl phenol	NS	NS	mg/kg	< 0.035 J	< 0.035 J	< 0.034	< 0.036	< 0.036
4-Chloroaniline	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	< 0.011	< 0.012
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	< 0.011	< 0.01	< 0.01	< 0.011	< 0.011
4-Nitroaniline	NS	NS	mg/kg	< 0.014	< 0.014	< 0.013 J	< 0.014 J	< 0.014
4-Nitrophenol	NS	NS	mg/kg	< 0.059	< 0.059	< 0.057	< 0.061	< 0.061
Acenaphthene	100	98	mg/kg	< 0.01	< 0.01	< 0.0097	< 0.01	< 0.011
Acenaphthylene	100	107	mg/kg	< 0.011	< 0.011	< 0.011	< 0.011	< 0.012
Acetophenone	NS	NS	mg/kg	< 0.0062	< 0.0061	< 0.0059	< 0.0063	< 0.0064
Anthracene	100	1,000	mg/kg	< 0.012	< 0.012	< 0.012	< 0.013	< 0.013
Atrazine	NS	NS	mg/kg	< 0.0069	< 0.0068	< 0.0066	< 0.0071	< 0.0071
Benzaldehyde	NS	NS	mg/kg	< 0.0081	< 0.008	< 0.0077	< 0.0082	< 0.0083
Benzo(a)anthracene	1	1	mg/kg	< 0.011	< 0.011	< 0.011	0.0205 J	0.0309 J
Benzo(a)pyrene	1	22	mg/kg	< 0.011	< 0.011	< 0.01	0.017 J	0.0297 J
Benzo(b)fluoranthene	1	1.7	mg/kg	< 0.012	< 0.012	< 0.011	0.0189 J	0.0329 J
Benzo(g,h,i)perylene	100	1,000	mg/kg	< 0.013	< 0.013	< 0.012	< 0.013	< 0.013
Benzo(k)fluoranthene	3.9	1.7	mg/kg	< 0.013	< 0.013	< 0.013	< 0.013	0.0224 J
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.014	< 0.014	< 0.014	< 0.014	< 0.015
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.011	< 0.01	< 0.01	< 0.011	< 0.011
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.01	< 0.01	< 0.01	< 0.011	< 0.011
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	1.71 J	0.214 J	0.0431 J	0.0366 J	0.0415 J
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.02	< 0.02	< 0.019	< 0.021	< 0.021
Caprolactam	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011 J	< 0.011 J	< 0.011
Carbazole	NS	NS	mg/kg	< 0.016	< 0.016	< 0.016	< 0.017	< 0.017
Chrysene	3.9	1	mg/kg	< 0.012	< 0.012	< 0.011	0.0171 J	0.0319 J
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.012 J	< 0.012 J	< 0.011	< 0.012	< 0.012
Dibenzofuran	59	210	mg/kg	< 0.01	< 0.01	< 0.01	< 0.011	< 0.011
Diethyl phthalate	NS	NS	mg/kg	< 0.012	< 0.012	< 0.011	< 0.012	< 0.012
Dimethyl phthalate	NS	NS	mg/kg	< 0.012	< 0.012	< 0.012	< 0.013	< 0.013
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0078	< 0.0077	< 0.0075	< 0.008	< 0.0081
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.017 J	< 0.017 J	< 0.016	< 0.017	< 0.018
Fluoranthene	100	1,000	mg/kg	0.017 J	< 0.015	< 0.015	0.029 J	0.0416
Fluorene	100	386	mg/kg	< 0.012	< 0.011	< 0.011	< 0.012	< 0.012
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.011	< 0.011	< 0.011	< 0.012	< 0.012
Hexachlorobutadiene	NS	NS	mg/kg	< 0.0097	< 0.0096	< 0.0093	< 0.01	< 0.01
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.036	< 0.035	< 0.034 J	< 0.037 J	< 0.037 J
Hexachloroethane	NS	NS	mg/kg	< 0.0097	< 0.0096	< 0.0093	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	< 0.012	< 0.012	< 0.012	< 0.012	< 0.013
Isophorone	NS	NS	mg/kg	< 0.0094	< 0.0093	< 0.009	< 0.0096	< 0.0098
Naphthalene	100	12	mg/kg	1.15	< 0.0095	< 0.0092	< 0.0098	< 0.0099
Nitrobenzene	NS	NS	mg/kg	< 0.01	< 0.01	< 0.0097	< 0.01	< 0.01

Table 10. Summary of Post Excavation Analytical Results, Utility Corridor, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P2-CELL-2B (9.5-10) 12/3/2013	PE-P2-CELL-3B(9-9.5) 12/4/2013	PE-P2-CELL-4B (4.0-4.5) 12/9/2013	PE-P2-CELL-5B (2.0-2.5) 12/10/2013	PE-P2-CELL-1SW (4.0-4.5) 11/25/2013
SVOCs cont.								
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0086	< 0.0085	< 0.0082	< 0.0087	< 0.0088
N-Nitrosodiphenylamine	NS	NS	mg/kg	0.0425 J	< 0.021	< 0.02	< 0.021	0.0815 J
Pentachlorophenol	6.7	0.8	mg/kg	< 0.06	< 0.059	< 0.057 J	< 0.061 J	< 0.062
Phenanthrene	100	1,000	mg/kg	0.0345 J	< 0.016	< 0.015	< 0.016	0.0174 J
Phenol	100	0.33	mg/kg	< 0.037	< 0.036	< 0.035	< 0.038	< 0.038
Pyrene	100	1,000	mg/kg	0.0289 J	< 0.013	< 0.013	0.0268 J	0.0609
Total TIC, Semi-Volatile	NS	NS	mg/kg	25.8 J	2.07 J	0	16.2 J	2.55 J
PCBs								
Aroclor 1016	NS	NS	mg/kg	< 0.0087	< 0.0087	< 0.0087	< 0.0093	< 0.0092
Aroclor 1221	NS	NS	mg/kg	< 0.02	< 0.02	< 0.02	< 0.022	< 0.021
Aroclor 1232	NS	NS	mg/kg	< 0.017	< 0.017	< 0.017	< 0.018	< 0.018
Aroclor 1242	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Aroclor 1248	NS	NS	mg/kg	< 0.01	< 0.01	< 0.01	< 0.011	< 0.011
Aroclor 1254	NS	NS	mg/kg	< 0.016	< 0.016	< 0.016	< 0.017	< 0.017
Aroclor 1260	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	< 0.012	< 0.012
Aroclor 1262	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Aroclor 1268	NS	NS	mg/kg	< 0.0098	< 0.0099	< 0.0098	< 0.011	< 0.01
Metals								
Aluminum	NS	NS	mg/kg	5820	7540	8780	15500	13400
Antimony	NS	NS	mg/kg	20.4	0.66 B	< 0.24	< 0.26	1.1 B
Arsenic	16	16	mg/kg	6.3	3.1	2.8	4.5	2 J
Barium	400	820	mg/kg	652	86.3	45.6	76.4	57.4
Beryllium	72	47	mg/kg	0.33	0.41	0.63	1	< 0.016
Cadmium	4.3	7.5	mg/kg	0.35 B	0.3 B	< 0.51 UB	< 0.55 UB	< 0.078
Calcium	NS	NS	mg/kg	3670	7390	1880	5200	3050
Chromium	NS	NS	mg/kg	23	16.6	25	25.4	28.1
Cobalt	NS	NS	mg/kg	6.8	8.6	8.3	9.6	11.2
Copper	270	1,720	mg/kg	15.2	12.6	18.9	20.4	17
Iron	NS	NS	mg/kg	17500	20700	24200	27000	27300
Lead	400	450	mg/kg	829	16.9	7.5	39.3	38.6
Magnesium	NS	NS	mg/kg	4030	4660	3910	5100	4590
Manganese	2,000	2,000	mg/kg	364	1090	376	712	530
Mercury	0.81	0.73	mg/kg	0.044	0.052	0.092	0.04	0.04
Nickel	310	130	mg/kg	18.8	16.4	15	20.3	18.7
Potassium	NS	NS	mg/kg	752 B	761 B	908 B	1260	1090 B
Selenium	180	4	mg/kg	< 0.27	< 0.26	< 2.1 UB	< 2.2 UB	0.67 B
Silver	180	8.3	mg/kg	0.31 B	0.15 B	0.58	0.64	< 0.11
Sodium	NS	NS	mg/kg	213 B	88 B	128 B	183 B	155 B
Thallium	NS	NS	mg/kg	1 B	< 0.59	< 0.3	< 0.32	< 0.32
Vanadium	NS	NS	mg/kg	29.9	23.9	39.4	38.4	46.4
Zinc	10,000	2,480	mg/kg	83.6	52	35	55.4	48.6
Other								
Solids, Percent	NS	NS	%	93.5	93	95.2	89.4	91.3

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use.
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater.

Table 10. Summary of Post Excavation Analytical Results, Utility Corridor, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P2-CELL-2SW (6-6.5) 12/3/2013	PE-P3-CELL33A-2B(6.0-6.5) 3/18/2013	PE-P3-CELL33A-1SW(3.0-3.5) 3/18/2013	PE-P3-CELL39-1B(8.0-8.5) 3/13/2013	PE-P3-CELL47-3B(6.0-6.5) 3/20/2013
VOCs								
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00031	< 0.00013	< 0.00013	< 0.000098	< 0.00015
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00037	< 0.00016	< 0.00017	< 0.00012	< 0.00018
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00089	< 0.00021	< 0.00022	< 0.00016	< 0.00024
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00034	< 0.00017	< 0.00017	< 0.00013	< 0.00019
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00031	< 0.00031	< 0.00032	< 0.00024	< 0.00036
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.0002	< 0.00017	< 0.00017	< 0.00013	< 0.00019
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.0014	< 0.0011	< 0.0011	< 0.00082	< 0.0012
1,2-Dibromoethane	NS	NS	mg/kg	< 0.0006	< 0.00016	< 0.00016	< 0.00012	< 0.00018
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.00037	< 0.00023	< 0.00024	< 0.00017	< 0.00026
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00035	< 0.00016	< 0.00017	< 0.00012	< 0.00019
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00047	< 0.00019	< 0.00019	< 0.00014	< 0.00021
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.00024	< 0.00023	< 0.00024	< 0.00017	< 0.00026
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00027	< 0.00022	< 0.00022	< 0.00016	< 0.00024
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0048	< 0.0029	< 0.003	< 0.0022	< 0.0033
2-Hexanone	NS	NS	mg/kg	< 0.0019	< 0.00076	< 0.00078	< 0.00057	< 0.00087
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.0014	< 0.00092	< 0.00095	< 0.00069	< 0.001
Acetone	100	0.05	mg/kg	< 0.005	< 0.0021	< 0.0021	< 0.0016	0.0559
Benzene	4.8	0.06	mg/kg	< 0.00014	< 0.00015	< 0.00015	< 0.00011	0.0058
Bromodichloromethane	NS	NS	mg/kg	< 0.00031	< 0.00013	< 0.00013	< 0.000097	< 0.00015
Bromoform	NS	NS	mg/kg	< 0.00029	< 0.00018	< 0.00019	< 0.00014	< 0.00021
Bromomethane	NS	NS	mg/kg	< 0.00052	< 0.00033	< 0.00034	< 0.00025	< 0.00038
Carbon disulfide	NS	NS	mg/kg	< 0.00015	< 0.00014	< 0.00015	< 0.00011	0.00058 J
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00027	< 0.00016	< 0.00017	< 0.00012	< 0.00018
Chlorobenzene	100	1.1	mg/kg	< 0.00021	< 0.00013	< 0.00014	< 0.0001	< 0.00015
Chloroethane	NS	NS	mg/kg	< 0.0011	< 0.00028	< 0.00029	< 0.00021	< 0.00032
Chloroform	49	0.37	mg/kg	< 0.00028	< 0.0001	< 0.0001	< 0.000076	< 0.00011
Chloromethane	NS	NS	mg/kg	< 0.00037	< 0.00023	< 0.00023	< 0.00017	< 0.00026 J
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00023	< 0.00022	< 0.00023	< 0.00017	< 0.00025
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00025	< 0.00017	< 0.00017	< 0.00013	< 0.00019
Cyclohexane	NS	NS	mg/kg	< 0.00028	< 0.00015	< 0.00016	< 0.00011	0.0022 J
Dibromochloromethane	NS	NS	mg/kg	< 0.00026	< 0.0002	< 0.00021	< 0.00015	< 0.00023
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00038	< 0.00028	< 0.00029	< 0.00021	< 0.00032
Ethylbenzene	41	1	mg/kg	< 0.00019	< 0.00032	< 0.00033	< 0.00024	0.122
Freon 113	NS	NS	mg/kg	< 0.00047	< 0.00053	< 0.00054	< 0.0004	< 0.0006
Isopropylbenzene	NS	NS	mg/kg	< 0.00016	< 0.000091	< 0.000094	< 0.000069	2.35 D
Methyl Acetate	NS	NS	mg/kg	< 0.0018	< 0.0032	< 0.0033	< 0.0024	< 0.0036
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00037	< 0.00029	< 0.0003	< 0.00022	< 0.00033
Methylcyclohexane	NS	NS	mg/kg	< 0.00018	< 0.00021	< 0.00021	< 0.00016	0.105
Methylene chloride	100	0.05	mg/kg	< 0.0018	0.004 J	0.0034 J	< 0.0012	0.0031 J
Styrene	NS	NS	mg/kg	< 0.00025	< 0.00011	< 0.00012	< 0.000085	< 0.00013
Tetrachloroethene	19	1.3	mg/kg	< 0.00045	< 0.00021	< 0.00022	< 0.00016	< 0.00024
Toluene	100	0.7	mg/kg	< 0.00015	< 0.00013	< 0.00013	< 0.000097	0.00066 J
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00046	< 0.00029	< 0.0003	< 0.00022	< 0.00033
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00029	< 0.00019	< 0.0002	< 0.00014	< 0.00022
Trichloroethene	21	0.47	mg/kg	< 0.00038	< 0.00021	< 0.00022	< 0.00016	< 0.00024
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00024	< 0.00036	< 0.00038	< 0.00028	< 0.00041
Vinyl chloride	0.9	0.02	mg/kg	< 0.00037	< 0.00018	< 0.00018	< 0.00013	< 0.0002
Xylene (total)	100	1.6	mg/kg	< 0.00019	< 0.00017	0.0012 J	< 0.00013	0.0898
Total TIC, Volatile	NS	NS	mg/kg	0.0063 J	0	0	0	0.413 JN
SVOCs								
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0038	< 0.0041	< 0.0054	< 0.0037	< 0.0052
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.038 J	< 0.041	< 0.054	< 0.037	< 0.052
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.031 J	< 0.033	< 0.044	< 0.03	< 0.042
2,4-Dichlorophenol	NS	NS	mg/kg	< 0.053 J	< 0.057	< 0.075	< 0.052	< 0.072
2,4-Dimethylphenol	NS	NS	mg/kg	< 0.055	< 0.059 J	< 0.078 J	< 0.054	< 0.075

Table 10. Summary of Post Excavation Analytical Results, Utility Corridor, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID	375-6.8(b)	375-6.8(b)		PE-P2-CELL-2SW (6-6.5)	PE-P3-CELL33A-2B(6.0-6.5)	PE-P3-CELL33A-1SW(3.0-3.5)	PE-P3-CELL39-1B(8.0-8.5)	PE-P3-CELL47-3B(6.0-6.5)
Sample Date	NYS Restricted	NYS Protection		12/3/2013	3/18/2013	3/18/2013	3/13/2013	3/20/2013
SVOCs cont.								
2,4-Dinitrophenol	NS	NS	mg/kg	< 0.04	< 0.043	< 0.056	< 0.039	< 0.055 J
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.014	< 0.015	< 0.02	< 0.014	< 0.02 J
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.013 J	< 0.013	< 0.018	< 0.012	< 0.017 J
2-Chloronaphthalene	NS	NS	mg/kg	< 0.01	< 0.011	< 0.014	< 0.0099	< 0.014
2-Chlorophenol	NS	NS	mg/kg	< 0.033	< 0.035	< 0.047	< 0.032	< 0.045
2-Methylnaphthalene	NS	NS	mg/kg	< 0.018	< 0.02	< 0.026	< 0.018	0.0516 J
2-Methylphenol	100	0.33	mg/kg	< 0.037	< 0.04	< 0.053	< 0.037	< 0.051
2-Nitroaniline	NS	NS	mg/kg	< 0.014	< 0.015	< 0.02	< 0.014	< 0.02
2-Nitrophenol	NS	NS	mg/kg	< 0.035	< 0.037	< 0.049	< 0.034	< 0.047
3&4-Methylphenol	NS	NS	mg/kg	< 0.042	< 0.045	< 0.059	< 0.041	< 0.057
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0084	< 0.0089	< 0.012	< 0.0081	< 0.011
3-Nitroaniline	NS	NS	mg/kg	< 0.013	< 0.014	< 0.019	< 0.013	< 0.018
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.04 J	< 0.043	< 0.056	< 0.039	< 0.055 J
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.012	< 0.013	< 0.017	< 0.012	< 0.016
4-Chloro-3-methyl phenol	NS	NS	mg/kg	< 0.033 J	< 0.035	< 0.046	< 0.032	< 0.045
4-Chloroaniline	NS	NS	mg/kg	< 0.011	< 0.011	< 0.015	< 0.01	< 0.014
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	< 0.0099	< 0.011	< 0.014	< 0.0097	< 0.013
4-Nitroaniline	NS	NS	mg/kg	< 0.013	< 0.014	< 0.018	< 0.013	< 0.017
4-Nitrophenol	NS	NS	mg/kg	< 0.056	< 0.059	< 0.078	< 0.054 J	< 0.076 J
Acenaphthene	100	98	mg/kg	< 0.0095	< 0.01	< 0.013	< 0.0093	< 0.013
Acenaphthylene	100	107	mg/kg	< 0.011	< 0.011	< 0.015	< 0.01	< 0.014
Acetophenone	NS	NS	mg/kg	< 0.0058	< 0.0062	< 0.0081	< 0.0056	< 0.0079
Anthracene	100	1,000	mg/kg	< 0.012	< 0.012	< 0.016	< 0.011	< 0.016
Atrazine	NS	NS	mg/kg	< 0.0065	< 0.0069	< 0.0091	< 0.0063	< 0.0088
Benzaldehyde	NS	NS	mg/kg	< 0.0076	< 0.0081	< 0.011	< 0.0074 J	< 0.01
Benzo(a)anthracene	1	1	mg/kg	< 0.011	< 0.011	0.0191 J	< 0.01	< 0.015
Benzo(a)pyrene	1	22	mg/kg	< 0.01	< 0.011	< 0.014	< 0.0098	< 0.014
Benzo(b)fluoranthene	1	1.7	mg/kg	< 0.011	< 0.012	< 0.015	< 0.011	< 0.015
Benzo(g,h,i)perylene	100	1,000	mg/kg	< 0.012	< 0.013	< 0.017	< 0.012	< 0.017
Benzo(k)fluoranthene	3.9	1.7	mg/kg	< 0.012	< 0.013	< 0.017	< 0.012	< 0.017 J
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.013	< 0.014	< 0.019	< 0.013	< 0.018
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.0099	< 0.011	< 0.014	< 0.0097	< 0.013
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.0098	< 0.01	< 0.014	< 0.0095	< 0.013
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.029 J	< 0.031	< 0.041	0.102 J	0.137 J
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.019	< 0.02	< 0.027	< 0.019	< 0.026
Caprolactam	NS	NS	mg/kg	< 0.01	< 0.011	< 0.015	< 0.01	< 0.014
Carbazole	NS	NS	mg/kg	< 0.015	< 0.016	< 0.021	< 0.015	< 0.021
Chrysene	3.9	1	mg/kg	< 0.011	< 0.012	< 0.016	< 0.011	< 0.015
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.011 J	< 0.012	< 0.016	< 0.011	< 0.015
Dibenzofuran	59	210	mg/kg	< 0.0098	< 0.01	< 0.014	< 0.0095	< 0.013
Diethyl phthalate	NS	NS	mg/kg	< 0.011	< 0.012	< 0.016	< 0.011	< 0.015
Dimethyl phthalate	NS	NS	mg/kg	< 0.012	0.0775	0.115	< 0.011	< 0.016
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0073	< 0.0078	< 0.01	< 0.0071	< 0.0099
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.016 J	< 0.017	< 0.023	< 0.016 J	< 0.022 J
Fluoranthene	100	1,000	mg/kg	< 0.014	< 0.015	0.0319 J	< 0.014	< 0.02
Fluorene	100	386	mg/kg	< 0.011	< 0.012	< 0.015	< 0.011	< 0.015
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.011	< 0.011	< 0.015	< 0.01	< 0.015
Hexachlorobutadiene	NS	NS	mg/kg	< 0.0091	< 0.0098	< 0.013	< 0.0089	< 0.012
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.034	< 0.036	< 0.047	< 0.033	< 0.046 J
Hexachloroethane	NS	NS	mg/kg	< 0.0091	< 0.0098	< 0.013	< 0.0089	< 0.012
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	< 0.011	< 0.012	< 0.016	< 0.011	< 0.016
Isophorone	NS	NS	mg/kg	< 0.0088	< 0.0095	< 0.012	< 0.0086	< 0.012
Naphthalene	100	12	mg/kg	< 0.009	< 0.0096	< 0.013	< 0.0088	0.307
Nitrobenzene	NS	NS	mg/kg	< 0.0095	< 0.01	< 0.013	< 0.0093	< 0.013

Table 10. Summary of Post Excavation Analytical Results, Utility Corridor, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P2-CELL-2SW (6-6.5) 12/3/2013	PE-P3-CELL33A-2B(6.0-6.5) 3/18/2013	PE-P3-CELL33A-1SW(3.0-3.5) 3/18/2013	PE-P3-CELL39-1B(8.0-8.5) 3/13/2013	PE-P3-CELL47-3B(6.0-6.5) 3/20/2013
SVOCs cont.								
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.008	< 0.0086	< 0.011	< 0.0078	< 0.011
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.02	< 0.021	< 0.028	< 0.019	< 0.027
Pentachlorophenol	6.7	0.8	mg/kg	< 0.056	< 0.06	< 0.079	< 0.055	< 0.076 J
Phenanthrene	100	1,000	mg/kg	< 0.015	< 0.016	0.0214 J	< 0.015	< 0.02
Phenol	100	0.33	mg/kg	< 0.035	< 0.037	< 0.049	< 0.034	< 0.047
Pyrene	100	1,000	mg/kg	< 0.013	< 0.013	0.0244 J	< 0.012	< 0.017
Total TIC, Semi-Volatile	NS	NS	mg/kg	0	0	0	0.24 JN	9.73 JN
PCBs								
Aroclor 1016	NS	NS	mg/kg	< 0.0094	< 0.0087	< 0.012	< 0.0092	< 0.013
Aroclor 1221	NS	NS	mg/kg	< 0.022	< 0.02	< 0.028	< 0.021	< 0.03
Aroclor 1232	NS	NS	mg/kg	< 0.018	< 0.017	< 0.024	< 0.018	< 0.025
Aroclor 1242	NS	NS	mg/kg	< 0.011	< 0.011	< 0.015	< 0.011	< 0.016
Aroclor 1248	NS	NS	mg/kg	< 0.011	< 0.01	< 0.014	< 0.011	< 0.015
Aroclor 1254	NS	NS	mg/kg	< 0.017	< 0.016	< 0.022	< 0.017	< 0.023
Aroclor 1260	NS	NS	mg/kg	< 0.012	< 0.011	< 0.015	< 0.012	< 0.016
Aroclor 1262	NS	NS	mg/kg	< 0.011	NA	NA	NA	NA
Aroclor 1268	NS	NS	mg/kg	< 0.011	NA	NA	NA	NA
Metals								
Aluminum	NS	NS	mg/kg	9620	6840	14200	10300	25700
Antimony	NS	NS	mg/kg	< 0.25	0.64 B	0.51 B	< 0.17	0.71 B
Arsenic	16	16	mg/kg	3.5	2.7	4.4	3.6	7.5
Barium	400	820	mg/kg	36.4	36.6	78	43.2	98
Beryllium	72	47	mg/kg	0.54	0.43	0.77	0.72	1.1
Cadmium	4.3	7.5	mg/kg	0.19 B	< 0.54 UB	< 0.5 UB	< 0.028	< 0.025
Calcium	NS	NS	mg/kg	2540	2400	6620	4780	2440
Chromium	NS	NS	mg/kg	28.8	15.7	19.1	19.9	26.4
Cobalt	NS	NS	mg/kg	8.9	6.2	9.4	7.2	11.5
Copper	270	1,720	mg/kg	12.2	10.2	24.4	15.9	35.1
Iron	NS	NS	mg/kg	27100	20100	23400	21700	30100
Lead	400	450	mg/kg	4.5	3.1	17.9	11.5	10.4
Magnesium	NS	NS	mg/kg	5080	3500	4270	4230	4850
Manganese	2,000	2,000	mg/kg	278	1070	591	587	365
Mercury	0.81	0.73	mg/kg	0.015 B	< 0.015	0.024 B	< 0.016	0.049
Nickel	310	130	mg/kg	17.8	14.1	16	16.1	23.2
Potassium	NS	NS	mg/kg	722 B	864 B	1750	891 B	2230
Selenium	180	4	mg/kg	< 0.27	0.92 B	0.42 B	< 0.27	0.3 B
Silver	180	8.3	mg/kg	< 0.11	0.48 B	0.26 B	< 0.071	< 0.063
Sodium	NS	NS	mg/kg	136 B	154 B	270 B	116 B	1630
Thallium	NS	NS	mg/kg	< 0.31	< 0.24	< 0.22	0.96 B	< 0.22
Vanadium	NS	NS	mg/kg	46.2	25.6	35.8	32.3	44.7
Zinc	10,000	2,480	mg/kg	37	26.4	39.9	38.9	51.5
Other								
Solids, Percent	NS	NS	%	91.9	93	69.7	88.8	71.9

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use.
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater.

Table 10. Summary of Post Excavation Analytical Results, Utility Corridor, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID	375-6.8(b)	375-6.8(b)		PE-P3-CELL48A-2SW(3.0-3.5)	PE-P3-CELL50-3SW (1.5-2.0)	PE-P3-CELL50-4B (3.0-3.5)	DUP-111913
Sample Date	NYS Restricted	NYS Protection		3/21/2013	11/19/2013	11/19/2013	11/19/2013
VOCs							
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00013	< 0.00031	< 0.00029	< 0.00028
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00016	< 0.00037	< 0.00034	< 0.00033
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00021	< 0.00089	< 0.00083	< 0.00079
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00016	< 0.00034	< 0.00032	< 0.0003
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00031	< 0.00031	< 0.00029	< 0.00028
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00017	< 0.0002	< 0.00018	< 0.00018
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.0011	< 0.0014	< 0.0013	< 0.0013
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00015	< 0.00059	< 0.00055	< 0.00053
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.00023	< 0.00037	< 0.00034	< 0.00033
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00016	< 0.00035	< 0.00032	< 0.00031
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00018	< 0.00047	< 0.00044	< 0.00042
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.00022	< 0.00024	< 0.00022	< 0.00021
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00021	< 0.00027	< 0.00025	< 0.00024
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0029	< 0.0048	< 0.0044	< 0.0043
2-Hexanone	NS	NS	mg/kg	< 0.00074	< 0.0019	< 0.0018	< 0.0017
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.0009	< 0.0014	< 0.0013	< 0.0013
Acetone	100	0.05	mg/kg	< 0.002	< 0.0049	< 0.0046	< 0.0044
Benzene	4.8	0.06	mg/kg	< 0.00014	< 0.00014	< 0.00013	< 0.00012
Bromodichloromethane	NS	NS	mg/kg	< 0.00013	< 0.0003	< 0.00028	< 0.00027
Bromoform	NS	NS	mg/kg	< 0.00018	< 0.00028	< 0.00026	< 0.00025
Bromomethane	NS	NS	mg/kg	< 0.00033	< 0.00052	< 0.00048	< 0.00047
Carbon disulfide	NS	NS	mg/kg	< 0.00014	< 0.00015	< 0.00014	< 0.00014
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00016	< 0.00027	< 0.00025	< 0.00024
Chlorobenzene	100	1.1	mg/kg	< 0.00013	< 0.00021	< 0.0002	< 0.00019
Chloroethane	NS	NS	mg/kg	< 0.00027	< 0.0011	< 0.001	< 0.00096
Chloroform	49	0.37	mg/kg	< 0.000099	< 0.00028	< 0.00026	< 0.00025
Chloromethane	NS	NS	mg/kg	< 0.00022 J	< 0.00037	< 0.00034	< 0.00033
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00022	< 0.00022	< 0.00021	< 0.0002
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00017	< 0.00025	< 0.00023	< 0.00022
Cyclohexane	NS	NS	mg/kg	< 0.00015	< 0.00028	< 0.00026	< 0.00025
Dibromochloromethane	NS	NS	mg/kg	< 0.0002	< 0.00026	< 0.00024	< 0.00023
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00027	< 0.00038	< 0.00035	< 0.00034
Ethylbenzene	41	1	mg/kg	0.00044 J	< 0.00019	< 0.00018	< 0.00017
Freon 113	NS	NS	mg/kg	< 0.00051	< 0.00047	< 0.00044	< 0.00042
Isopropylbenzene	NS	NS	mg/kg	< 0.000089	< 0.00016	< 0.00015	< 0.00014
Methyl Acetate	NS	NS	mg/kg	< 0.0031	< 0.0018	< 0.0017	< 0.0016
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00028	< 0.00037	< 0.00034	< 0.00033
Methylcyclohexane	NS	NS	mg/kg	< 0.0002	< 0.00018	< 0.00016	< 0.00016
Methylene chloride	100	0.05	mg/kg	< 0.0015	< 0.0018	< 0.0017	< 0.0016
Styrene	NS	NS	mg/kg	< 0.00011	< 0.00025	< 0.00023	< 0.00022
Tetrachloroethene	19	1.3	mg/kg	< 0.00021	< 0.00044	< 0.00041	< 0.0004
Toluene	100	0.7	mg/kg	0.00028 J	< 0.00015	< 0.00014	< 0.00014
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00029	< 0.00046	< 0.00043	< 0.00041
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00019	< 0.00029	< 0.00027	< 0.00026
Trichloroethene	21	0.47	mg/kg	< 0.00021	< 0.00038	< 0.00035	< 0.00034
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00036	< 0.00024	< 0.00023	< 0.00022
Vinyl chloride	0.9	0.02	mg/kg	< 0.00017	< 0.00037	< 0.00034	< 0.00033
Xylene (total)	100	1.6	mg/kg	0.0028	< 0.00019	< 0.00018	< 0.00017
Total TIC, Volatile	NS	NS	mg/kg	0	0	0.0155 J	0
SVOCs							
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0044	< 0.0042	< 0.0043	< 0.0042
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.044	< 0.042	< 0.043	< 0.042
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.036	< 0.034	< 0.034	< 0.034
2,4-Dichlorophenol	NS	NS	mg/kg	< 0.062	< 0.058	< 0.059	< 0.058
2,4-Dimethylphenol	NS	NS	mg/kg	< 0.064	< 0.061	< 0.062	< 0.06

Table 10. Summary of Post Excavation Analytical Results, Utility Corridor, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID	375-6.8(b)	375-6.8(b)		PE-P3-CELL48A-2SW(3.0-3.5)	PE-P3-CELL50-3SW (1.5-2.0)	PE-P3-CELL50-4B (3.0-3.5)	DUP-111913
Sample Date	NYS Restricted	NYS Protection		3/21/2013	11/19/2013	11/19/2013	11/19/2013
SVOCs cont.							
2,4-Dinitrophenol	NS	NS	mg/kg	< 0.047 J	< 0.044	< 0.045	< 0.044
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.017 J	< 0.016	< 0.016	< 0.016
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.015 J	< 0.014	< 0.014	< 0.014
2-Chloronaphthalene	NS	NS	mg/kg	< 0.012	< 0.011	< 0.011	< 0.011
2-Chlorophenol	NS	NS	mg/kg	< 0.039	< 0.036	< 0.037	< 0.036
2-Methylnaphthalene	NS	NS	mg/kg	< 0.021	0.0215 J	< 0.02	< 0.02
2-Methylphenol	100	0.33	mg/kg	< 0.044	< 0.041	< 0.042	< 0.041
2-Nitroaniline	NS	NS	mg/kg	< 0.017	< 0.016	< 0.016	< 0.016
2-Nitrophenol	NS	NS	mg/kg	< 0.041	< 0.038	< 0.039	< 0.038
3&4-Methylphenol	NS	NS	mg/kg	< 0.049	< 0.046	< 0.047	< 0.046
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0097	< 0.0091	< 0.0093	< 0.0091
3-Nitroaniline	NS	NS	mg/kg	< 0.015	< 0.014	< 0.015	< 0.014
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.047 J	< 0.044 J	< 0.045 J	< 0.044 J
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.014	< 0.013	< 0.013	< 0.013
4-Chloro-3-methyl phenol	NS	NS	mg/kg	< 0.038	< 0.036	< 0.037	< 0.036
4-Chloroaniline	NS	NS	mg/kg	< 0.012	< 0.012	< 0.012	< 0.011
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	< 0.012	< 0.011	< 0.011	< 0.011
4-Nitroaniline	NS	NS	mg/kg	< 0.015	< 0.014	< 0.014	< 0.014
4-Nitrophenol	NS	NS	mg/kg	< 0.065 J	< 0.061	< 0.062	< 0.061
Acenaphthene	100	98	mg/kg	< 0.011	0.0322 J	< 0.011	< 0.01
Acenaphthylene	100	107	mg/kg	< 0.012	0.0569	< 0.012	< 0.011
Acetophenone	NS	NS	mg/kg	< 0.0067	< 0.0063	< 0.0065	< 0.0063
Anthracene	100	1,000	mg/kg	< 0.013	0.126	< 0.013	< 0.013
Atrazine	NS	NS	mg/kg	< 0.0075	< 0.0071	< 0.0072	< 0.0071
Benzaldehyde	NS	NS	mg/kg	< 0.0088	< 0.0083	< 0.0084	< 0.0082
Benzo(a)anthracene	1	1	mg/kg	< 0.012	0.42	0.0415	0.0334 J
Benzo(a)pyrene	1	22	mg/kg	< 0.012	0.429	0.0418	0.0355 J
Benzo(b)fluoranthene	1	1.7	mg/kg	< 0.013	0.551	0.0587	0.0441
Benzo(g,h,i)perylene	100	1,000	mg/kg	< 0.014	0.284	0.0321 J	0.0244 J
Benzo(k)fluoranthene	3.9	1.7	mg/kg	< 0.014 J	0.199	0.0198 J	0.0142 J
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.015	< 0.015	< 0.015	< 0.014
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.012	< 0.011	< 0.011	< 0.011
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	< 0.011
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	0.132 J	0.247	< 0.032	0.0382 J
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.022	< 0.021	< 0.021	< 0.021
Caprolactam	NS	NS	mg/kg	< 0.012	< 0.011	< 0.012	< 0.011
Carbazole	NS	NS	mg/kg	< 0.018	0.0534 J	< 0.017	< 0.017
Chrysene	3.9	1	mg/kg	< 0.013	0.46	0.0477	0.0371
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.013	0.0806	< 0.013	< 0.012
Dibenzofuran	59	210	mg/kg	< 0.011	0.0212 J	< 0.011	< 0.011
Diethyl phthalate	NS	NS	mg/kg	< 0.013	< 0.012	< 0.013	< 0.012
Dimethyl phthalate	NS	NS	mg/kg	< 0.013	< 0.013	< 0.013	< 0.013
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0085	< 0.008	< 0.0081	< 0.008
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.019 J	< 0.018	< 0.018	< 0.017
Fluoranthene	100	1,000	mg/kg	< 0.017	0.895	0.0722	0.0555
Fluorene	100	386	mg/kg	< 0.013	0.0383	< 0.012	< 0.012
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.012	< 0.012	< 0.012	< 0.012
Hexachlorobutadiene	NS	NS	mg/kg	< 0.011	< 0.01	< 0.01	< 0.01
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.039 J	< 0.037	< 0.037	< 0.037
Hexachloroethane	NS	NS	mg/kg	< 0.011	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	< 0.013	0.249	0.0269 J	0.0195 J
Isophorone	NS	NS	mg/kg	< 0.01	< 0.0097	< 0.0099	< 0.0096
Naphthalene	100	12	mg/kg	< 0.01	0.0185 J	< 0.01	< 0.0098
Nitrobenzene	NS	NS	mg/kg	< 0.011	< 0.01	< 0.011	< 0.01

Table 10. Summary of Post Excavation Analytical Results, Utility Corridor, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-P3-CELL48A-2SW(3.0-3.5) 3/21/2013	PE-P3-CELL50-3SW (1.5-2.0) 11/19/2013	PE-P3-CELL50-4B (3.0-3.5) 11/19/2013	DUP-111913 11/19/2013
SVOCs cont.							
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0093	< 0.0088	< 0.009	< 0.0087
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.023	< 0.022	< 0.022	< 0.021
Pentachlorophenol	6.7	0.8	mg/kg	< 0.065 J	< 0.062 J	< 0.063 J	< 0.061 J
Phenanthrene	100	1,000	mg/kg	< 0.017	0.43	0.027 J	0.0279 J
Phenol	100	0.33	mg/kg	< 0.04	< 0.038	< 0.039	< 0.038
Pyrene	100	1,000	mg/kg	< 0.015	0.709	0.063	0.0541
Total TIC, Semi-Volatile	NS	NS	mg/kg	2.45 JN	0.73 J	0.86 J	0.98 J
PCBs							
Aroclor 1016	NS	NS	mg/kg	< 0.01	< 0.0096	< 0.0091	< 0.0089
Aroclor 1221	NS	NS	mg/kg	< 0.024	< 0.022	< 0.021	< 0.021
Aroclor 1232	NS	NS	mg/kg	< 0.02	< 0.019	< 0.018	< 0.017
Aroclor 1242	NS	NS	mg/kg	< 0.013	< 0.012	< 0.011	< 0.011
Aroclor 1248	NS	NS	mg/kg	< 0.012	< 0.011	< 0.011	< 0.01
Aroclor 1254	NS	NS	mg/kg	< 0.019	< 0.017	< 0.016	< 0.016
Aroclor 1260	NS	NS	mg/kg	< 0.013	< 0.012	< 0.012	< 0.011
Aroclor 1262	NS	NS	mg/kg	NA	< 0.012	< 0.011	< 0.011
Aroclor 1268	NS	NS	mg/kg	NA	< 0.011	< 0.01	< 0.01
Metals							
Aluminum	NS	NS	mg/kg	10400	8380	9000	10800
Antimony	NS	NS	mg/kg	0.6 B	< 2.1 UB	< 2.1 UB	< 2.2 UB
Arsenic	16	16	mg/kg	3.5	4.6	4.9	7.3
Barium	400	820	mg/kg	49.7	95.7	92.1	76.1
Beryllium	72	47	mg/kg	< 0.24 UB	0.54	0.47	0.57
Cadmium	4.3	7.5	mg/kg	< 0.03	< 0.54 UB	< 0.076	< 0.56 UB
Calcium	NS	NS	mg/kg	2780	2320	46300 J	18000 J
Chromium	NS	NS	mg/kg	14.8	23	15.9	19.6
Cobalt	NS	NS	mg/kg	8.4	6.8	5.9	6.5
Copper	270	1,720	mg/kg	16.8	33.4	19.5	21.9
Iron	NS	NS	mg/kg	19600	20100	17700	18700
Lead	400	450	mg/kg	10.3	97.8	63.1	69.2
Magnesium	NS	NS	mg/kg	3400	2970	19400 J	8860 J
Manganese	2,000	2,000	mg/kg	510	487	562	553
Mercury	0.81	0.73	mg/kg	< 0.017	0.089	0.055	0.056
Nickel	310	130	mg/kg	11	14	11.5	12.3
Potassium	NS	NS	mg/kg	1320	942 B	769 B	739 B
Selenium	180	4	mg/kg	0.91 B	< 0.28	0.34 B	< 0.29
Silver	180	8.3	mg/kg	0.12 B	1.2	0.93	0.93
Sodium	NS	NS	mg/kg	216 B	122 B	155 B	130 B
Thallium	NS	NS	mg/kg	< 0.26	< 1.1 UB	< 1.1 UB	< 0.33
Vanadium	NS	NS	mg/kg	28.2	27.9	24.1	30.4
Zinc	10,000	2,480	mg/kg	38.1	71	66.5	67.8
Other							
Solids, Percent	NS	NS	%	83.5	88.7	88.8	89.1

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use.
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater.

Table 11. Summary of Post Excavation Analytical Results, Waste Storage Area, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY

Sample ID	375-6.8(b)	375-6.8(b)		PE-WSA-1B (0.5-1)	PE-WSA-2B (0.5-1)	PE-WSA-3B (0.5-1)	PE-WSA-4B (0.5-1)	SS-WSA-1B (0.5-1.0)	SS-WSA-1B (1.0-1.5)
Sample Date	NYS Restricted	NYS Protection		12/13/2013	12/13/2013	12/13/2013	12/13/2013	8/14/2013	8/22/2013
VOCS									
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00027 J	< 0.00028 J	< 0.0003 J	< 0.00031 J	< 0.00012	NA
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00032 J	< 0.00034 J	< 0.00036 J	< 0.00037 J	< 0.00015	NA
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00078 J	< 0.00081 J	< 0.00086 J	< 0.0009 J	< 0.0002	NA
1,1-Dichloroethane	26	0.27	mg/kg	< 0.0003 J	< 0.00031 J	< 0.00033 J	< 0.00034 J	< 0.00016	NA
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00027 J	< 0.00028 J	< 0.0003 J	< 0.00031 J	< 0.0003	NA
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00017 J	< 0.00018 J	< 0.00019 J	< 0.0002 J	< 0.00016	NA
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.0013 J	< 0.0013 J	< 0.0014 J	< 0.0015 J	< 0.001	NA
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00052 J	< 0.00054 J	< 0.00057 J	< 0.0006 J	< 0.00015	NA
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.00032 J	< 0.00033 J	< 0.00035 J	< 0.00037 J	< 0.00022	NA
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.0003 J	< 0.00032 J	< 0.00034 J	< 0.00035 J	< 0.00016	NA
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00041 J	< 0.00043 J	< 0.00046 J	< 0.00048 J	< 0.00018	NA
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.00021 J	< 0.00021 J	< 0.00023 J	< 0.00024 J	< 0.00022	NA
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00024 J	< 0.00025 J	< 0.00026 J	< 0.00027 J	< 0.00021	NA
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0042 J	< 0.0043 J	< 0.0046 J	< 0.0048 J	< 0.0028	NA
2-Hexanone	NS	NS	mg/kg	< 0.0017 J	< 0.0018 J	< 0.0019 J	< 0.0019 J	< 0.00073	NA
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.0012 J	< 0.0013 J	< 0.0014 J	< 0.0014 J	< 0.00088	NA
Acetone	100	0.05	mg/kg	< 0.0043 J	< 0.0045 J	< 0.0048 J	< 0.005 J	< 0.002	NA
Benzene	4.8	0.06	mg/kg	< 0.00012 J	< 0.00012 J	< 0.00013 J	< 0.00014 J	< 0.00014	NA
Bromodichloromethane	NS	NS	mg/kg	< 0.00027 J	< 0.00028 J	< 0.00029 J	< 0.00031 J	< 0.00012	NA
Bromoform	NS	NS	mg/kg	< 0.00025 J	< 0.00025 J	< 0.00027 J	< 0.00029 J	< 0.00018	NA
Bromomethane	NS	NS	mg/kg	< 0.00045 J	< 0.00047 J	< 0.0005 J	< 0.00052 J	< 0.00032	NA
Carbon disulfide	NS	NS	mg/kg	< 0.00013 J	< 0.00014 J	< 0.00015 J	< 0.00015 J	< 0.00014	NA
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00024 J	0.00027 J	< 0.00026 J	< 0.00027 J	< 0.00016 J	NA
Chlorobenzene	100	1.1	mg/kg	< 0.00019 J	< 0.00019 J	< 0.00021 J	< 0.00021 J	< 0.00013	NA
Chloroethane	NS	NS	mg/kg	< 0.00094 J	< 0.00098 J	< 0.001 J	< 0.0011 J	< 0.00027	NA
Chloroform	49	0.37	mg/kg	< 0.00024 J	< 0.00025 J	< 0.00027 J	< 0.00028 J	< 0.000097	NA
Chloromethane	NS	NS	mg/kg	< 0.00032 J	< 0.00034 J	< 0.00036 J	< 0.00037 J	< 0.00022	NA
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.0002 J	< 0.0002 J	< 0.00022 J	< 0.00023 J	< 0.00021	NA
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00021 J	< 0.00022 J	< 0.00024 J	< 0.00025 J	< 0.00016	NA
Cyclohexane	NS	NS	mg/kg	< 0.00024 J	< 0.00025 J	< 0.00027 J	< 0.00028 J	< 0.00014	NA
Dibromochloromethane	NS	NS	mg/kg	< 0.00023 J	< 0.00024 J	< 0.00025 J	< 0.00026 J	< 0.00019	NA
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00033 J	< 0.00035 J	< 0.00037 J	< 0.00039 J	< 0.00027	NA
Ethylbenzene	41	1	mg/kg	< 0.00017 J	0.0004 J	< 0.00018 J	< 0.00019 J	< 0.00031	NA
Freon 113	NS	NS	mg/kg	< 0.00041 J	< 0.00043 J	< 0.00045 J	< 0.00047 J	< 0.0005	NA
Isopropylbenzene	NS	NS	mg/kg	< 0.00014 J	< 0.00014 J	< 0.00015 J	< 0.00016 J	< 0.000087	NA
Methyl Acetate	NS	NS	mg/kg	< 0.0016 J	< 0.0016 J	< 0.0017 J	< 0.0018 J	< 0.003	NA
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00032 J	< 0.00034 J	< 0.00036 J	< 0.00037 J	< 0.00027	NA
Methylcyclohexane	NS	NS	mg/kg	< 0.00016 J	< 0.00016 J	< 0.00017 J	< 0.00018 J	< 0.0002	NA
Methylene chloride	100	0.05	mg/kg	< 0.0016 J	< 0.0017 J	< 0.0018 J	< 0.0019 J	< 0.0015	NA
Styrene	NS	NS	mg/kg	< 0.00022 J	< 0.00023 J	< 0.00024 J	< 0.00025 J	< 0.00011	NA
Tetrachloroethene	19	1.3	mg/kg	< 0.00039 J	< 0.0004 J	< 0.00043 J	< 0.00045 J	< 0.0002	NA
Toluene	100	0.7	mg/kg	< 0.00013 J	< 0.00014 J	< 0.00015 J	< 0.00015 J	< 0.00012	NA
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.0004 J	< 0.00042 J	< 0.00044 J	< 0.00046 J	< 0.00028	NA
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00026 J	< 0.00027 J	< 0.00028 J	< 0.00029 J	< 0.00018	NA
Trichloroethene	21	0.47	mg/kg	< 0.00033 J	< 0.00033 J	< 0.00037 J	0.00088 J	< 0.0002	NA
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00021 J	< 0.00022 J	< 0.00023 J	< 0.00025 J	< 0.00035	NA
Vinyl chloride	0.9	0.02	mg/kg	< 0.00032 J	< 0.00034 J	< 0.00036 J	< 0.00037 J	< 0.00017	NA
Xylene (total)	100	1.6	mg/kg	0.00019 J	0.0033 J	0.00042 J	0.00048 J	< 0.00016	NA
Total TIC, Volatile	NS	NS	mg/kg	0	0.0055 J	0	0	0	NA
SVOCs									
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0036	< 0.0038	< 0.0039	< 0.0036	< 0.0048	NA
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.036 J	< 0.038 J	< 0.039 J	< 0.036 J	< 0.048	NA
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.029 J	< 0.031 J	< 0.031 J	< 0.029 J	< 0.039	NA
2,4-Dichloropheno	NS	NS	mg/kg	< 0.05 J	< 0.053 J	< 0.054 J	< 0.05 J	< 0.066	NA
2,4-Dimethylpheno	NS	NS	mg/kg	< 0.053	< 0.055	< 0.056	< 0.052	< 0.069	NA

Table 11. Summary of Post Excavation Analytical Results, Waste Storage Area, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY

Sample ID	375-6.8(b)	375-6.8(b)		PE-WSA-1B (0.5-1)	PE-WSA-2B (0.5-1)	PE-WSA-3B (0.5-1)	PE-WSA-4B (0.5-1)	SS-WSA-1B (0.5-1.0)	SS-WSA-1B (1.0-1.5)
Sample Date	NYS Restricted	NYS Protection		12/13/2013	12/13/2013	12/13/2013	12/13/2013	8/14/2013	8/22/2013
SVOCs cont.									
2,4-Dinitropheno	NS	NS	mg/kg	< 0.038	< 0.04	< 0.041	< 0.038	< 0.05	NA
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.014	< 0.014 J	< 0.015	< 0.014	< 0.018 J	NA
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.012 J	< 0.013	< 0.013 J	< 0.012 J	< 0.016	NA
2-Chloronaphthalene	NS	NS	mg/kg	< 0.0097	< 0.01	< 0.01	< 0.0096	< 0.013	NA
2-Chloropheno	NS	NS	mg/kg	< 0.031	< 0.033	< 0.033	< 0.031	< 0.042	NA
2-Methylnaphthalene	NS	NS	mg/kg	< 0.017	< 0.018	< 0.019	< 0.017	< 0.023	NA
2-Methylpheno	100	0.33	mg/kg	< 0.036	< 0.038	< 0.038	< 0.035	< 0.047	NA
2-Nitroaniline	NS	NS	mg/kg	< 0.014	< 0.015	< 0.015	< 0.014	< 0.018	NA
2-Nitrophenol	NS	NS	mg/kg	< 0.033	< 0.035	< 0.035	< 0.033	< 0.044	NA
3&4-Methylpheno	NS	NS	mg/kg	< 0.04	< 0.042	< 0.042	< 0.039	< 0.052	NA
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.008 J	< 0.0084 J	< 0.0085 J	< 0.0079 J	< 0.01	NA
3-Nitroaniline	NS	NS	mg/kg	< 0.013	< 0.013	< 0.013	< 0.012	< 0.017	NA
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.038 J	< 0.04 J	< 0.041 J	< 0.038 J	< 0.05	NA
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.011	< 0.012	< 0.012	< 0.011	< 0.015	NA
4-Chloro-3-methyl pheno	NS	NS	mg/kg	< 0.031 J	< 0.033 J	< 0.033 J	< 0.031 J	< 0.041	NA
4-Chloroaniline	NS	NS	mg/kg	< 0.01	< 0.011	< 0.011	< 0.0099	< 0.013	NA
4-Chlorophenyl phenyl ethe	NS	NS	mg/kg	< 0.0094	< 0.0099	< 0.01	< 0.0093	< 0.012	NA
4-Nitroaniline	NS	NS	mg/kg	< 0.012	< 0.013	< 0.013	< 0.012	< 0.016	NA
4-Nitrophenol	NS	NS	mg/kg	< 0.053	< 0.056	< 0.057	< 0.052	< 0.07 J	NA
Acenaphthene	100	98	mg/kg	< 0.0091	< 0.0096	< 0.0097	< 0.009	0.0449	NA
Acenaphthylene	100	107	mg/kg	< 0.01	< 0.011	< 0.011	< 0.0099	0.0608	NA
Acetophenone	NS	NS	mg/kg	< 0.0055	< 0.0058	< 0.0059	< 0.0054	< 0.0073	NA
Anthracene	100	1,000	mg/kg	< 0.011	< 0.012	< 0.012	< 0.011	0.177	NA
Atrazine	NS	NS	mg/kg	< 0.0062	< 0.0065	< 0.0066	< 0.0061	< 0.0081 J	NA
Benzaldehyde	NS	NS	mg/kg	< 0.0072	< 0.0076	< 0.0077	< 0.0071	0.0558 J	NA
Benzo(a)anthracene	1	1	mg/kg	< 0.01	0.0197 J	< 0.011	< 0.01	0.655	NA
Benzo(a)pyrene	1	22	mg/kg	< 0.0096	0.0187 J	< 0.01	< 0.0094	0.626	NA
Benzo(b)fluoranthene	1	1.7	mg/kg	< 0.01	0.0219 J	< 0.011	0.0161 J	0.807	NA
Benzo(g,h,i)perylene	100	1,000	mg/kg	< 0.012	0.0155 J	< 0.012	< 0.011	0.436	NA
Benzo(k)fluoranthene	3.9	1.7	mg/kg	< 0.012	< 0.012	< 0.013	< 0.012	0.27	NA
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.013	< 0.013	< 0.014	< 0.012	< 0.017	NA
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.0094	< 0.0099	< 0.01	< 0.0093	< 0.012	NA
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.0093	< 0.0098	< 0.0099	< 0.0092	< 0.012	NA
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.028 J	0.103 J	< 0.03 J	0.0625 J	0.0606 J	NA
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.018	< 0.019	< 0.019	< 0.018	0.328	NA
Caprolactam	NS	NS	mg/kg	< 0.0099	< 0.01	< 0.011	< 0.0097	< 0.013	NA
Carbazole	NS	NS	mg/kg	< 0.015	< 0.015	< 0.015	< 0.014	0.0873	NA
Chrysene	3.9	1	mg/kg	< 0.011	0.0169 J	< 0.011	< 0.01	0.727	NA
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.011 J	< 0.011 J	< 0.011 J	< 0.011 J	0.13	NA
Dibenzofuran	59	210	mg/kg	< 0.0093	< 0.0098	< 0.0099	< 0.0092	0.0246 J	NA
Diethyl phthalate	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	< 0.011	< 0.014	NA
Dimethyl phthalate	NS	NS	mg/kg	< 0.011	< 0.012	< 0.012	< 0.011	< 0.015	NA
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.007	< 0.0073	< 0.0074	< 0.0069	< 0.0092	NA
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.015 J	< 0.016 J	< 0.016 J	< 0.015 J	< 0.02 J	NA
Fluoranthene	100	1,000	mg/kg	< 0.014	0.0314 J	< 0.015	0.0178 J	1.29	NA
Fluorene	100	386	mg/kg	< 0.01	< 0.011	< 0.011	< 0.01	0.045	NA
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.01	< 0.011	< 0.011	< 0.01	< 0.013	NA
Hexachlorobutadiene	NS	NS	mg/kg	< 0.0087	< 0.0092	< 0.0093	< 0.0086	< 0.011	NA
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.032	< 0.034	< 0.034	< 0.032	< 0.042 J	NA
Hexachloroethane	NS	NS	mg/kg	< 0.0087	< 0.0092	< 0.0093	< 0.0086	< 0.011	NA
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	< 0.011	0.0269 J	< 0.012	0.0263 J	0.465	NA
Isophorone	NS	NS	mg/kg	< 0.0084	< 0.0089	< 0.009	< 0.0083	< 0.011	NA
Naphthalene	100	12	mg/kg	< 0.0086	0.026 J	< 0.0091	< 0.0084	0.0191 J	NA
Nitrobenzene	NS	NS	mg/kg	< 0.0091	< 0.0095	< 0.0097	< 0.0089	< 0.012	NA
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0076	< 0.008	< 0.0082	< 0.0075	< 0.01	NA
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.019	< 0.02	< 0.02	< 0.018	< 0.025	NA
Pentachlorophenol	6.7	0.8	mg/kg	< 0.054	< 0.056	< 0.057	< 0.053	< 0.071 J	NA
Phenanthrene	100	1,000	mg/kg	< 0.014	0.0162 J	< 0.015	< 0.014	0.613	NA
Phenol	100	0.33	mg/kg	< 0.033	< 0.035	< 0.035	< 0.032	< 0.043	NA
Pyrene	100	1,000	mg/kg	< 0.012	0.0295 J	< 0.013	0.0158 J	1.19	NA
Total TIC, Semi-Volatile	NS	NS	mg/kg	0.17 J	0	0	0.79 J	6.45 JN	NA

Table 11. Summary of Post Excavation Analytical Results, Waste Storage Area, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		PE-WSA-1B (0.5-1) 12/13/2013	PE-WSA-2B (0.5-1) 12/13/2013	PE-WSA-3B (0.5-1) 12/13/2013	PE-WSA-4B (0.5-1) 12/13/2013	SS-WSA-1B (0.5-1.0) 8/14/2013	SS-WSA-1B (1.0-1.5) 8/22/2013
PCBs									
Aroclor 1016	NS	NS	mg/kg	< 0.0078	< 0.0092	< 0.0085	< 0.0089	< 0.011	< 0.01
Aroclor 1221	NS	NS	mg/kg	< 0.018	< 0.021	< 0.02	< 0.021	< 0.025	< 0.023
Aroclor 1232	NS	NS	mg/kg	< 0.015	< 0.018	< 0.016	< 0.017	< 0.021	< 0.019
Aroclor 1242	NS	NS	mg/kg	< 0.0096	< 0.011	< 0.01	< 0.011	< 0.013	< 0.012
Aroclor 1248	NS	NS	mg/kg	< 0.0091	< 0.011	< 0.0099	< 0.01	2.28 D	< 0.012
Aroclor 1254	NS	NS	mg/kg	< 0.014	< 0.017	< 0.015	< 0.016	< 0.019	< 0.018
Aroclor 1260	NS	NS	mg/kg	< 0.0099	< 0.012	< 0.011	< 0.011	< 0.013	< 0.013
Aroclor 1262	NS	NS	mg/kg	< 0.0096	< 0.011	< 0.01	< 0.011	< 0.013	< 0.012
Aroclor 1268	NS	NS	mg/kg	< 0.0088	< 0.01	< 0.0096	< 0.01	< 0.012	< 0.011
Metals									
Aluminum	NS	NS	mg/kg	439	1880	344	1040	11200 J	NA
Antimony	NS	NS	mg/kg	< 2 UB	< 2.1 UB	< 2.1 UB	< 2.2 UB	1.8 J	NA
Arsenic	16	16	mg/kg	25	5.1	46.5	6.1	7.7	NA
Barium	400	820	mg/kg	10.1 B	45.7	9.2 B	20.1 B	80.7	NA
Beryllium	72	47	mg/kg	< 0.2 UB	< 0.21 UB	< 0.21 UB	< 0.22 UB	0.62	NA
Cadmium	4.3	7.5	mg/kg	< 0.49 UB	< 0.52 UB	< 0.52 UB	< 0.56 UB	0.52 B	NA
Calcium	NS	NS	mg/kg	268000	186000	227000	216000	5770	NA
Chromium	NS	NS	mg/kg	< 3 UB	< 5.6 UB	< 1.2 UB	< 2.7 UB	25.4 J	NA
Cobalt	NS	NS	mg/kg	1.1 B	1.9 B	0.66 B	1.3 B	8.2 J	NA
Copper	270	1,720	mg/kg	< 12 UB	7.6	< 0.086	4.5	65.2 J	NA
Iron	NS	NS	mg/kg	3380	6750	3340	5310	26800 J	NA
Lead	400	450	mg/kg	3.1	177	3.2	18.8	190	NA
Magnesium	NS	NS	mg/kg	84900	67800	89700	75300	4010	NA
Manganese	2,000	2,000	mg/kg	550	795	667	669	589 J	NA
Mercury	0.81	0.73	mg/kg	0.011 B	0.014 B	0.012 B	0.033	0.2	NA
Nickel	310	130	mg/kg	2 B	2.7 B	1.2 B	2.1 B	21.3	NA
Potassium	NS	NS	mg/kg	152 B	425 B	112 B	232 B	1250 J	NA
Selenium	180	4	mg/kg	0.43 B	0.5 B	0.42 B	0.55 B	< 0.35	NA
Silver	180	8.3	mg/kg	< 0.5	1.6 B	< 0.52	< 0.57	0.81	NA
Sodium	NS	NS	mg/kg	138 B	155 B	131 B	152 B	212 B	NA
Thallium	NS	NS	mg/kg	< 1.5	< 1.5	< 1.5	< 1.6	< 0.4	NA
Vanadium	NS	NS	mg/kg	2.3 B	8.3	1.9 B	5 B	45.3	NA
Zinc	10,000	2,480	mg/kg	29.8	49.5	20	28.8	337 J	NA
Other									
Solids, Percent	NS	NS	%	97.9	93.9	97.7	93.5	76.4	82.7

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater

Table 11. Summary of Post Excavation Analytical Results, Waste Storage Area, Operable Unit 1, Ramapo Pai

Sample ID	375-6.8(b)	375-6.8(b)		SS-WSA-2B (0.5-1.0)	SS-WSA-3B (0.5-1.0)	SS-WSA-4B (0.5-1.0)	SS-WSA-4B (1.0-1.5)	SS-WSA-5B (0.5-1.0)	DUP(081413)
Sample Date	NYS Restricted	NYS Protection		8/14/2013	8/14/2013	8/14/2013	8/22/2013	8/14/2013	8/14/2013
VOCS									
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00011	< 0.00011	< 0.00013	NA	< 0.00011	< 0.00012
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00014	< 0.00014	< 0.00016	NA	< 0.00014	< 0.00015
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00018	< 0.00019	< 0.00022	NA	< 0.00018	< 0.0002
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00015	< 0.00015	< 0.00017	NA	< 0.00014	< 0.00016
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00027	< 0.00028	< 0.00032	NA	< 0.00027	< 0.00029
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00015	< 0.00015	< 0.00017	NA	< 0.00015	< 0.00016
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.00094	< 0.00096	< 0.0011	NA	< 0.00094	< 0.001
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00013	< 0.00014	< 0.00016	NA	< 0.00013	< 0.00014
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.0002	< 0.0002	< 0.00023	NA	< 0.0002	< 0.00021
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00014	< 0.00015	< 0.00017	NA	< 0.00014	< 0.00015
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00016	< 0.00017	< 0.00019	NA	< 0.00016	< 0.00017
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.0002	< 0.0002	< 0.00023	NA	< 0.0002	< 0.00021
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00019	< 0.00019	< 0.00022	NA	< 0.00019	< 0.0002
2-Butanone (MEK)	100	0.12	mg/kg	0.0055 J	< 0.0026	0.0365	NA	1.09 D	0.783 D
2-Hexanone	NS	NS	mg/kg	< 0.00066	< 0.00067	< 0.00077	NA	< 0.00066	0.0019 J
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.0008	< 0.00081	< 0.00093	NA	< 0.00079	< 0.00085
Acetone	100	0.05	mg/kg	0.0377	< 0.0018	0.226	NA	0.938 D	0.894 D
Benzene	4.8	0.06	mg/kg	< 0.00013	< 0.00013	< 0.00015	NA	< 0.00013	< 0.00013
Bromodichloromethane	NS	NS	mg/kg	< 0.00011	< 0.00011	< 0.00013	NA	< 0.00011	< 0.00012
Bromoform	NS	NS	mg/kg	< 0.00016	< 0.00016	< 0.00019	NA	< 0.00016	< 0.00017
Bromomethane	NS	NS	mg/kg	< 0.00029	< 0.00029	< 0.00034	NA	< 0.00029	< 0.00031
Carbon disulfide	NS	NS	mg/kg	< 0.00012	< 0.00013	< 0.00014	NA	0.00057 J	0.00099 J
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00014 J	< 0.00014 J	< 0.00016 J	NA	< 0.00014 J	< 0.00015 J
Chlorobenzene	100	1.1	mg/kg	< 0.00011	< 0.00012	< 0.00013	NA	< 0.00011	< 0.00012
Chloroethane	NS	NS	mg/kg	< 0.00024	< 0.00024	< 0.00028	NA	< 0.00024	< 0.00026
Chloroform	49	0.37	mg/kg	< 0.000088	< 0.000089	< 0.0001	NA	< 0.000087	< 0.000094
Chloromethane	NS	NS	mg/kg	< 0.0002	< 0.0002	< 0.00023	NA	< 0.0002	< 0.00021
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00019	< 0.0002	< 0.00023	NA	< 0.00019	< 0.00021
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00015	< 0.00015	< 0.00017	NA	< 0.00015	< 0.00016
Cyclohexane	NS	NS	mg/kg	< 0.00013	< 0.00013	< 0.00015	NA	< 0.00013	< 0.00014
Dibromochloromethane	NS	NS	mg/kg	< 0.00017	< 0.00018	< 0.0002	NA	< 0.00017	< 0.00019
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00024	< 0.00025	< 0.00028	NA	< 0.00024	< 0.00026
Ethylbenzene	41	1	mg/kg	< 0.00028	< 0.00028	0.0008 J	NA	< 0.00028	< 0.0003
Freon 113	NS	NS	mg/kg	< 0.00046	< 0.00046	< 0.00053	NA	< 0.00045	< 0.00049
Isopropylbenzene	NS	NS	mg/kg	< 0.000079	< 0.00008	< 0.000092	NA	< 0.000079	< 0.000084
Methyl Acetate	NS	NS	mg/kg	< 0.0028	< 0.0028	< 0.0032	NA	< 0.0027	< 0.0029
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00025	< 0.00025	< 0.00029	NA	< 0.00025	< 0.00027
Methylcyclohexane	NS	NS	mg/kg	< 0.00018	< 0.00018	< 0.00021	NA	< 0.00018	< 0.00019
Methylene chloride	100	0.05	mg/kg	0.0021 J	0.0022 J	0.0016 J	NA	0.0037 J	0.0028 J
Styrene	NS	NS	mg/kg	< 0.000097	< 0.000099	< 0.00011	NA	0.00035 J	0.00047 J
Tetrachloroethene	19	1.3	mg/kg	< 0.00018	< 0.00019	< 0.00021	NA	< 0.00018	< 0.0002
Toluene	100	0.7	mg/kg	0.00055 J	0.00049 J	0.0383	NA	0.00086 J	0.0021
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00025	< 0.00026	< 0.00029	NA	< 0.00025	< 0.00027
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00016	< 0.00017	< 0.00019	NA	< 0.00016	< 0.00018
Trichloroethene	21	0.47	mg/kg	< 0.00018	< 0.00019	< 0.00022	NA	< 0.00018	< 0.0002
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00032	< 0.00032	< 0.00037	NA	< 0.00032	< 0.00034
Vinyl chloride	0.9	0.02	mg/kg	< 0.00015	< 0.00016	< 0.00018	NA	< 0.00015	< 0.00016
Xylene (total)	100	1.6	mg/kg	< 0.00015	< 0.00015	< 0.00017	NA	< 0.00015	< 0.00016
Total TIC, Volatile	NS	NS	mg/kg	0	0	0.31 JN	NA	0	0
SVOCs									
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0043	< 0.0039	0.129	NA	0.0395 J	< 0.0042
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.043	< 0.039	< 0.044	NA	< 0.044	< 0.042
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.035	< 0.031	< 0.036	NA	< 0.036	< 0.034
2,4-Dichloropheno	NS	NS	mg/kg	< 0.059	< 0.053	< 0.062	NA	< 0.061	< 0.058
2,4-Dimethylpheno	NS	NS	mg/kg	< 0.062	< 0.056	< 0.064	NA	< 0.064	< 0.061

Table 11. Summary of Post Excavation Analytical Results, Waste Storage Area, Operable Unit 1, Ramapo Pai

Sample ID	375-6.8(b)	375-6.8(b)		SS-WSA-2B (0.5-1.0)	SS-WSA-3B (0.5-1.0)	SS-WSA-4B (0.5-1.0)	SS-WSA-4B (1.0-1.5)	SS-WSA-5B (0.5-1.0)	DUP(081413)
Sample Date	NYS Restricted	NYS Protection		8/14/2013	8/14/2013	8/14/2013	8/22/2013	8/14/2013	8/14/2013
SVOCs cont.									
2,4-Dinitropheno	NS	NS	mg/kg	< 0.045	< 0.041	< 0.047	NA	< 0.047	< 0.044
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.016 J	< 0.015 J	< 0.017 J	NA	< 0.017 J	< 0.016 J
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.014	< 0.013	< 0.015	NA	< 0.015	< 0.014
2-Chloronaphthalene	NS	NS	mg/kg	< 0.011	< 0.01	< 0.012	NA	< 0.012	< 0.011
2-Chloropheno	NS	NS	mg/kg	< 0.037	< 0.034	< 0.039	NA	< 0.039	< 0.037
2-Methylnaphthalene	NS	NS	mg/kg	0.0279 J	< 0.019	0.758	NA	0.158	< 0.02
2-Methylpheno	100	0.33	mg/kg	< 0.042	< 0.038	< 0.044	NA	< 0.043	< 0.041
2-Nitroaniline	NS	NS	mg/kg	< 0.016	< 0.015	< 0.017	NA	< 0.017	< 0.016
2-Nitrophenol	NS	NS	mg/kg	< 0.039	< 0.035	< 0.041	NA	< 0.04	< 0.038
3&4-Methylpheno	NS	NS	mg/kg	0.108	0.341	1.67	NA	3.19	2.96
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0093	< 0.0084	< 0.0097	NA	< 0.0097	< 0.0092
3-Nitroaniline	NS	NS	mg/kg	< 0.015	< 0.013	< 0.015	NA	< 0.015	< 0.015
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.045	< 0.041	< 0.047	NA	< 0.047	< 0.044
4-Bromophenyl phenyl ethe	NS	NS	mg/kg	< 0.013	< 0.012	< 0.014	NA	< 0.014	< 0.013
4-Chloro-3-methyl pheno	NS	NS	mg/kg	< 0.037	< 0.033	< 0.038	NA	< 0.038	< 0.036
4-Chloroaniline	NS	NS	mg/kg	< 0.012	< 0.011	< 0.012	NA	< 0.012	< 0.012
4-Chlorophenyl phenyl ethe	NS	NS	mg/kg	< 0.011	< 0.01	< 0.012	NA	< 0.011	< 0.011
4-Nitroaniline	NS	NS	mg/kg	< 0.014	< 0.013	< 0.015	NA	< 0.015	< 0.014
4-Nitrophenol	NS	NS	mg/kg	< 0.062 J	< 0.056 J	< 0.065 J	NA	< 0.064 J	< 0.061 J
Acenaphthene	100	98	mg/kg	0.0773	< 0.0096	0.21	< 0.0098	0.242 J	0.0184 J
Acenaphthylene	100	107	mg/kg	0.0368 J	0.0313 J	1.09	0.0177 J	0.149	0.0942
Acetophenone	NS	NS	mg/kg	< 0.0065	< 0.0058	< 0.0067	NA	< 0.0067	< 0.0064
Anthracene	100	1,000	mg/kg	0.202	0.069	1.52	0.0417	0.612 J	0.14 J
Atrazine	NS	NS	mg/kg	< 0.0075 J	< 0.0065 J	< 0.0075 J	NA	< 0.0075 J	< 0.0072 J
Benzaldehyde	NS	NS	mg/kg	< 0.0084	0.0179 J	< 0.0088	NA	< 0.0088	< 0.0084
Benzo(a)anthracene	1	1	mg/kg	0.477	0.213		0.178	0.978	0.425
Benzo(a)pyrene	1	22	mg/kg	0.472	0.199	3.04	0.161	0.787	0.394
Benzo(b)fluoranthene	1	1.7	mg/kg	0.654	0.276		0.229	0.971	0.514
Benzo(g,h,i)perylene	100	1,000	mg/kg	0.334	0.14	1.59	0.107	0.414	0.269
Benzo(k)fluoranthene	3.9	1.7	mg/kg	0.237	0.0937	1.3	0.0862	0.394	0.219
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.015	< 0.013	< 0.015	NA	< 0.015	< 0.015
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.011	< 0.01	< 0.012	NA	< 0.011	< 0.011
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.011	< 0.0099	< 0.011	NA	< 0.011	< 0.011
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.032	0.0334 J	0.135	NA	< 0.034	0.0392 J
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.021	< 0.019	< 0.022	NA	< 0.022	< 0.021
Caprolactam	NS	NS	mg/kg	< 0.012	< 0.01	< 0.012	NA	< 0.012	< 0.011
Carbazole	NS	NS	mg/kg	0.0775	0.0277 J	0.323	NA	0.38 J	0.0404 J
Chrysene	3.9	1	mg/kg	0.519	0.233		0.197	0.989	0.45
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	0.111	0.0416		0.0291 J	0.146	0.0829
Dibenzofuran	59	210	mg/kg	0.0544 J	< 0.0099	0.394	NA	0.255 J	0.0198 J
Diethyl phthalate	NS	NS	mg/kg	< 0.013	< 0.011	< 0.013	NA	< 0.013	< 0.012
Dimethyl phthalate	NS	NS	mg/kg	< 0.013	< 0.012	< 0.013	NA	< 0.013	< 0.013
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0082	< 0.0074	< 0.0085	NA	< 0.0085	< 0.0081
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.018 J	< 0.016 J	< 0.019 J	NA	< 0.019 J	< 0.018 J
Fluoranthene	100	1,000	mg/kg	0.962	0.421	7.15 D	0.347	2.31	0.848
Fluorene	100	386	mg/kg	0.0795	0.0172 J	0.609	< 0.011	0.289 J	0.0336 J
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.012	< 0.011	< 0.012	NA	< 0.012	< 0.012
Hexachlorobutadiene	NS	NS	mg/kg	< 0.01	< 0.0092	< 0.011	NA	< 0.011	< 0.01
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.037 J	< 0.034 J	< 0.039 J	NA	< 0.039 J	< 0.037 J
Hexachloroethane	NS	NS	mg/kg	< 0.01	< 0.0092	< 0.011	NA	< 0.011	< 0.01
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	0.382	0.151		0.11		0.306
Isophorone	NS	NS	mg/kg	< 0.0099	< 0.0089	< 0.01	NA	< 0.01	< 0.0098
Naphthalene	100	12	mg/kg	0.0427	< 0.0091	2.55	< 0.0092	0.371 J	0.0416 J
Nitrobenzene	NS	NS	mg/kg	< 0.011	< 0.0096	< 0.011	NA	< 0.011	< 0.01
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.009	< 0.0081	< 0.0093	NA	< 0.0093	< 0.0089
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.022	< 0.02	< 0.023	NA	< 0.023	< 0.022
Pentachlorophenol	6.7	0.8	mg/kg	< 0.063 J	< 0.057 J	< 0.065 J	NA	< 0.065 J	< 0.062 J
Phenanthrene	100	1,000	mg/kg	0.695	0.203	3.16	0.118	2.25 J	0.368 J
Phenol	100	0.33	mg/kg	< 0.039	0.0429 J	0.242	NA	0.238	0.204
Pyrene	100	1,000	mg/kg	0.819	0.369	5.99 D	0.29	1.84	0.725
Total TIC, Semi-Volatile	NS	NS	mg/kg	1.65 JN	12.1 JN	29.2 JN	0	35.1 JN	30.1 JN

Table 11. Summary of Post Excavation Analytical Results, Waste Storage Area, Operable Unit 1, Ramapo Pai

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		SS-WSA-2B (0.5-1.0) 8/14/2013	SS-WSA-3B (0.5-1.0) 8/14/2013	SS-WSA-4B (0.5-1.0) 8/14/2013	SS-WSA-4B (1.0-1.5) 8/22/2013	SS-WSA-5B (0.5-1.0) 8/14/2013	DUP(081413) 8/14/2013
PCBs									
Aroclor 1016	NS	NS	mg/kg	< 0.0099	< 0.0095	< 0.01	NA	< 0.0093	< 0.01
Aroclor 1221	NS	NS	mg/kg	< 0.023	< 0.022	< 0.023	NA	< 0.021	< 0.024
Aroclor 1232	NS	NS	mg/kg	< 0.019	< 0.018	< 0.02	NA	< 0.018	< 0.02
Aroclor 1242	NS	NS	mg/kg	< 0.012	< 0.012	< 0.012	NA	< 0.011	< 0.012
Aroclor 1248	NS	NS	mg/kg	< 0.012	< 0.011	< 0.012	NA	< 0.011	< 0.012
Aroclor 1254	NS	NS	mg/kg	< 0.018	< 0.017	< 0.018	NA	< 0.017	< 0.018
Aroclor 1260	NS	NS	mg/kg	< 0.013	< 0.012	< 0.013	NA	< 0.012	< 0.013
Aroclor 1262	NS	NS	mg/kg	< 0.012	< 0.012	< 0.012	NA	< 0.011	< 0.012
Aroclor 1268	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	NA	< 0.01	< 0.012
Metals									
Aluminum	NS	NS	mg/kg	10000 J	8080 J	9910 J	NA	10100 J	10000 J
Antimony	NS	NS	mg/kg	1.7 J	0.92 J	1.6 J	NA	1.1 J	1.3 J
Arsenic	16	16	mg/kg	7.1	4.4	6.9	NA	4.8	5.2
Barium	400	820	mg/kg	72.4	58.4	85.6	NA	74.7	82.1
Beryllium	72	47	mg/kg	0.55	0.39	0.52	NA	0.46	0.48
Cadmium	4.3	7.5	mg/kg	< 0.59 UB	< 0.078	0.57 B	NA	< 0.57 UB	< 0.63 UB
Calcium	NS	NS	mg/kg	3930	11900	11000	NA	11300	9850
Chromium	NS	NS	mg/kg	20.5 J	19.2 J	26.7 J	NA	24.5 J	24.7 J
Cobalt	NS	NS	mg/kg	8.9 J	8 J	9 J	NA	10.5 J	9.1 J
Copper	270	1,720	mg/kg	66.8 J	56.8 J	68.2 J	NA	58.7 J	53.7 J
Iron	NS	NS	mg/kg	29600 J	22800 J	28800 J	NA	26300 J	26300 J
Lead	400	450	mg/kg	158	102	186	NA	117	159
Magnesium	NS	NS	mg/kg	2920	6660	5670	NA	7250	6870
Manganese	2,000	2,000	mg/kg	668 J	371 J	639 J	NA	496 J	568 J
Mercury	0.81	0.73	mg/kg	0.1	0.082	0.17	NA	0.058	0.11
Nickel	310	130	mg/kg	16.9	14.1	17.8	NA	19.9	17.3
Potassium	NS	NS	mg/kg	994 J	1300 J	1590 J	NA	2180 J	1910 J
Selenium	180	4	mg/kg	< 0.3	< 0.28	0.67 B	NA	< 0.29	< 0.32
Silver	180	8.3	mg/kg	0.94	0.72	1.1	NA	0.72	0.75
Sodium	NS	NS	mg/kg	171 B	219 B	330 B	NA	403 B	320 B
Thallium	NS	NS	mg/kg	< 0.34	< 0.32	< 0.34	NA	< 0.33	< 0.37
Vanadium	NS	NS	mg/kg	31.2	33.1	40.3	NA	38.9	37.1
Zinc	10,000	2,480	mg/kg	127 J	125 J	130 J	NA	94.3 J	119 J
Other									
Solids, Percent	NS	NS	%	87.3	91	82.4	88.5	86	83.2

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater

Table 11. Summary of Post Excavation Analytical Results, Waste Storage Area, Operable Unit 1, Ramapo Pai

Sample ID	375-6.8(b)	375-6.8(b)		SS-WSA-5B (1.0-1.5)	SS-WSA-6B (0.5-1.0)	SS-WSA-6B (1.0-1.5)	SS-WSA-7B (0.5-1.0)	SS-WSA-7B (1.0-1.5)	SS-WSA-8B (0.5-1.0)
Sample Date	NYS Restricted	NYS Protection		8/22/2013	8/14/2013	8/22/2013	8/14/2013	8/22/2013	8/14/2013
VOCS									
1,1,1-Trichloroethane	100	0.68	mg/kg	NA	< 0.00013	NA	< 0.00015	NA	< 0.00011
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	NA	< 0.00016	NA	< 0.00018	NA	< 0.00013
1,1,2-Trichloroethane	NS	NS	mg/kg	NA	< 0.00021	NA	< 0.00024	NA	< 0.00018
1,1-Dichloroethane	26	0.27	mg/kg	NA	< 0.00016	NA	< 0.00019	NA	< 0.00014
1,1-Dichloroethene	100	0.33	mg/kg	NA	< 0.00031	NA	< 0.00036	NA	< 0.00026
1,2,4-Trichlorobenzene	NS	NS	mg/kg	NA	< 0.00017	NA	< 0.00019	NA	< 0.00014
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	NA	< 0.0011	NA	< 0.0012	NA	< 0.0009
1,2-Dibromoethane	NS	NS	mg/kg	NA	< 0.00015	NA	< 0.00018	NA	< 0.00013
1,2-Dichlorobenzene	100	1.1	mg/kg	NA	< 0.00023	NA	< 0.00026	NA	< 0.00019
1,2-Dichloroethane	3.1	0.02	mg/kg	NA	< 0.00016	NA	< 0.00019	NA	< 0.00014
1,2-Dichloropropane	NS	NS	mg/kg	NA	< 0.00018	NA	< 0.00022	NA	< 0.00016
1,3-Dichlorobenzene	49	2.4	mg/kg	NA	< 0.00022	NA	< 0.00026	NA	< 0.00019
1,4-Dichlorobenzene	13	1.8	mg/kg	NA	< 0.00021	NA	< 0.00025	NA	< 0.00018
2-Butanone (MEK)	100	0.12	mg/kg	NA	< 0.0029	NA	0.0404	NA	0.0205
2-Hexanone	NS	NS	mg/kg	NA	< 0.00075	NA	< 0.00087	NA	< 0.00063
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	NA	< 0.0009	NA	< 0.0011	NA	< 0.00076
Acetone	100	0.05	mg/kg	NA	< 0.002	NA	0.346 DJ	NA	0.0697
Benzene	4.8	0.06	mg/kg	NA	< 0.00014	NA	< 0.00017	NA	< 0.00012
Bromodichloromethane	NS	NS	mg/kg	NA	< 0.00013	NA	< 0.00015	NA	< 0.00011
Bromoform	NS	NS	mg/kg	NA	< 0.00018	NA	< 0.00021	NA	< 0.00015
Bromomethane	NS	NS	mg/kg	NA	< 0.00033	NA	< 0.00038	NA	< 0.00027
Carbon disulfide	NS	NS	mg/kg	NA	< 0.00014	NA	< 0.00016	NA	< 0.00012
Carbon tetrachloride	2.4	0.76	mg/kg	NA	< 0.00016	NA	< 0.00019	NA	< 0.00013 J
Chlorobenzene	100	1.1	mg/kg	NA	< 0.00013	NA	< 0.00015	NA	< 0.00011
Chloroethane	NS	NS	mg/kg	NA	< 0.00027	NA	< 0.00032	NA	< 0.00023
Chloroform	49	0.37	mg/kg	NA	< 0.000099	NA	< 0.00012	NA	< 0.000083
Chloromethane	NS	NS	mg/kg	NA	< 0.00022	NA	< 0.00026	NA	< 0.00019
cis-1,2-Dichloroethene	100	0.25	mg/kg	NA	< 0.00022	NA	< 0.00026	NA	< 0.00018
cis-1,3-Dichloropropene	NS	NS	mg/kg	NA	< 0.00017	NA	< 0.00019	NA	< 0.00014
Cyclohexane	NS	NS	mg/kg	NA	< 0.00015	NA	< 0.00017	NA	< 0.00012
Dibromochloromethane	NS	NS	mg/kg	NA	< 0.0002	NA	< 0.00023	NA	< 0.00017
Dichlorodifluoromethane	NS	NS	mg/kg	NA	< 0.00027	NA	< 0.00032	NA	< 0.00023
Ethylbenzene	41	1	mg/kg	NA	< 0.00032	NA	0.0035	NA	0.00082 J
Freon 113	NS	NS	mg/kg	NA	< 0.00052	NA	< 0.0006	NA	< 0.00043
Isopropylbenzene	NS	NS	mg/kg	NA	< 0.000089	NA	0.0019 J	NA	< 0.000075
Methyl Acetate	NS	NS	mg/kg	NA	< 0.0031	NA	< 0.0036	NA	< 0.0026
Methyl Tert Butyl Ether	100	0.93	mg/kg	NA	< 0.00028	NA	< 0.00033	NA	< 0.00024
Methylcyclohexane	NS	NS	mg/kg	NA	< 0.0002	NA	< 0.00024	NA	< 0.00017
Methylene chloride	100	0.05	mg/kg	NA	0.0022 J	NA	0.0043 J	NA	0.004 J
Styrene	NS	NS	mg/kg	NA	< 0.00011	NA	< 0.00013	NA	< 0.000092
Tetrachloroethene	19	1.3	mg/kg	NA	< 0.00021	NA	< 0.00024	NA	< 0.00017
Toluene	100	0.7	mg/kg	NA	< 0.00013	NA	0.0344	NA	0.00043 J
trans-1,2-Dichloroethene	100	0.19	mg/kg	NA	< 0.00029	NA	< 0.00033	NA	< 0.00024
trans-1,3-Dichloropropene	NS	NS	mg/kg	NA	< 0.00019	NA	< 0.00022	NA	< 0.00016
Trichloroethene	21	0.47	mg/kg	NA	< 0.00021	NA	< 0.00024	NA	< 0.00018
Trichlorofluoromethane	NS	NS	mg/kg	NA	< 0.00036	NA	< 0.00042	NA	< 0.0003
Vinyl chloride	0.9	0.02	mg/kg	NA	< 0.00017	NA	< 0.0002	NA	< 0.00014
Xylene (total)	100	1.6	mg/kg	NA	< 0.00017	NA	0.0165	NA	0.0075
Total TIC, Volatile	NS	NS	mg/kg	NA	0	NA	0	NA	0
SVOCs									
1,1'-Biphenyl	NS	NS	mg/kg	NA	< 0.0045	NA	< 0.0046	NA	< 0.0041
2,4,5-Trichlorophenol	NS	NS	mg/kg	NA	< 0.045	NA	< 0.046	NA	< 0.041
2,4,6-Trichlorophenol	NS	NS	mg/kg	NA	< 0.036	NA	< 0.037	NA	< 0.033
2,4-Dichloropheno	NS	NS	mg/kg	NA	< 0.062	NA	< 0.063	NA	< 0.057
2,4-Dimethylpheno	NS	NS	mg/kg	NA	< 0.065	NA	< 0.066	NA	< 0.059

Table 11. Summary of Post Excavation Analytical Results, Waste Storage Area, Operable Unit 1, Ramapo Pai

Sample ID	375-6.8(b)	375-6.8(b)		SS-WSA-5B (1.0-1.5)	SS-WSA-6B (0.5-1.0)	SS-WSA-6B (1.0-1.5)	SS-WSA-7B (0.5-1.0)	SS-WSA-7B (1.0-1.5)	SS-WSA-8B (0.5-1.0)
Sample Date	NYS Restricted	NYS Protection		8/22/2013	8/14/2013	8/22/2013	8/14/2013	8/22/2013	8/14/2013
SVOCs cont.									
2,4-Dinitrophenol	NS	NS	mg/kg	NA	< 0.047	NA	< 0.048	NA	< 0.043
2,4-Dinitrotoluene	NS	NS	mg/kg	NA	< 0.017 J	NA	< 0.017 J	NA	< 0.015
2,6-Dinitrotoluene	NS	NS	mg/kg	NA	< 0.015	NA	< 0.015	NA	< 0.013
2-Chloronaphthalene	NS	NS	mg/kg	NA	< 0.012	NA	< 0.012	NA	< 0.011
2-Chlorophenol	NS	NS	mg/kg	NA	< 0.039	NA	< 0.04	NA	< 0.036
2-Methylnaphthalene	NS	NS	mg/kg	NA	0.0399 J	NA	0.0402 J	NA	< 0.02
2-Methylphenol	100	0.33	mg/kg	NA	< 0.044	NA	< 0.045	NA	< 0.04
2-Nitroaniline	NS	NS	mg/kg	NA	< 0.017	NA	< 0.017	NA	< 0.016
2-Nitrophenol	NS	NS	mg/kg	NA	< 0.041	NA	< 0.042	NA	< 0.037
3&4-Methylphenol	NS	NS	mg/kg	NA	< 0.049	NA	1.05	NA	1.65 J
3,3'-Dichlorobenzidine	NS	NS	mg/kg	NA	< 0.0098	NA	< 0.01	NA	< 0.0089
3-Nitroaniline	NS	NS	mg/kg	NA	< 0.015	NA	< 0.016	NA	< 0.014
4,6-Dinitro-o-cresol	NS	NS	mg/kg	NA	< 0.047	NA	< 0.048	NA	< 0.043
4-Bromophenyl phenyl ether	NS	NS	mg/kg	NA	< 0.014	NA	< 0.014	NA	< 0.013
4-Chloro-3-methyl phenol	NS	NS	mg/kg	NA	< 0.038	NA	< 0.039	NA	< 0.035
4-Chloroaniline	NS	NS	mg/kg	NA	< 0.012	NA	< 0.013	NA	< 0.011
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	NA	< 0.012	NA	< 0.012	NA	< 0.011
4-Nitroaniline	NS	NS	mg/kg	NA	0.12 J	NA	< 0.015	NA	< 0.014
4-Nitrophenol	NS	NS	mg/kg	NA	< 0.065 J	NA	< 0.067 J	NA	< 0.06
Acenaphthene	100	98	mg/kg	0.0198 J	0.0361 J	0.0551	0.0934	0.0261 J	< 0.01
Acenaphthylene	100	107	mg/kg	0.028 J	0.31	0.436	0.207	0.0945	< 0.011
Acetophenone	NS	NS	mg/kg	NA	< 0.0068	NA	< 0.0069	NA	< 0.0062
Anthracene	100	1,000	mg/kg	0.0947	0.367	0.508	0.467	0.146	0.0152 J
Atrazine	NS	NS	mg/kg	NA	< 0.0076 J	NA	< 0.0078 J	NA	< 0.0069
Benzaldehyde	NS	NS	mg/kg	NA	< 0.0088	NA	< 0.0091	NA	< 0.0081 J
Benzo(a)anthracene	1	1	mg/kg	0.381	0.898	1.62	1.05	0.456	0.0663
Benzo(a)pyrene	1	22	mg/kg	0.406	0.762	1.58	0.899	0.46	0.0667
Benzo(b)fluoranthene	1	1.7	mg/kg	0.572	0.978	2.67	1.11	0.665	0.0881
Benzo(g,h,i)perylene	100	1,000	mg/kg	0.28	0.498	0.968	0.529	0.298	0.0476
Benzo(k)fluoranthene	3.9	1.7	mg/kg	0.173	0.375	0.837	0.47	0.194	0.0346 J
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	NA	< 0.016	NA	< 0.016	NA	< 0.014
bis(2-Chloroethyl)ether	NS	NS	mg/kg	NA	< 0.012	NA	< 0.012	NA	< 0.011
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	NA	< 0.011	NA	< 0.012	NA	< 0.01
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	NA	< 0.034	NA	0.385	NA	< 0.031
Butyl benzyl phthalate	NS	NS	mg/kg	NA	< 0.022	NA	< 0.023	NA	< 0.02
Caprolactam	NS	NS	mg/kg	NA	< 0.012	NA	< 0.012	NA	< 0.011 J
Carbazole	NS	NS	mg/kg	NA	0.0818	NA	0.238	NA	< 0.016
Chrysene	3.9	1	mg/kg	0.444	0.964	1.99	1.06	0.516	0.0737
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	0.0827	0.155	0.338	0.174	0.0897	< 0.012
Dibenzofuran	59	210	mg/kg	NA	0.031 J	NA	0.0865	NA	< 0.01
Diethyl phthalate	NS	NS	mg/kg	NA	< 0.013	NA	< 0.013	NA	< 0.012
Dimethyl phthalate	NS	NS	mg/kg	NA	< 0.014	NA	< 0.014	NA	< 0.012
Di-n-butyl phthalate	NS	NS	mg/kg	NA	< 0.0085	NA	< 0.0087	NA	< 0.0078
Di-n-octyl phthalate	NS	NS	mg/kg	NA	< 0.019 J	NA	< 0.019 J	NA	< 0.017
Fluoranthene	100	1,000	mg/kg	0.837	1.64	2.83	2.42	0.912	0.124
Fluorene	100	386	mg/kg	0.0209 J	0.0809	0.0775	0.158	0.0339 J	< 0.012
Hexachlorobenzene	1.2	3.2	mg/kg	NA	< 0.013	NA	< 0.013	NA	< 0.011
Hexachlorobutadiene	NS	NS	mg/kg	NA	< 0.011	NA	< 0.011	NA	< 0.0098
Hexachlorocyclopentadiene	NS	NS	mg/kg	NA	< 0.039 J	NA	< 0.04 J	NA	< 0.036
Hexachloroethane	NS	NS	mg/kg	NA	< 0.011	NA	< 0.011	NA	< 0.0098
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	0.293	0.524	1.14	0.621	0.323	0.05
Isophorone	NS	NS	mg/kg	NA	< 0.01	NA	< 0.011	NA	< 0.0095
Naphthalene	100	12	mg/kg	< 0.0098	0.04	0.131	0.0824	0.0222 J	< 0.0096
Nitrobenzene	NS	NS	mg/kg	NA	< 0.011	NA	< 0.011	NA	< 0.01
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	NA	< 0.0094	NA	< 0.0096	NA	< 0.0086
N-Nitrosodiphenylamine	NS	NS	mg/kg	NA	< 0.023	NA	< 0.024	NA	< 0.021
Pentachlorophenol	6.7	0.8	mg/kg	NA	< 0.066 J	NA	< 0.067 J	NA	< 0.06
Phenanthrene	100	1,000	mg/kg	0.448	0.866	1.14	1.6	0.436	0.0543
Phenol	100	0.33	mg/kg	NA	< 0.04	NA	0.0493 J	NA	0.09
Pyrene	100	1,000	mg/kg	0.726	1.67	2.32	1.95	0.797	0.115
Total TIC, Semi-Volatile	NS	NS	mg/kg	0	6.75 JN	0	16 JN	0	8.39 JN

Table 11. Summary of Post Excavation Analytical Results, Waste Storage Area, Operable Unit 1, Ramapo Pai

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		SS-WSA-5B (1.0-1.5) 8/22/2013	SS-WSA-6B (0.5-1.0) 8/14/2013	SS-WSA-6B (1.0-1.5) 8/22/2013	SS-WSA-7B (0.5-1.0) 8/14/2013	SS-WSA-7B (1.0-1.5) 8/22/2013	SS-WSA-8B (0.5-1.0) 8/14/2013
PCBs									
Aroclor 1016	NS	NS	mg/kg	NA	< 0.01	NA	< 0.011	NA	< 0.0093
Aroclor 1221	NS	NS	mg/kg	NA	< 0.023	NA	< 0.026	NA	< 0.022
Aroclor 1232	NS	NS	mg/kg	NA	< 0.02	NA	< 0.022	NA	< 0.018
Aroclor 1242	NS	NS	mg/kg	NA	< 0.012	NA	< 0.014	NA	< 0.011
Aroclor 1248	NS	NS	mg/kg	NA	< 0.012	NA	< 0.013	NA	< 0.011
Aroclor 1254	NS	NS	mg/kg	NA	< 0.018	NA	< 0.02	NA	< 0.017
Aroclor 1260	NS	NS	mg/kg	NA	< 0.013	NA	< 0.014	NA	< 0.012
Aroclor 1262	NS	NS	mg/kg	NA	< 0.012	NA	< 0.014	NA	< 0.011
Aroclor 1268	NS	NS	mg/kg	NA	< 0.011	NA	< 0.013	NA	< 0.011
Metals									
Aluminum	NS	NS	mg/kg	NA	10200 J	NA	10800 J	NA	8130 J
Antimony	NS	NS	mg/kg	NA	2 J	NA	2.6 J	NA	0.45 J
Arsenic	16	16	mg/kg	NA	6.7	NA	5.7	NA	5
Barium	400	820	mg/kg	NA	129	NA	150	NA	55.5
Beryllium	72	47	mg/kg	NA	0.77	NA	0.55	NA	0.37
Cadmium	4.3	7.5	mg/kg	NA	2.3	NA	0.28 B	NA	< 0.077
Calcium	NS	NS	mg/kg	NA	2410	NA	7190	NA	50100
Chromium	NS	NS	mg/kg	NA	24.6 J	NA	28.6 J	NA	17.7 J
Cobalt	NS	NS	mg/kg	NA	8.2 J	NA	8.6 J	NA	9.8 J
Copper	270	1,720	mg/kg	NA	60.1 J	NA	73.8 J	NA	51.6 J
Iron	NS	NS	mg/kg	NA	21000 J	NA	27700 J	NA	21300 J
Lead	400	450	mg/kg	NA	268	NA	226	NA	27.2
Magnesium	NS	NS	mg/kg	NA	2420	NA	4950	NA	22500
Manganese	2,000	2,000	mg/kg	NA	481 J	NA	632 J	NA	433 J
Mercury	0.81	0.73	mg/kg	NA	0.12	NA	0.15	NA	< 0.007
Nickel	310	130	mg/kg	NA	22.9	NA	16.8	NA	15
Potassium	NS	NS	mg/kg	NA	1080 J	NA	1560 J	NA	2330 J
Selenium	180	4	mg/kg	NA	0.92 B	NA	< 0.35	NA	< 0.28
Silver	180	8.3	mg/kg	NA	0.77	NA	0.95	NA	0.48 B
Sodium	NS	NS	mg/kg	NA	170 B	NA	283 B	NA	501 B
Thallium	NS	NS	mg/kg	NA	< 0.36	NA	< 0.39	NA	< 0.32
Vanadium	NS	NS	mg/kg	NA	28.4	NA	42.7	NA	35.1
Zinc	10,000	2,480	mg/kg	NA	601 J	NA	162 J	NA	45.3 J
Other									
Solids, Percent	NS	NS	%	89.4	78.6	69.4	76	83.7	88.7

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater

Table 11. Summary of Post Excavation Analytical Results, Waste Storage Area, Operable Unit 1, Ramapo Pai

Sample ID	375-6.8(b)	375-6.8(b)		SS-WSA-9B (0.5-1.0)	SS-WSA-9B(1.0-1.5)	SS-WSA-10B (0.5-1.0)	SS-WSA-11B (0.5-1.0)	SS-WSA-12B (0.5-1.0)	SS-WSA-13B (0.5-1.0)
Sample Date	NYS Restricted	NYS Protection		8/14/2013	8/26/2013	8/14/2013	8/15/2013	8/15/2013	8/15/2013
VOCS									
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00013	NA	< 0.00011	< 0.00012	< 0.00012	< 0.00011
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00016	NA	< 0.00014	< 0.00014	< 0.00015	< 0.00014
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00021	NA	< 0.00019	< 0.00019	< 0.00019	< 0.00018
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00016	NA	< 0.00015	< 0.00015	< 0.00015	< 0.00014
1,1-Dichloroethene	100	0.33	mg/kg	< 0.0003	NA	< 0.00028	< 0.00028	< 0.00029	< 0.00027
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00016	NA	< 0.00015	< 0.00015	< 0.00015	< 0.00015
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.0011	NA	< 0.00096	< 0.00098	< 0.00099	< 0.00093
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00015	NA	< 0.00014	< 0.00014	< 0.00014	< 0.00013
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.00022	NA	< 0.0002	< 0.00021	< 0.00021	< 0.0002
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00016	NA	< 0.00015	< 0.00015	< 0.00015	< 0.00014
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00018	NA	< 0.00017	< 0.00017	< 0.00017	< 0.00016
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.00022	NA	< 0.0002	< 0.00021	< 0.00021	< 0.0002
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00021	NA	< 0.00019	< 0.00019	< 0.0002	< 0.00018
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0028	NA	0.161	< 0.0026	< 0.0027	< 0.0025
2-Hexanone	NS	NS	mg/kg	< 0.00073	NA	< 0.00067	< 0.00068	< 0.00069	< 0.00065
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.00089	NA	< 0.00081	< 0.00082	< 0.00083	< 0.00079
Acetone	100	0.05	mg/kg	< 0.002	NA	0.419 DJ	< 0.0019	< 0.0019	< 0.0018
Benzene	4.8	0.06	mg/kg	< 0.00014	NA	< 0.00013	< 0.00013	< 0.00013	< 0.00013
Bromodichloromethane	NS	NS	mg/kg	< 0.00012	NA	< 0.00011	< 0.00012	< 0.00012	< 0.00011
Bromoform	NS	NS	mg/kg	< 0.00018	NA	< 0.00016	< 0.00017	< 0.00017	< 0.00016
Bromomethane	NS	NS	mg/kg	< 0.00032	NA	< 0.00029	< 0.0003	< 0.0003	< 0.00029
Carbon disulfide	NS	NS	mg/kg	< 0.00014	NA	0.00054 J	< 0.00013	< 0.00013	< 0.00012
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00016	NA	< 0.00014	< 0.00015	< 0.00015	< 0.00014
Chlorobenzene	100	1.1	mg/kg	< 0.00013	NA	< 0.00012	< 0.00012	< 0.00012	< 0.00011
Chloroethane	NS	NS	mg/kg	< 0.00027	NA	< 0.00024	< 0.00025	< 0.00025	< 0.00024
Chloroform	49	0.37	mg/kg	< 0.000098	NA	< 0.000089	< 0.000091	< 0.000092	< 0.000087
Chloromethane	NS	NS	mg/kg	< 0.00022	NA	< 0.0002	< 0.0002	< 0.00021	< 0.0002
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00022	NA	< 0.0002	< 0.0002	< 0.0002	< 0.00019
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00016	NA	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Cyclohexane	NS	NS	mg/kg	< 0.00015	NA	< 0.00013	< 0.00014	< 0.00014	< 0.00013
Dibromochloromethane	NS	NS	mg/kg	< 0.00019	NA	< 0.00018	< 0.00018	< 0.00018	< 0.00017
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00027	NA	< 0.00025	< 0.00025	< 0.00025	< 0.00024
Ethylbenzene	41	1	mg/kg	< 0.00031	NA	< 0.00028	< 0.00029	< 0.00029	< 0.00028
Freon 113	NS	NS	mg/kg	< 0.00051	NA	< 0.00046	< 0.00047	< 0.00048	< 0.00045
Isopropylbenzene	NS	NS	mg/kg	< 0.000088	NA	< 0.00008	< 0.000082	< 0.000082	< 0.000078
Methyl Acetate	NS	NS	mg/kg	< 0.0031	NA	< 0.0028	< 0.0029	< 0.0029	< 0.0027
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00028	NA	< 0.00025	< 0.00026	< 0.00026	< 0.00025
Methylcyclohexane	NS	NS	mg/kg	< 0.0002	NA	< 0.00018	< 0.00019	< 0.00019	< 0.00018
Methylene chloride	100	0.05	mg/kg	0.0027 J	NA	0.0023 J	< 0.0014	0.0023 J	< 0.0013
Styrene	NS	NS	mg/kg	< 0.00011	NA	< 0.000099	< 0.0001	< 0.0001	< 0.000096
Tetrachloroethene	19	1.3	mg/kg	< 0.0002	NA	< 0.00019	< 0.00019	< 0.00019	< 0.00018
Toluene	100	0.7	mg/kg	< 0.00012	NA	0.0032	< 0.00012	< 0.00012	< 0.00011
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00028	NA	< 0.00026	< 0.00026	< 0.00026	< 0.00025
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00018	NA	< 0.00017	< 0.00017	< 0.00017	< 0.00016
Trichloroethene	21	0.47	mg/kg	< 0.00021	NA	< 0.00019	< 0.00019	< 0.00019	< 0.00018
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00035	NA	< 0.00032	< 0.00033	< 0.00033	< 0.00031
Vinyl chloride	0.9	0.02	mg/kg	< 0.00017	NA	< 0.00015	< 0.00016	< 0.00016	< 0.00015
Xylene (total)	100	1.6	mg/kg	0.00093 J	NA	0.0012	< 0.00015	< 0.00015	< 0.00015
Total TIC, Volatile	NS	NS	mg/kg	0	NA	0	0	0	0
SVOCs									
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0041	NA	< 0.0043	< 0.0042	< 0.0043	< 0.0046
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.041	NA	< 0.043	< 0.042	< 0.043	< 0.046
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.034	NA	< 0.035	< 0.034	< 0.035	< 0.037
2,4-Dichloropheno	NS	NS	mg/kg	< 0.058	NA	< 0.06	< 0.058	< 0.059	< 0.064
2,4-Dimethylpheno	NS	NS	mg/kg	< 0.06	NA	< 0.062	< 0.06	< 0.062	< 0.067

Table 11. Summary of Post Excavation Analytical Results, Waste Storage Area, Operable Unit 1, Ramapo Pai

Sample ID	375-6.8(b)	375-6.8(b)		SS-WSA-9B (0.5-1.0)	SS-WSA-9B(1.0-1.5)	SS-WSA-10B (0.5-1.0)	SS-WSA-11B (0.5-1.0)	SS-WSA-12B (0.5-1.0)	SS-WSA-13B (0.5-1.0)
Sample Date	NYS Restricted	NYS Protection		8/14/2013	8/26/2013	8/14/2013	8/15/2013	8/15/2013	8/15/2013
SVOCs cont.									
2,4-Dinitropheno	NS	NS	mg/kg	< 0.044	NA	< 0.045	< 0.044	< 0.045	< 0.048
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.016 J	NA	< 0.016	< 0.016	< 0.016	< 0.017
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.014	NA	< 0.014	< 0.014	< 0.014	< 0.015
2-Chloronaphthalene	NS	NS	mg/kg	< 0.011	NA	< 0.012	< 0.011	< 0.011	< 0.012
2-Chloropheno	NS	NS	mg/kg	< 0.036	NA	< 0.038	< 0.036	< 0.037	< 0.04
2-Methylnaphthalene	NS	NS	mg/kg	0.0245 J	NA	0.0299 J	< 0.02	< 0.02	0.0307 J
2-Methylpheno	100	0.33	mg/kg	< 0.041	NA	< 0.042	< 0.041	< 0.042	< 0.045
2-Nitroaniline	NS	NS	mg/kg	< 0.016	NA	< 0.016	< 0.016	< 0.016	< 0.017
2-Nitrophenol	NS	NS	mg/kg	< 0.038	NA	< 0.039	< 0.038	< 0.039	< 0.042
3&4-Methylpheno	NS	NS	mg/kg	< 0.045	NA	0.765	< 0.045	< 0.047	0.394
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0091	NA	< 0.0094	< 0.0091	< 0.0093	< 0.01
3-Nitroaniline	NS	NS	mg/kg	< 0.014	NA	< 0.015	< 0.014	< 0.015	< 0.016
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.044	NA	< 0.045	< 0.044	< 0.045	< 0.048
4-Bromophenyl phenyl ethe	NS	NS	mg/kg	< 0.013	NA	< 0.013	< 0.013	< 0.013	< 0.014
4-Chloro-3-methyl pheno	NS	NS	mg/kg	< 0.036	NA	< 0.037	< 0.036	< 0.037	< 0.04
4-Chloroaniline	NS	NS	mg/kg	< 0.011	NA	< 0.012	< 0.011	< 0.012	< 0.013
4-Chlorophenyl phenyl ethe	NS	NS	mg/kg	< 0.011	NA	< 0.011	< 0.011	< 0.011	< 0.012
4-Nitroaniline	NS	NS	mg/kg	< 0.014	NA	< 0.014	< 0.014	< 0.014	< 0.015
4-Nitrophenol	NS	NS	mg/kg	< 0.06 J	NA	< 0.063	< 0.06	< 0.062	< 0.067
Acenaphthene	100	98	mg/kg	0.0327 J	0.0329 J	0.0285 J	0.0244 J	0.0577	0.0367 J
Acenaphthylene	100	107	mg/kg	0.259	0.191	0.0633	< 0.011	0.016 J	0.0483
Acetophenone	NS	NS	mg/kg	< 0.0063	NA	< 0.0065	< 0.0063	< 0.0065	< 0.007
Anthracene	100	1,000	mg/kg	0.326	0.222	0.122	0.0357 J	0.136	0.128
Atrazine	NS	NS	mg/kg	< 0.007 J	NA	< 0.0073	< 0.007	< 0.0072	< 0.0078
Benzaldehyde	NS	NS	mg/kg	< 0.0082	NA	< 0.0085 J	< 0.0082	< 0.0084	< 0.0091
Benzo(a)anthracene	1	1	mg/kg	0.969	0.669	0.523	0.123	0.356	0.468
Benzo(a)pyrene	1	22	mg/kg	0.769	0.7	0.468	0.118	0.309	0.474
Benzo(b)fluoranthene	1	1.7	mg/kg	1.09	0.94	0.572	0.139	0.357	0.625
Benzo(g,h,i)perylene	100	1,000	mg/kg	0.475	0.432	0.321	0.0643	0.171	0.344
Benzo(k)fluoranthene	3.9	1.7	mg/kg	0.427	0.351	0.226	0.0518	0.141	0.21
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.014	NA	< 0.015	< 0.014	< 0.015	< 0.016
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.011	NA	< 0.011	< 0.011	< 0.011	< 0.012
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.011	NA	< 0.011	< 0.011	< 0.011	< 0.012
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	0.0486 J	NA	0.0868	< 0.032	< 0.032	0.201
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.021	NA	< 0.022	< 0.021	< 0.021	< 0.023
Caprolactam	NS	NS	mg/kg	< 0.011	NA	< 0.012	< 0.011	< 0.012	< 0.012
Carbazole	NS	NS	mg/kg	0.0857	NA	0.0478 J	0.0177 J	0.041 J	0.0582 J
Chrysene	3.9	1	mg/kg	0.992	0.807	0.545	0.139	0.356	0.539
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	0.155	0.124	0.0874	0.0208 J	0.0439	0.0962
Dibenzofuran	59	210	mg/kg	0.0244 J	NA	0.0266 J	< 0.011	0.0231 J	0.0302 J
Diethyl phthalate	NS	NS	mg/kg	< 0.012	NA	< 0.013	< 0.012	< 0.013	< 0.014
Dimethyl phthalate	NS	NS	mg/kg	< 0.013	NA	< 0.013	< 0.013	< 0.013	< 0.014
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0079	NA	< 0.0082	< 0.0079	< 0.0082	< 0.0088
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.017 J	NA	< 0.018	< 0.017	< 0.018	< 0.019
Fluoranthene	100	1,000	mg/kg	1.74	1.27	1.03	0.267	0.816	0.914
Fluorene	100	386	mg/kg	0.0489	0.0428	0.0327 J	0.0166 J	0.0399	0.043
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.012	NA	< 0.012	< 0.012	< 0.012	< 0.013
Hexachlorobutadiene	NS	NS	mg/kg	< 0.0099	NA	< 0.01	< 0.0099	< 0.01	< 0.011
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.036 J	NA	< 0.038	< 0.036	< 0.037	< 0.04
Hexachloroethane	NS	NS	mg/kg	< 0.0099	NA	< 0.01	< 0.0099	< 0.01	< 0.011
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	0.56	0.458	0.314	0.0732	0.185	0.356
Isophorone	NS	NS	mg/kg	< 0.0096	NA	< 0.01	< 0.0096	< 0.0099	< 0.011
Naphthalene	100	12	mg/kg	0.0356 J	0.0473	0.0442	< 0.0098	< 0.01	0.0416
Nitrobenzene	NS	NS	mg/kg	< 0.01	NA	< 0.011	< 0.01	< 0.011	< 0.011
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0087	NA	< 0.0091	< 0.0087	< 0.009	< 0.0097
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.021	NA	< 0.022	< 0.021	< 0.022	< 0.024
Pentachlorophenol	6.7	0.8	mg/kg	< 0.061 J	NA	< 0.064	< 0.061	< 0.063	< 0.068
Phenanthrene	100	1,000	mg/kg	0.53	0.531	0.418	0.206	0.604	0.515
Phenol	100	0.33	mg/kg	< 0.038	NA	0.0715 J	< 0.038	< 0.039	< 0.042
Pyrene	100	1,000	mg/kg	1.45	1.13	0.914	0.244	0.72	0.85
Total TIC, Semi-Volatile	NS	NS	mg/kg	5.01 JN	0	10.3 JN	2.68 JN	2.68 JN	8.64 JN

Table 11. Summary of Post Excavation Analytical Results, Waste Storage Area, Operable Unit 1, Ramapo Pai

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		SS-WSA-9B (0.5-1.0) 8/14/2013	SS-WSA-9B(1.0-1.5) 8/26/2013	SS-WSA-10B (0.5-1.0) 8/14/2013	SS-WSA-11B (0.5-1.0) 8/15/2013	SS-WSA-12B (0.5-1.0) 8/15/2013	SS-WSA-13B (0.5-1.0) 8/15/2013
PCBs									
Aroclor 1016	NS	NS	mg/kg	< 0.0097	NA	< 0.0096	< 0.0094	< 0.0097	< 0.01
Aroclor 1221	NS	NS	mg/kg	< 0.022	NA	< 0.022	< 0.022	< 0.023	< 0.023
Aroclor 1232	NS	NS	mg/kg	< 0.019	NA	< 0.019	< 0.018	< 0.019	< 0.02
Aroclor 1242	NS	NS	mg/kg	< 0.012	NA	< 0.012	< 0.011	< 0.012	< 0.012
Aroclor 1248	NS	NS	mg/kg	< 0.011	NA	< 0.011	< 0.011	< 0.011	< 0.012
Aroclor 1254	NS	NS	mg/kg	< 0.017	NA	< 0.017	< 0.017	< 0.018	< 0.018
Aroclor 1260	NS	NS	mg/kg	< 0.012	NA	< 0.012	< 0.012	< 0.012	< 0.013
Aroclor 1262	NS	NS	mg/kg	< 0.012	NA	< 0.012	< 0.011	< 0.012	< 0.012
Aroclor 1268	NS	NS	mg/kg	< 0.011	NA	< 0.011	< 0.011	< 0.011	< 0.011
Metals									
Aluminum	NS	NS	mg/kg	7590 J	NA	10000 J	8930	9470	8320
Antimony	NS	NS	mg/kg	0.92 J	NA	2.3 J	0.73 B	0.88 B	2.8
Arsenic	16	16	mg/kg	6.6	NA	5.6	4	5.1	8.1
Barium	400	820	mg/kg	62.3	NA	146	39.1	66.1	131
Beryllium	72	47	mg/kg	0.61	NA	0.58	1.2	1.3	1.2
Cadmium	4.3	7.5	mg/kg	0.44 B	NA	0.37 B	< 0.56 UB	< 0.57 UB	0.7
Calcium	NS	NS	mg/kg	2000	NA	3810	920	1390	3240
Chromium	NS	NS	mg/kg	14.7 J	NA	24.4 J	17.3	21.8	24
Cobalt	NS	NS	mg/kg	7.1 J	NA	7.3 J	6.6	7.3	7.8
Copper	270	1,720	mg/kg	35.7 J	NA	58.3 J	34.4	90	50.9
Iron	NS	NS	mg/kg	18800 J	NA	26500 J	21200	26200	30300
Lead	400	450	mg/kg	141	NA	196	38.7	112	225
Magnesium	NS	NS	mg/kg	2540	NA	2620	2320	2220	1970
Manganese	2,000	2,000	mg/kg	391 J	NA	892 J	455	471	1400
Mercury	0.81	0.73	mg/kg	0.04	NA	0.14	0.15	0.17	0.19
Nickel	310	130	mg/kg	14.4	NA	14.7	13.3	16.7	16.3
Potassium	NS	NS	mg/kg	837 J	NA	1070 J	714 B	747 B	872 B
Selenium	180	4	mg/kg	0.49 B	NA	< 0.29	0.31 B	< 0.3	< 0.32
Silver	180	8.3	mg/kg	0.55 B	NA	0.72	0.35 B	0.55 B	0.38 B
Sodium	NS	NS	mg/kg	164 B	NA	192 B	< 1100 UB	< 1100 UB	< 1200 UB
Thallium	NS	NS	mg/kg	< 0.33	NA	< 0.33	< 0.33	< 0.33	< 2.4 UB
Vanadium	NS	NS	mg/kg	24.8	NA	35	29	37.8	32.7
Zinc	10,000	2,480	mg/kg	147 J	NA	171 J	61.5	83.4	124
Other									
Solids, Percent	NS	NS	%	86.4	88.4	87.7	89.3	86.7	83.5

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater

Table 11. Summary of Post Excavation Analytical Results, Waste Storage Area, Operable Unit 1, Ramapo Pai

Sample ID	375-6.8(b)	375-6.8(b)		SS-WSA-14B (0.5-1.0)	SS-WSA-14B (1.0-1.5)	SS-WSA-15B (0.5-1.0)	SS-WSA-16B(0.5-1.0)	SS-WSA-16B(1.0-1.5)	SS-WSA-17B(0.5-1.0)
Sample Date	NYS Restricted	NYS Protection		8/15/2013	8/22/2013	8/15/2013	8/16/2013	8/26/2013	8/16/2013
VOCs									
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00014	NA	< 0.00012	< 0.00011	NA	< 0.00012
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00017	NA	< 0.00014	< 0.00014	NA	< 0.00015
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00023	NA	< 0.00019	< 0.00018	NA	< 0.0002
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00018	NA	< 0.00015	< 0.00014	NA	< 0.00016
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00034	NA	< 0.00028	< 0.00027	NA	< 0.00029
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00018	NA	< 0.00015	< 0.00014	NA	< 0.00016
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.0012	NA	< 0.00097	< 0.00092	NA	< 0.001
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00017	NA	< 0.00014	< 0.00013	NA	< 0.00015
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.00025	NA	< 0.00021	< 0.0002	NA	< 0.00022
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00018	NA	< 0.00015	< 0.00014	NA	< 0.00015
1,2-Dichloropropane	NS	NS	mg/kg	< 0.0002	NA	< 0.00017	< 0.00016	NA	< 0.00018
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.00025	NA	< 0.0002	< 0.00019	NA	< 0.00021
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00023	NA	< 0.00019	< 0.00018	NA	< 0.0002
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0031	NA	< 0.0026	< 0.0025	NA	< 0.0027
2-Hexanone	NS	NS	mg/kg	< 0.00082	NA	< 0.00068	< 0.00065	NA	< 0.00071
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.00099	NA	< 0.00082	< 0.00078	NA	< 0.00086
Acetone	100	0.05	mg/kg	< 0.0022	NA	< 0.0018	< 0.0018	NA	< 0.0019
Benzene	4.8	0.06	mg/kg	< 0.00016	NA	< 0.00013	< 0.00012	NA	< 0.00014
Bromodichloromethane	NS	NS	mg/kg	< 0.00014	NA	< 0.00011	< 0.00011	NA	< 0.00012
Bromoform	NS	NS	mg/kg	< 0.0002	NA	< 0.00017	< 0.00016	NA	< 0.00017
Bromomethane	NS	NS	mg/kg	< 0.00036	NA	< 0.0003	< 0.00028	NA	< 0.00031
Carbon disulfide	NS	NS	mg/kg	< 0.00015	NA	0.00044 J	< 0.00012	NA	< 0.00013
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00017	NA	< 0.00015	< 0.00014	NA	< 0.00015
Chlorobenzene	100	1.1	mg/kg	< 0.00014	NA	< 0.00012	< 0.00011	NA	< 0.00012
Chloroethane	NS	NS	mg/kg	< 0.0003	NA	< 0.00025	< 0.00024	NA	< 0.00026
Chloroform	49	0.37	mg/kg	< 0.00011	NA	< 0.00009	< 0.000086	NA	< 0.000095
Chloromethane	NS	NS	mg/kg	< 0.00024	NA	< 0.0002	< 0.00019	NA	< 0.00021
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00024	NA	< 0.0002	< 0.00019	NA	< 0.00021
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00018	NA	< 0.00015	< 0.00014	NA	< 0.00016
Cyclohexane	NS	NS	mg/kg	< 0.00016	NA	< 0.00014	< 0.00013	NA	< 0.00014
Dibromochloromethane	NS	NS	mg/kg	< 0.00022	NA	< 0.00018	< 0.00017	NA	< 0.00019
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.0003	NA	< 0.00025	< 0.00024	NA	< 0.00026
Ethylbenzene	41	1	mg/kg	< 0.00034	NA	< 0.00029	< 0.00027	NA	< 0.0003
Freon 113	NS	NS	mg/kg	< 0.00056	NA	< 0.00047	< 0.00045	NA	< 0.00049
Isopropylbenzene	NS	NS	mg/kg	< 0.000097	NA	< 0.000081	< 0.000077	NA	< 0.000085
Methyl Acetate	NS	NS	mg/kg	< 0.0034	NA	< 0.0028	< 0.0027	NA	< 0.003
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00031	NA	< 0.00026	< 0.00024	NA	< 0.00027
Methylcyclohexane	NS	NS	mg/kg	< 0.00022	NA	< 0.00018	< 0.00018	NA	< 0.00019
Methylene chloride	100	0.05	mg/kg	0.0019 J	NA	0.0018 J	0.0017 J	NA	0.0015 J
Styrene	NS	NS	mg/kg	< 0.00012	NA	< 0.0001	< 0.000095	NA	< 0.0001
Tetrachloroethene	19	1.3	mg/kg	< 0.00023	NA	< 0.00019	< 0.00018	NA	< 0.0002
Toluene	100	0.7	mg/kg	< 0.00014	NA	< 0.00011	< 0.00011	NA	< 0.00012
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00031	NA	< 0.00026	< 0.00025	NA	< 0.00027
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.0002	NA	< 0.00017	< 0.00016	NA	< 0.00018
Trichloroethene	21	0.47	mg/kg	< 0.00023	NA	< 0.00019	< 0.00018	NA	< 0.0002
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00039	NA	< 0.00033	< 0.00031	NA	< 0.00034
Vinyl chloride	0.9	0.02	mg/kg	< 0.00019	NA	< 0.00016	< 0.00015	NA	< 0.00016
Xylene (total)	100	1.6	mg/kg	< 0.00018	NA	< 0.00015	< 0.00014	NA	< 0.00016
Total TIC, Volatile	NS	NS	mg/kg	0	NA	0	0	NA	0
SVOCs									
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0046	NA	< 0.0045	< 0.0043	NA	< 0.0041
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.046	NA	< 0.045	< 0.043	NA	< 0.041
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.038	NA	< 0.037	< 0.035	NA	< 0.033
2,4-Dichloropheno	NS	NS	mg/kg	< 0.064	NA	< 0.063	< 0.06	NA	< 0.056
2,4-Dimethylpheno	NS	NS	mg/kg	< 0.067	NA	< 0.066	< 0.062	NA	< 0.059

Table 11. Summary of Post Excavation Analytical Results, Waste Storage Area, Operable Unit 1, Ramapo Pai

Sample ID	375-6.8(b)	375-6.8(b)		SS-WSA-14B (0.5-1.0)	SS-WSA-14B (1.0-1.5)	SS-WSA-15B (0.5-1.0)	SS-WSA-16B(0.5-1.0)	SS-WSA-16B(1.0-1.5)	SS-WSA-17B(0.5-1.0)
Sample Date	NYS Restricted	NYS Protection		8/15/2013	8/22/2013	8/15/2013	8/16/2013	8/26/2013	8/16/2013
SVOCs cont.									
2,4-Dinitropheno	NS	NS	mg/kg	< 0.049	NA	< 0.048	< 0.045 J	NA	< 0.043 J
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.017	NA	< 0.017	< 0.016 J	NA	< 0.015 J
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.015	NA	< 0.015	< 0.014	NA	< 0.013
2-Chloronaphthalene	NS	NS	mg/kg	< 0.012	NA	< 0.012	< 0.011	NA	< 0.011
2-Chloropheno	NS	NS	mg/kg	< 0.04	NA	< 0.039	< 0.037	NA	< 0.035
2-Methylnaphthalene	NS	NS	mg/kg	0.18	NA	0.0785	0.0279 J	NA	< 0.02
2-Methylpheno	100	0.33	mg/kg	< 0.046	NA	< 0.045	< 0.042	NA	< 0.04
2-Nitroaniline	NS	NS	mg/kg	< 0.018	NA	< 0.017	< 0.016	NA	< 0.015
2-Nitrophenol	NS	NS	mg/kg	< 0.042	NA	< 0.041	< 0.039	NA	< 0.037
3&4-Methylpheno	NS	NS	mg/kg	0.699	NA	1.47	0.0893	NA	0.226
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.01	NA	< 0.0099	< 0.0094	NA	< 0.0089
3-Nitroaniline	NS	NS	mg/kg	< 0.016	NA	< 0.016	< 0.015	NA	< 0.014
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.049	NA	< 0.048	< 0.045	NA	< 0.043
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.015	NA	< 0.014	< 0.013	NA	< 0.013
4-Chloro-3-methyl pheno	NS	NS	mg/kg	< 0.04	NA	< 0.039	< 0.037	NA	< 0.035
4-Chloroaniline	NS	NS	mg/kg	< 0.013	NA	< 0.013	< 0.012	NA	< 0.011
4-Chlorophenyl phenyl ethe	NS	NS	mg/kg	< 0.012	NA	< 0.012	< 0.011	NA	< 0.011
4-Nitroaniline	NS	NS	mg/kg	< 0.016	NA	< 0.015	< 0.014	NA	< 0.014
4-Nitrophenol	NS	NS	mg/kg	< 0.068	NA	< 0.066	< 0.063	NA	< 0.059
Acenaphthene	100	98	mg/kg	0.0211 J	NA	0.0172 J	< 0.011	< 0.01	< 0.01
Acenaphthylene	100	107	mg/kg	0.0692	NA	0.0493	0.0428	0.0157 J	0.0209 J
Acetophenone	NS	NS	mg/kg	< 0.007	NA	< 0.0069	< 0.0065	NA	< 0.0062
Anthracene	100	1,000	mg/kg	0.106	NA	0.085	0.0696	0.026 J	0.0382
Atrazine	NS	NS	mg/kg	< 0.0079	NA	< 0.0077	< 0.0073 J	NA	< 0.0069 J
Benzaldehyde	NS	NS	mg/kg	< 0.0092	NA	< 0.009	< 0.0085	NA	< 0.008
Benzo(a)anthracene	1	1	mg/kg	0.397	NA	0.344	0.301	0.151	0.175
Benzo(a)pyrene	1	22	mg/kg	0.417	NA	0.346	0.773	0.199	0.19
Benzo(b)fluoranthene	1	1.7	mg/kg	0.567	NA	0.46	0.87	0.27	0.271
Benzo(g,h,i)perylene	100	1,000	mg/kg	0.335	NA	0.275	1.77	0.162	0.147
Benzo(k)fluoranthene	3.9	1.7	mg/kg	0.205	NA	0.149	0.3	0.1	0.0962
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.016	NA	< 0.016	< 0.015	NA	< 0.014
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.012	NA	< 0.012	< 0.011	NA	< 0.011
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.012	NA	< 0.012	< 0.011	NA	< 0.01
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	1.61	NA	0.703	0.187 J	NA	0.251 J
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.023	NA	< 0.023	< 0.021	NA	< 0.02
Caprolactam	NS	NS	mg/kg	< 0.013	NA	< 0.012	< 0.012	NA	< 0.011
Carbazole	NS	NS	mg/kg	0.0473 J	NA	0.0342 J	0.0293 J	NA	0.0192 J
Chrysene	3.9	1	mg/kg	0.47	NA	0.392	0.374	0.195	0.22
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	0.0867	NA	0.074	0.482	0.0452	0.0438
Dibenzofuran	59	210	mg/kg	0.016 J	NA	< 0.012	< 0.011	NA	< 0.01
Diethyl phthalate	NS	NS	mg/kg	< 0.014	NA	< 0.013	< 0.013	NA	< 0.012
Dimethyl phthalate	NS	NS	mg/kg	< 0.014	NA	< 0.014	< 0.013	NA	< 0.012
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0089	NA	< 0.0087	< 0.0082	NA	< 0.0078
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.019	NA	< 0.019	< 0.018	NA	< 0.017
Fluoranthene	100	1,000	mg/kg	0.78	NA	0.647	0.561	0.253	0.354
Fluorene	100	386	mg/kg	0.0288 J	NA	0.0201 J	< 0.012	< 0.012	< 0.011
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.013	NA	< 0.013	< 0.012	NA	< 0.011
Hexachlorobutadiene	NS	NS	mg/kg	< 0.011	NA	< 0.011	< 0.01	NA	< 0.0097
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.041	NA	< 0.04	< 0.038 J	NA	< 0.036 J
Hexachloroethane	NS	NS	mg/kg	< 0.011	NA	< 0.011	< 0.01	NA	< 0.0097
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	0.34	NA	0.283	1.57	0.157	0.15
Isophorone	NS	NS	mg/kg	< 0.011	NA	< 0.011	< 0.0099	NA	< 0.0094
Naphthalene	100	12	mg/kg	0.319	NA	0.16	0.0361 J	< 0.0096	< 0.0096
Nitrobenzene	NS	NS	mg/kg	< 0.012	NA	< 0.011	< 0.011	NA	< 0.01
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0098	NA	< 0.0095	< 0.009	NA	< 0.0085
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.024	NA	< 0.023	< 0.022	NA	< 0.021
Pentachlorophenol	6.7	0.8	mg/kg	< 0.068	NA	< 0.067	< 0.063 J	NA	< 0.06 J
Phenanthrene	100	1,000	mg/kg	0.364	NA	0.281	0.235	0.11	0.18
Phenol	100	0.33	mg/kg	< 0.042	NA	< 0.041	< 0.039	NA	< 0.037
Pyrene	100	1,000	mg/kg	0.693	NA	0.594	0.537	0.228	0.345
Total TIC, Semi-Volatile	NS	NS	mg/kg	21.1 JN	NA	20.9 JN	14.9 JN	0	8.58 JN

Table 11. Summary of Post Excavation Analytical Results, Waste Storage Area, Operable Unit 1, Ramapo Pai

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		SS-WSA-14B (0.5-1.0) 8/15/2013	SS-WSA-14B (1.0-1.5) 8/22/2013	SS-WSA-15B (0.5-1.0) 8/15/2013	SS-WSA-16B(0.5-1.0) 8/16/2013	SS-WSA-16B(1.0-1.5) 8/26/2013	SS-WSA-17B(0.5-1.0) 8/16/2013
PCBs									
Aroclor 1016	NS	NS	mg/kg	< 0.011	NA	< 0.01	< 0.0095	NA	< 0.0089
Aroclor 1221	NS	NS	mg/kg	< 0.025	NA	< 0.024	< 0.022	NA	< 0.021
Aroclor 1232	NS	NS	mg/kg	< 0.021	NA	< 0.02	< 0.018	NA	< 0.017
Aroclor 1242	NS	NS	mg/kg	< 0.013	NA	< 0.013	< 0.012	NA	< 0.011
Aroclor 1248	NS	NS	mg/kg	< 0.012	NA	< 0.012	< 0.011	NA	< 0.01
Aroclor 1254	NS	NS	mg/kg	< 0.019	NA	< 0.018	< 0.017	NA	< 0.016
Aroclor 1260	NS	NS	mg/kg	< 0.013	NA	< 0.013	< 0.012	NA	< 0.011
Aroclor 1262	NS	NS	mg/kg	< 0.013	NA	< 0.013	< 0.012	NA	< 0.011
Aroclor 1268	NS	NS	mg/kg	< 0.012	NA	< 0.012	< 0.011	NA	< 0.01
Metals									
Aluminum	NS	NS	mg/kg	9270	NA	7300	8840	NA	9290
Antimony	NS	NS	mg/kg	3.9	NA	2.3	2.9	NA	2.9
Arsenic	16	16	mg/kg	8.4	NA	6.3	8.7	NA	8.6
Barium	400	820	mg/kg	402	46.4	205	79.6	NA	98.8
Beryllium	72	47	mg/kg	1.4	NA	0.76	1.5	NA	1.4
Cadmium	4.3	7.5	mg/kg	0.88	NA	0.47 B	0.39 B	NA	0.4 B
Calcium	NS	NS	mg/kg	4430	NA	25900	2280	NA	2020
Chromium	NS	NS	mg/kg	30.2	NA	25.5	30.4	NA	24.3
Cobalt	NS	NS	mg/kg	8.9	NA	8.4	7.8	NA	7.8
Copper	270	1,720	mg/kg	65.7	NA	55.5	42	NA	37.9
Iron	NS	NS	mg/kg	30200	NA	28100	51300	NA	32800
Lead	400	450	mg/kg	327	NA	175	141	NA	230
Magnesium	NS	NS	mg/kg	3180	NA	7440	2360	NA	2730
Manganese	2,000	2,000	mg/kg	960	NA	686	1700	NA	1010
Mercury	0.81	0.73	mg/kg	0.16	NA	0.1	0.11	NA	0.09
Nickel	310	130	mg/kg	17.7	NA	14.6	14.9	NA	14.7
Potassium	NS	NS	mg/kg	995 B	NA	1050 B	862 B	NA	900 B
Selenium	180	4	mg/kg	< 0.32	NA	< 0.29	< 0.59	NA	< 0.27
Silver	180	8.3	mg/kg	0.54 B	NA	< 0.11	0.75 B	NA	0.2 B
Sodium	NS	NS	mg/kg	< 1200 UB	NA	< 1100 UB	152 B	NA	178 B
Thallium	NS	NS	mg/kg	< 0.36	NA	0.93 B	1.5 B	NA	1.1
Vanadium	NS	NS	mg/kg	38.9	NA	51.4	81.1	NA	40.2
Zinc	10,000	2,480	mg/kg	205	NA	102	91.1	NA	82.5
Other									
Solids, Percent	NS	NS	%	81.1	86	84.7	87.5	92.5	91

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater

Table 11. Summary of Post Excavation Analytical Results, Waste Storage Area, Operable Unit 1, Ramapo Pai

Sample ID	375-6.8(b)	375-6.8(b)		SS-WSA-18B(0.5-1.0)	SS-WSA-19B(0.5-1.0)	SS-WSA-20B(0.5-1.0)	SS-WSA-21B(1.0-1.5)	DUP(082613)	SS-WSA-22B(1.0-1.5)
Sample Date	NYS Restricted	NYS Protection		8/16/2013	8/16/2013	8/16/2013	8/26/2013	8/26/2013	8/26/2013
VOCS									
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00013	< 0.00011	< 0.00011	< 0.0001	< 0.00011	< 0.00098
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00016	< 0.00013	< 0.00014	< 0.00013	< 0.00013	< 0.00012
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00022	< 0.00018	< 0.00018	< 0.00017	< 0.00018	< 0.00016
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00017	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00013
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00032	< 0.00026	< 0.00027	< 0.00025	< 0.00026	< 0.00024
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00017	< 0.00014	< 0.00015	< 0.00014	< 0.00014	< 0.00013 J
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.0011	< 0.00091	< 0.00093	< 0.00088	< 0.0009	< 0.00082 J
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00016	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00012
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.00023	< 0.00019	< 0.0002	< 0.00019	< 0.00019	< 0.00018
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00017	< 0.00014	< 0.00014	< 0.00013	< 0.00014	< 0.00013
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00019	< 0.00016	< 0.00016	< 0.00015	< 0.00016	< 0.00014
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.00023	< 0.00019	< 0.0002	< 0.00019	< 0.00019	< 0.00017
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00022	< 0.00018	< 0.00018	< 0.00017	< 0.00018	< 0.00016 J
2-Butanone (MEK)	100	0.12	mg/kg	< 0.003	< 0.0024	< 0.0025	< 0.0024	< 0.0024	0.016 J
2-Hexanone	NS	NS	mg/kg	< 0.00077	< 0.00063	< 0.00065	< 0.00062	< 0.00063	< 0.00058
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.00093	< 0.00077	< 0.00079	< 0.00074	< 0.00076	< 0.0007
Acetone	100	0.05	mg/kg	< 0.0021	< 0.0017	< 0.0018	0.0222	0.0236	0.236 E J
Benzene	4.8	0.06	mg/kg	< 0.00015	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00011
Bromodichloromethane	NS	NS	mg/kg	< 0.00013	< 0.00011	< 0.00011	< 0.0001	< 0.00011	< 0.00097
Bromoform	NS	NS	mg/kg	< 0.00019	< 0.00015	< 0.00016	< 0.00015	< 0.00015	< 0.00014
Bromomethane	NS	NS	mg/kg	< 0.00034	< 0.00028	< 0.00029	< 0.00027	< 0.00028	< 0.00025 J
Carbon disulfide	NS	NS	mg/kg	< 0.00014	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00011
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00016	< 0.00014	< 0.00014	< 0.00013	< 0.00014	< 0.00012 J
Chlorobenzene	100	1.1	mg/kg	< 0.00013	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.0001
Chloroethane	NS	NS	mg/kg	< 0.00028	< 0.00023	< 0.00024	< 0.00022	< 0.00023	< 0.00021
Chloroform	49	0.37	mg/kg	< 0.0001	< 0.000084	< 0.000087	< 0.000082	< 0.000084	< 0.000076
Chloromethane	NS	NS	mg/kg	< 0.00023	< 0.00019	< 0.0002	< 0.00018	< 0.00019	< 0.00017
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.00023	< 0.00019	< 0.00019	< 0.00018	< 0.00019	< 0.00017
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00017	< 0.00014	< 0.00015	< 0.00014	< 0.00014	< 0.00013
Cyclohexane	NS	NS	mg/kg	< 0.00015	< 0.00013	< 0.00013	< 0.00012	< 0.00013	< 0.00011
Dibromochloromethane	NS	NS	mg/kg	< 0.0002	< 0.00017	< 0.00017	< 0.00016	< 0.00017	< 0.00015
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00028	< 0.00023	< 0.00024	< 0.00023	< 0.00023	< 0.00021
Ethylbenzene	41	1	mg/kg	< 0.00033	< 0.00027	< 0.00028	< 0.00026	< 0.00027	< 0.00024
Freon 113	NS	NS	mg/kg	< 0.00053	< 0.00044	< 0.00045	< 0.00043	< 0.00044	< 0.0004
Isopropylbenzene	NS	NS	mg/kg	< 0.000092	< 0.000076	< 0.000078	< 0.000074	< 0.000076	< 0.000069
Methyl Acetate	NS	NS	mg/kg	< 0.0032	< 0.0026	< 0.0027	< 0.0026	< 0.0026	< 0.0024
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00029	< 0.00024	< 0.00025	< 0.00023	< 0.00024	< 0.00022
Methylcyclohexane	NS	NS	mg/kg	< 0.00021	< 0.00017	< 0.00018	< 0.00017	< 0.00017	< 0.00016
Methylene chloride	100	0.05	mg/kg	0.0018 J	0.0024 J	0.0027 J	< 0.0013	< 0.0013	0.0013 J
Styrene	NS	NS	mg/kg	< 0.00011	< 0.000093	< 0.000096	< 0.000091	< 0.000093	< 0.000085
Tetrachloroethene	19	1.3	mg/kg	< 0.00021	< 0.00018	< 0.00018	< 0.00017	< 0.00017	< 0.00016
Toluene	100	0.7	mg/kg	< 0.00013	0.00038 J	< 0.00011	< 0.0001	< 0.00011	0.00099
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00029	< 0.00024	< 0.00025	< 0.00024	< 0.00024	< 0.00022
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00019	< 0.00016	< 0.00016	< 0.00015	< 0.00016	< 0.00014
Trichloroethene	21	0.47	mg/kg	< 0.00022	< 0.00018	< 0.00018	< 0.00017	< 0.00018	< 0.00016
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00037	< 0.0003	< 0.00031	< 0.0003	< 0.0003	< 0.00028
Vinyl chloride	0.9	0.02	mg/kg	< 0.00018	< 0.00015	< 0.00015	< 0.00014	< 0.00015	< 0.00013
Xylene (total)	100	1.6	mg/kg	< 0.00017	< 0.00014	< 0.00015	< 0.00014	< 0.00014	< 0.00013
Total TIC, Volatile	NS	NS	mg/kg	0	0	0	0.0093 JN	0.0053 JN	0
SVOCs									
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0041	< 0.0045	< 0.004	< 0.004	< 0.004	< 0.004
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.041	< 0.045	< 0.04	< 0.04	< 0.04	< 0.04
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.033	< 0.037	< 0.032	< 0.033	< 0.033	< 0.033
2,4-Dichloropheno	NS	NS	mg/kg	< 0.057	< 0.063	< 0.055	< 0.056	< 0.056	< 0.056
2,4-Dimethylpheno	NS	NS	mg/kg	< 0.059	< 0.065	< 0.057	< 0.058	< 0.058	< 0.058

Table 11. Summary of Post Excavation Analytical Results, Waste Storage Area, Operable Unit 1, Ramapo Pai

Sample ID	375-6.8(b)	375-6.8(b)		SS-WSA-18B(0.5-1.0)	SS-WSA-19B(0.5-1.0)	SS-WSA-20B(0.5-1.0)	SS-WSA-21B(1.0-1.5)	DUP(082613)	SS-WSA-22B(1.0-1.5)
Sample Date	NYS Restricted	NYS Protection		8/16/2013	8/16/2013	8/16/2013	8/26/2013	8/26/2013	8/26/2013
SVOCs cont.									
2,4-Dinitrophenol	NS	NS	mg/kg	< 0.043 J	< 0.047 J	< 0.042 J	< 0.042	< 0.042	< 0.042
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.015 J	< 0.017 J	< 0.015 J	< 0.015	< 0.015	< 0.015
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.013	< 0.015	< 0.013	< 0.013	< 0.013	< 0.013
2-Chloronaphthalene	NS	NS	mg/kg	< 0.011	< 0.012	< 0.011	< 0.011	< 0.011	< 0.011
2-Chlorophenol	NS	NS	mg/kg	< 0.036	< 0.039	< 0.035	< 0.035	< 0.035	< 0.035
2-Methylnaphthalene	NS	NS	mg/kg	0.0333 J	0.0225 J	0.0339 J	< 0.019	< 0.019	< 0.019
2-Methylphenol	100	0.33	mg/kg	< 0.04	< 0.044	< 0.039	< 0.04	< 0.039	< 0.04
2-Nitroaniline	NS	NS	mg/kg	< 0.016	< 0.017	< 0.015	< 0.015	< 0.015	< 0.015
2-Nitrophenol	NS	NS	mg/kg	< 0.037	< 0.041	< 0.036	< 0.037	< 0.037	< 0.037
3&4-Methylphenol	NS	NS	mg/kg	0.0991	0.337	0.425	< 0.044	< 0.044	0.659
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.009	< 0.0099	< 0.0087	< 0.0088	< 0.0088	< 0.0088
3-Nitroaniline	NS	NS	mg/kg	< 0.014	< 0.016	< 0.014	< 0.014	< 0.014	< 0.014
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.043	< 0.047	< 0.042	< 0.042 J	< 0.042 J	< 0.042 J
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.013	< 0.014	< 0.012	< 0.013	< 0.013	< 0.013
4-Chloro-3-methyl phenol	NS	NS	mg/kg	< 0.035	< 0.039	< 0.034	< 0.035	< 0.035	< 0.035
4-Chloroaniline	NS	NS	mg/kg	< 0.011	< 0.012	< 0.011	< 0.011	< 0.011	< 0.011
4-Chlorophenyl phenyl ether	NS	NS	mg/kg	< 0.011	< 0.012	< 0.01	< 0.01	< 0.01	< 0.01
4-Nitroaniline	NS	NS	mg/kg	< 0.014	< 0.015	< 0.013	< 0.014	< 0.014	< 0.014
4-Nitrophenol	NS	NS	mg/kg	< 0.06	< 0.066	< 0.058	< 0.059 J	< 0.059 J	< 0.059 J
Acenaphthene	100	98	mg/kg	< 0.01	< 0.011	< 0.0099	< 0.01	< 0.01	< 0.01
Acenaphthylene	100	107	mg/kg	0.0159 J	0.0337 J	0.0268 J	< 0.011	< 0.011	0.0349 J
Acetophenone	NS	NS	mg/kg	< 0.0062	< 0.0068	< 0.006	< 0.0061 J	< 0.0061 J	< 0.0061 J
Anthracene	100	1,000	mg/kg	0.0343 J	0.0555	0.0535	< 0.012	0.0203 J	0.0533
Atrazine	NS	NS	mg/kg	< 0.0069 J	< 0.0077 J	< 0.0067 J	< 0.0068	< 0.0068	< 0.0068
Benzaldehyde	NS	NS	mg/kg	< 0.0081	< 0.0089	< 0.0079	< 0.008	< 0.008	< 0.008
Benzo(a)anthracene	1	1	mg/kg	0.169	0.244	0.175	0.0788	0.0793	0.22
Benzo(a)pyrene	1	22	mg/kg	0.179	0.242	0.168	0.101	0.085	0.258
Benzo(b)fluoranthene	1	1.7	mg/kg	0.254	0.349	0.237	0.157	0.104	0.339
Benzo(g,h,i)perylene	100	1,000	mg/kg	0.135	0.18	0.126	0.077	0.0455	0.173
Benzo(k)fluoranthene	3.9	1.7	mg/kg	0.0872	0.13	0.0862	0.053	0.0323 J	0.121
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.014	< 0.016	< 0.014	< 0.014	< 0.014	< 0.014
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.011	< 0.012	< 0.01	< 0.01	< 0.01	< 0.01
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.01	< 0.012	< 0.01	< 0.01	< 0.01	< 0.01
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	1.41 J	0.262 J	0.251 J	< 0.031 J	< 0.031 J	< 0.031 J
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.02	< 0.023	< 0.02	< 0.02	< 0.02	< 0.02
Caprolactam	NS	NS	mg/kg	< 0.011	< 0.012	< 0.011	< 0.011	< 0.011	< 0.011
Carbazole	NS	NS	mg/kg	< 0.016	0.0249 J	0.0195 J	< 0.016	< 0.016	0.0222 J
Chrysene	3.9	1	mg/kg	0.202	0.292	0.199	0.105	0.0906	0.267
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	0.0392	0.0515	0.0338 J	0.0202 J	< 0.012	0.0453
Dibenzofuran	59	210	mg/kg	< 0.01	< 0.012	< 0.01	< 0.01	< 0.01	< 0.01
Diethyl phthalate	NS	NS	mg/kg	< 0.012	< 0.013	< 0.012	< 0.012	< 0.012	< 0.012
Dimethyl phthalate	NS	NS	mg/kg	< 0.012	< 0.014	< 0.012	< 0.012	< 0.012	< 0.012
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0078	< 0.0086	< 0.0076	< 0.0077	< 0.0077	< 0.0077
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.017	< 0.019	< 0.017	< 0.017 J	< 0.017 J	< 0.017 J
Fluoranthene	100	1,000	mg/kg	0.334	0.463	0.347	0.121	0.161	0.334
Fluorene	100	386	mg/kg	< 0.012	< 0.013	0.0153 J	< 0.011	< 0.011	0.0143 J
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.011	< 0.013	< 0.011	< 0.011	< 0.011	< 0.011
Hexachlorobutadiene	NS	NS	mg/kg	< 0.0098	< 0.011	< 0.0095	< 0.0096	< 0.0096	< 0.0097
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.036 J	< 0.04 J	< 0.035 J	< 0.035	< 0.035	< 0.035
Hexachloroethane	NS	NS	mg/kg	< 0.0098	< 0.011	< 0.0095	< 0.0096	< 0.0096	< 0.0097
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	0.143	0.192	0.131	0.0762	0.046	0.177
Isophorone	NS	NS	mg/kg	< 0.0095	< 0.01	< 0.0092	< 0.0093	< 0.0093	< 0.0094
Naphthalene	100	12	mg/kg	0.0517	0.0337 J	0.0816	< 0.0095	< 0.0095	< 0.0095
Nitrobenzene	NS	NS	mg/kg	< 0.01	< 0.011	< 0.0099	< 0.01	< 0.01	< 0.01
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0086	< 0.0095	< 0.0084	< 0.0085	< 0.0085	< 0.0085
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.021	< 0.023	< 0.02	< 0.021	< 0.021	< 0.021
Pentachlorophenol	6.7	0.8	mg/kg	< 0.06 J	< 0.066 J	< 0.059 J	< 0.059	< 0.059	< 0.059
Phenanthrene	100	1,000	mg/kg	0.128	0.197	0.176	0.0439	0.0746	0.181
Phenol	100	0.33	mg/kg	< 0.037	< 0.041	< 0.036	< 0.036	< 0.036	< 0.036
Pyrene	100	1,000	mg/kg	0.321	0.456	0.326	0.104	0.123	0.344
Total TIC, Semi-Volatile	NS	NS	mg/kg	7.97 JN	11 JN	10.6 JN	1.44 JN	0.29 JN	10.6 JN

Table 11. Summary of Post Excavation Analytical Results, Waste Storage Area, Operable Unit 1, Ramapo Pai

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		SS-WSA-18B(0.5-1.0) 8/16/2013	SS-WSA-19B(0.5-1.0) 8/16/2013	SS-WSA-20B(0.5-1.0) 8/16/2013	SS-WSA-21B(1.0-1.5) 8/26/2013	DUP(082613) 8/26/2013	SS-WSA-22B(1.0-1.5) 8/26/2013
PCBs									
Aroclor 1016	NS	NS	mg/kg	< 0.0091	< 0.01	< 0.0088	< 0.0093	< 0.0093	< 0.0091
Aroclor 1221	NS	NS	mg/kg	< 0.021	< 0.024	< 0.02	< 0.022	< 0.021	< 0.021
Aroclor 1232	NS	NS	mg/kg	< 0.018	< 0.02	< 0.017	< 0.018	< 0.018	< 0.018
Aroclor 1242	NS	NS	mg/kg	< 0.011	< 0.012	< 0.011	< 0.011	< 0.011	< 0.011
Aroclor 1248	NS	NS	mg/kg	< 0.011	< 0.012	< 0.01	< 0.011	< 0.011	< 0.011
Aroclor 1254	NS	NS	mg/kg	< 0.016	< 0.018	< 0.016	< 0.017	< 0.017	< 0.016
Aroclor 1260	NS	NS	mg/kg	< 0.011	< 0.013	< 0.011	< 0.012	< 0.012	< 0.011
Aroclor 1262	NS	NS	mg/kg	< 0.011	< 0.012	< 0.011	< 0.011	< 0.011	< 0.011
Aroclor 1268	NS	NS	mg/kg	< 0.01	< 0.012	< 0.0099	< 0.011	< 0.01	< 0.01
Metals									
Aluminum	NS	NS	mg/kg	8380	9480	9440	9110	8800	7850
Antimony	NS	NS	mg/kg	2.7	2.3	1.9 B	1.3 J	1.4 J	2.4 J
Arsenic	16	16	mg/kg	10.7	6.7	5.9	6.9	7.8	6.2
Barium	400	820	mg/kg	70.4	242	124	57.3	51.3	70.6
Beryllium	72	47	mg/kg	1.3	1.5	1.6	1.3	1.4	1.3
Cadmium	4.3	7.5	mg/kg	< 0.15	< 0.58 UB	< 0.55 UB	0.19 B	0.15 B	0.27 B
Calcium	NS	NS	mg/kg	1660	3890	17400	1480 J	1390 J	3960 J
Chromium	NS	NS	mg/kg	26.2	23.9	21.1	23.7	18.5	23.1
Cobalt	NS	NS	mg/kg	8.3	7.8	10	8	7.7	7.5
Copper	270	1,720	mg/kg	34.3	36.6	60.9	33.3	56.3	42.5
Iron	NS	NS	mg/kg	51200	34000	30900	27900 J	32300 J	33300 J
Lead	400	450	mg/kg	104	144	119	105	89.7	144
Magnesium	NS	NS	mg/kg	2150	2980	7220	2130	2240	2270
Manganese	2,000	2,000	mg/kg	935	898	694	747	646	729
Mercury	0.81	0.73	mg/kg	0.13	0.095	0.061	0.076	0.085	0.099
Nickel	310	130	mg/kg	17.6	16	14.2	16.7	15.4	16.5
Potassium	NS	NS	mg/kg	801 B	1080 B	1270	968 B	896 B	878 B
Selenium	180	4	mg/kg	< 0.55	< 0.3	< 0.28	0.45 B	0.81 B	0.45 B
Silver	180	8.3	mg/kg	< 0.21	0.31 B	0.4 B	0.27 B	0.11 B	< 0.11
Sodium	NS	NS	mg/kg	149 B	200 B	358 B	153 B	124 B	143 B
Thallium	NS	NS	mg/kg	1.5 B	0.6 B	0.56 B	< 0.32	< 0.31	< 0.32
Vanadium	NS	NS	mg/kg	32	37.1	63.2	29.5	30.9	33.5
Zinc	10,000	2,480	mg/kg	67.5	88.6	98.3	62.6	58	98.4
Other									
Solids, Percent	NS	NS	%	89.8	84.6	89.9	91.8	92.8	93.1

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater

Table 11. Summary of Post Excavation Analytical Results, Waste Storage Area, Operable Unit 1, Ramapo Pai

Sample ID	375-6.8(b)	375-6.8(b)		SS-WSA-23B(1.0-1.5)	SS-WSA-24B(1.0-1.5)	SS-WSA-25B(1.0-1.5)	SS-YP-1B (1.5-2.0)	SS-YP-2B (1.5-2.0)	SS-YP-3B (3.5-4.0)
Sample Date	NYS Restricted	NYS Protection		8/26/2013	8/27/2013	8/27/2013	8/28/2013	8/28/2013	8/29/2013
VOCS									
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00011	< 0.00011	< 0.00012 J	< 0.00011	< 0.0001	< 0.00011
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00014	< 0.00014	< 0.00015 J	< 0.00014	< 0.00013	< 0.00014
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00019	< 0.00018	< 0.0002 J	< 0.00019	< 0.00017	< 0.00018
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00015	< 0.00015	< 0.00016 J	< 0.00015	< 0.00013	< 0.00014
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00028	< 0.00027	< 0.00029 J	< 0.00028	< 0.00024	< 0.00027
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00015	< 0.00015	< 0.00016 J	< 0.00015	< 0.00013	< 0.00015
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.00096	< 0.00095	< 0.001 J	< 0.00095	< 0.00085	< 0.00093
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00014	< 0.00013	< 0.00015 J	< 0.00014	< 0.00012	< 0.00013
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.0002	< 0.0002	< 0.00022 J	< 0.0002	< 0.00018	< 0.0002
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00015	< 0.00014	< 0.00015 J	< 0.00014	< 0.00013	< 0.00014
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00017	< 0.00016	< 0.00018	< 0.00017	< 0.00015	< 0.00016
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.0002	< 0.0002	< 0.00021 J	< 0.0002	< 0.00018	< 0.0002
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00019	< 0.00019	< 0.0002 J	< 0.00019	< 0.00017	< 0.00018
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0026	< 0.0025	< 0.0027 J	< 0.0026	< 0.0023	< 0.0025 J
2-Hexanone	NS	NS	mg/kg	< 0.00067	< 0.00066	< 0.00071 J	< 0.00067	< 0.00059	< 0.00065
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.00081	< 0.0008	< 0.00086 J	< 0.00081	< 0.00071	< 0.00079
Acetone	100	0.05	mg/kg	< 0.0018	0.0075 J	0.0383 J	< 0.0018	< 0.0016	< 0.0018
Benzene	4.8	0.06	mg/kg	< 0.00013	< 0.00013	< 0.00014 J	< 0.00013	< 0.00011	< 0.00012
Bromodichloromethane	NS	NS	mg/kg	< 0.00011	< 0.00011	< 0.00012 J	< 0.00011	< 0.0001	< 0.00011
Bromoform	NS	NS	mg/kg	< 0.00016	< 0.00016	< 0.00017 J	< 0.00016	< 0.00014	< 0.00016
Bromomethane	NS	NS	mg/kg	< 0.00029 J	< 0.00029	< 0.00031 J	< 0.00029	< 0.00026	< 0.00029
Carbon disulfide	NS	NS	mg/kg	< 0.00013	< 0.00012	< 0.00013 J	< 0.00013	< 0.00011	< 0.00012
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00014 J	< 0.00014 J	< 0.00015 J	< 0.00014	< 0.00013	< 0.00014
Chlorobenzene	100	1.1	mg/kg	< 0.00012	< 0.00011	< 0.00012 J	< 0.00012	< 0.0001	< 0.00011
Chloroethane	NS	NS	mg/kg	< 0.00024	< 0.00024	< 0.00026 J	< 0.00024	< 0.00022	< 0.00024
Chloroform	49	0.37	mg/kg	< 0.000089	< 0.000088	< 0.000095 J	< 0.000089	< 0.000079	< 0.000087
Chloromethane	NS	NS	mg/kg	< 0.0002	< 0.0002	< 0.00021 J	< 0.0002	< 0.00018	< 0.00019
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.0002	< 0.00019	< 0.00021	< 0.0002	< 0.00017	< 0.00019
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00015	< 0.00015	< 0.00016 J	< 0.00015	< 0.00013	< 0.00015
Cyclohexane	NS	NS	mg/kg	< 0.00013	< 0.00013	< 0.00014 J	< 0.00013	< 0.00012	< 0.00013
Dibromochloromethane	NS	NS	mg/kg	< 0.00018	< 0.00017	< 0.00019 J	< 0.00018	< 0.00016	< 0.00017
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00025	< 0.00024	< 0.00026 J	< 0.00024	< 0.00022	< 0.00024
Ethylbenzene	41	1	mg/kg	< 0.00028	< 0.00028	0.0036 J	< 0.00028	< 0.00025	< 0.00028
Freon 113	NS	NS	mg/kg	< 0.00046	< 0.00046 J	< 0.00049 J	< 0.00046	< 0.00041	< 0.00045
Isopropylbenzene	NS	NS	mg/kg	< 0.00008	< 0.000079	0.00067 J	< 0.00008	< 0.000071	< 0.000078
Methyl Acetate	NS	NS	mg/kg	< 0.0028	< 0.0028	< 0.003 J	< 0.0028	< 0.0025	< 0.0027
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00025	< 0.00025	< 0.00027 J	< 0.00025	< 0.00022	< 0.00025
Methylcyclohexane	NS	NS	mg/kg	< 0.00018	< 0.00018	< 0.00019 J	< 0.00018	< 0.00016	< 0.00018
Methylene chloride	100	0.05	mg/kg	< 0.0014	0.0016 J	< 0.0015 J	0.0039 J	0.0055	0.0022 J
Styrene	NS	NS	mg/kg	< 0.000099	< 0.000097	< 0.00011 J	< 0.000098	< 0.000087	< 0.000096
Tetrachloroethene	19	1.3	mg/kg	< 0.00019	< 0.00018	< 0.0002 J	< 0.00018	< 0.00016	< 0.00018
Toluene	100	0.7	mg/kg	0.00043 J	< 0.00011	0.00097 J	< 0.00011	< 0.0001	< 0.00011
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00026	< 0.00025	< 0.00027	< 0.00026	< 0.00023	< 0.00025
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00017	< 0.00016	< 0.00018 J	< 0.00017	< 0.00015	< 0.00016
Trichloroethene	21	0.47	mg/kg	< 0.00019	< 0.00018	< 0.0002 J	< 0.00019	< 0.00017	< 0.00018
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00032	< 0.00032	< 0.00034 J	< 0.00032	< 0.00028	< 0.00031
Vinyl chloride	0.9	0.02	mg/kg	< 0.00016	< 0.00015	< 0.00016 J	< 0.00015	< 0.00014	< 0.00015
Xylene (total)	100	1.6	mg/kg	< 0.00015	< 0.00015	0.0283 J	< 0.00015	< 0.00013	< 0.00015
Total TIC, Volatile	NS	NS	mg/kg	0	0	0.0782 JN	0.0064 JN	0	0
SVOCs									
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0042	< 0.0037	< 0.0045	< 0.0042	< 0.0037	< 0.0041
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.042	< 0.037	< 0.045	< 0.042	< 0.037	< 0.041
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.034	< 0.03	< 0.037	< 0.034	< 0.03	< 0.033
2,4-Dichloropheno	NS	NS	mg/kg	< 0.059	< 0.052	< 0.063	< 0.058	< 0.052	< 0.057
2,4-Dimethylpheno	NS	NS	mg/kg	< 0.061	< 0.054	< 0.065	< 0.061	< 0.054	< 0.06

Table 11. Summary of Post Excavation Analytical Results, Waste Storage Area, Operable Unit 1, Ramapo Pai

Sample ID	375-6.8(b)	375-6.8(b)		SS-WSA-23B(1.0-1.5)	SS-WSA-24B(1.0-1.5)	SS-WSA-25B(1.0-1.5)	SS-YP-1B (1.5-2.0)	SS-YP-2B (1.5-2.0)	SS-YP-3B (3.5-4.0)
Sample Date	NYS Restricted	NYS Protection		8/26/2013	8/27/2013	8/27/2013	8/28/2013	8/28/2013	8/29/2013
SVOCs cont.									
2,4-Dinitropheno	NS	NS	mg/kg	< 0.045	< 0.039	< 0.048	< 0.044	< 0.039	< 0.043 J
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.016	< 0.014	< 0.017	< 0.016	< 0.014	< 0.016
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.014	< 0.012	< 0.015	< 0.014	< 0.012	< 0.014
2-Chloronaphthalene	NS	NS	mg/kg	< 0.011	< 0.01	< 0.012	< 0.011	< 0.0099	< 0.011
2-Chloropheno	NS	NS	mg/kg	< 0.037	< 0.032	< 0.039	< 0.037	< 0.032	< 0.036
2-Methylnaphthalene	NS	NS	mg/kg	< 0.02	< 0.018	< 0.022	< 0.02	< 0.018	< 0.02
2-Methylpheno	100	0.33	mg/kg	< 0.042	< 0.037	< 0.044	< 0.041	< 0.037	< 0.041
2-Nitroaniline	NS	NS	mg/kg	< 0.016	< 0.014	< 0.017	< 0.016	< 0.014	< 0.016
2-Nitrophenol	NS	NS	mg/kg	< 0.039	< 0.034	< 0.041	< 0.038	< 0.034	< 0.038
3&4-Methylpheno	NS	NS	mg/kg	0.105	< 0.041	0.153	< 0.046	< 0.041	< 0.045
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0093	< 0.0082	< 0.0099	< 0.0092	< 0.0081	< 0.009
3-Nitroaniline	NS	NS	mg/kg	< 0.015	< 0.013	< 0.016	< 0.014	< 0.013	< 0.014
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.045 J	< 0.039	< 0.048 J	< 0.044 J	< 0.039 J	< 0.043 J
4-Bromophenyl phenyl ethe	NS	NS	mg/kg	< 0.013	< 0.012	< 0.014	< 0.013	< 0.012	< 0.013
4-Chloro-3-methyl pheno	NS	NS	mg/kg	< 0.037	< 0.032	< 0.039	< 0.036	< 0.032	< 0.036
4-Chloroaniline	NS	NS	mg/kg	< 0.012	< 0.01	< 0.012	< 0.012	< 0.01	< 0.011
4-Chlorophenyl phenyl ethe	NS	NS	mg/kg	< 0.011	< 0.0097	< 0.012	< 0.011	< 0.0097	< 0.011
4-Nitroaniline	NS	NS	mg/kg	< 0.014	< 0.013	< 0.015 J	< 0.014	< 0.013	< 0.014
4-Nitrophenol	NS	NS	mg/kg	< 0.062 J	< 0.054	< 0.066	< 0.061	< 0.054	< 0.06
Acenaphthene	100	98	mg/kg	< 0.011	< 0.0093	< 0.011	0.0179 J	< 0.0093	< 0.01
Acenaphthylene	100	107	mg/kg	0.0337 J	0.0151 J	0.0201 J	< 0.012	< 0.01	< 0.011
Acetophenone	NS	NS	mg/kg	< 0.0064 J	< 0.0057	< 0.0069	< 0.0064	< 0.0056	< 0.0063
Anthracene	100	1,000	mg/kg	0.052	0.0236 J	0.0841	0.0395	< 0.011	< 0.012
Atrazine	NS	NS	mg/kg	< 0.0072	< 0.0063	< 0.0077	< 0.0071	< 0.0063	< 0.007
Benzaldehyde	NS	NS	mg/kg	< 0.0084	< 0.0074	< 0.009	< 0.0083	< 0.0074	< 0.0082
Benzo(a)anthracene	1	1	mg/kg	0.231	0.104	0.349	0.0832	< 0.01	< 0.012
Benzo(a)pyrene	1	22	mg/kg	0.269	0.111	0.329	0.0701	< 0.0098	< 0.011
Benzo(b)fluoranthene	1	1.7	mg/kg	0.365	0.145	0.39	0.0807	< 0.011	< 0.012
Benzo(g,h,i)perylene	100	1,000	mg/kg	0.177	0.0819	0.248	0.0351 J	< 0.012	< 0.013
Benzo(k)fluoranthene	3.9	1.7	mg/kg	0.126	0.0579	0.131	0.0341 J	< 0.012	< 0.013
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.015	< 0.013	< 0.016	< 0.015	< 0.013	< 0.014
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.011	< 0.0097	< 0.012	< 0.011	< 0.0097	< 0.011
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.011	< 0.0096	< 0.012	< 0.011	< 0.0095	< 0.011
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.032 J	< 0.028	0.146	< 0.032	< 0.028	< 0.031
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.021	< 0.019	< 0.023	< 0.021	< 0.019	< 0.021
Caprolactam	NS	NS	mg/kg	< 0.012	< 0.01	< 0.012	< 0.011	< 0.01	< 0.011
Carbazole	NS	NS	mg/kg	0.0193 J	< 0.015	< 0.018	< 0.017	< 0.015	< 0.016
Chrysene	3.9	1	mg/kg	0.286	0.131	0.37	0.0903	< 0.011	< 0.012
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	0.0491	0.0212 J	0.051	< 0.012	< 0.011	< 0.012
Dibenzofuran	59	210	mg/kg	< 0.011	< 0.0096	< 0.012	< 0.011	< 0.0095	< 0.011
Diethyl phthalate	NS	NS	mg/kg	< 0.012	< 0.011	< 0.013	< 0.012	< 0.011	< 0.012
Dimethyl phthalate	NS	NS	mg/kg	< 0.013	< 0.011	< 0.014	< 0.013	< 0.011	< 0.013
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0081	< 0.0071	< 0.0086	< 0.008	< 0.0071	< 0.0079
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.018 J	< 0.016	< 0.019	< 0.018	< 0.016	< 0.017
Fluoranthene	100	1,000	mg/kg	0.34	0.192	0.663	0.18	< 0.014	< 0.016
Fluorene	100	386	mg/kg	< 0.012	< 0.011	0.0179 J	0.0165 J	< 0.011	< 0.012
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.012	< 0.01	< 0.013	< 0.012	< 0.01	< 0.012
Hexachlorobutadiene	NS	NS	mg/kg	< 0.01	< 0.0089	< 0.011	< 0.01	< 0.0089	< 0.0099
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.037	< 0.033	< 0.04	< 0.037	< 0.033	< 0.036
Hexachloroethane	NS	NS	mg/kg	< 0.01	< 0.0089	< 0.011	< 0.01	< 0.0089	< 0.0099
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	0.183	0.0644	0.182	0.0351 J	< 0.011	< 0.012
Isophorone	NS	NS	mg/kg	< 0.0098	< 0.0087	< 0.01	< 0.0097	< 0.0086	< 0.0096
Naphthalene	100	12	mg/kg	< 0.01	< 0.0088	0.033 J	< 0.0099	< 0.0088	< 0.0097
Nitrobenzene	NS	NS	mg/kg	< 0.011	< 0.0093	< 0.011	< 0.01	< 0.0093	< 0.01
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0089	< 0.0079	< 0.0095	< 0.0088	< 0.0078	< 0.0087
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.022	< 0.019	< 0.023	< 0.022	< 0.019	< 0.021
Pentachlorophenol	6.7	0.8	mg/kg	< 0.063	< 0.055	< 0.067 J	< 0.062	< 0.055	< 0.061
Phenanthrene	100	1,000	mg/kg	0.159	0.103	0.299	0.184	< 0.015	< 0.016
Phenol	100	0.33	mg/kg	< 0.038	< 0.034	< 0.041	< 0.038	< 0.034	< 0.037
Pyrene	100	1,000	mg/kg	0.366	0.192	0.781	0.154	< 0.012	0.0141 J
Total TIC, Semi-Volatile	NS	NS	mg/kg	4.09 JN	0.71 JN	5.11 JN	0	0	3.25 JN

Table 11. Summary of Post Excavation Analytical Results, Waste Storage Area, Operable Unit 1, Ramapo Pai

Sample ID Sample Date	375-6.8(b) NYS Restricted	375-6.8(b) NYS Protection		SS-WSA-23B(1.0-1.5) 8/26/2013	SS-WSA-24B(1.0-1.5) 8/27/2013	SS-WSA-25B(1.0-1.5) 8/27/2013	SS-YP-1B (1.5-2.0) 8/28/2013	SS-YP-2B (1.5-2.0) 8/28/2013	SS-YP-3B (3.5-4.0) 8/29/2013
PCBs									
Aroclor 1016	NS	NS	mg/kg	< 0.0098	< 0.0096	< 0.0096	< 0.01	< 0.0091	< 0.0096
Aroclor 1221	NS	NS	mg/kg	< 0.023	< 0.022	< 0.022	< 0.024	< 0.021	< 0.022
Aroclor 1232	NS	NS	mg/kg	< 0.019	< 0.019	< 0.019	< 0.02	< 0.018	< 0.019
Aroclor 1242	NS	NS	mg/kg	< 0.012	< 0.012	< 0.012	< 0.013	< 0.011	< 0.012
Aroclor 1248	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	< 0.012	< 0.011	< 0.011
Aroclor 1254	NS	NS	mg/kg	< 0.018	< 0.017	< 0.017	< 0.019	< 0.016	< 0.017
Aroclor 1260	NS	NS	mg/kg	< 0.012	< 0.012	< 0.012	< 0.013	< 0.011	< 0.012
Aroclor 1262	NS	NS	mg/kg	< 0.012	< 0.012	< 0.012	< 0.013	< 0.011	< 0.012
Aroclor 1268	NS	NS	mg/kg	< 0.011	< 0.011	< 0.011	< 0.012	< 0.01	< 0.011
Metals									
Aluminum	NS	NS	mg/kg	7960	8910	8150	11200	8450	16000 J
Antimony	NS	NS	mg/kg	1.4 J	1.9 B	3.5	0.85 B	1.2 B	0.3 B
Arsenic	16	16	mg/kg	6.3	8.6	6.2	3.8	3.1	5
Barium	400	820	mg/kg	81.5	72	128	69.2	23	118
Beryllium	72	47	mg/kg	1.5	1.5	1.5	0.68	0.5	0.72
Cadmium	4.3	7.5	mg/kg	0.43 B	0.53 B	0.39 B	< 0.084	< 0.074	< 0.083
Calcium	NS	NS	mg/kg	6520 J	38400	31700	2030	1270	5630
Chromium	NS	NS	mg/kg	22.4	19.8	21.3	19.6	18.2	45.3
Cobalt	NS	NS	mg/kg	8.8	7.5	8.9	8.5	6.8	6.8
Copper	270	1,720	mg/kg	52.4	50.7	46.5	62.8	74.1	33.7
Iron	NS	NS	mg/kg	28700 J	35600	26800	22700	22200	20300
Lead	400	450	mg/kg	140	128	193	64.5	131	89.7
Magnesium	NS	NS	mg/kg	3890	15800	4950	2560	3320	2780
Manganese	2,000	2,000	mg/kg	680	793	545	552	367	557
Mercury	0.81	0.73	mg/kg	0.14	0.13	0.07	0.51	0.011 B	0.24
Nickel	310	130	mg/kg	15.6	15.6	23.2	15.2	13.6	14
Potassium	NS	NS	mg/kg	1110	1180	2750	926 B	621 B	612 B
Selenium	180	4	mg/kg	0.59 B	< 0.29	1.6 B	1.2 B	1 B	< 0.3
Silver	180	8.3	mg/kg	0.25 B	0.12 B	1.2	< 0.12	< 0.1	0.52 B
Sodium	NS	NS	mg/kg	257 B	240 B	528 B	103 B	97.8 B	128 B
Thallium	NS	NS	mg/kg	< 0.33	< 0.32	< 0.35	0.78 B	< 0.3	< 0.34
Vanadium	NS	NS	mg/kg	44	32.1	40.1	28.8	27.8	33.4
Zinc	10,000	2,480	mg/kg	118	122	151	58.2	86.9	107
Other									
Solids, Percent	NS	NS	%	87.6	88.8	85.6	81.8	93.9	88.4

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater

Table 11. Summary of Post Excavation Analytical Results, Waste Storage Area, Operable Unit 1, Ramapo Pai

Sample ID	375-6.8(b)	375-6.8(b)		SS-YP-4B (3.5-4.0)
Sample Date	NYS Restricted	NYS Protection		8/30/2013
VOCS				
1,1,1-Trichloroethane	100	0.68	mg/kg	< 0.00011
1,1,2,2-Tetrachloroethane	NS	NS	mg/kg	< 0.00014
1,1,2-Trichloroethane	NS	NS	mg/kg	< 0.00019
1,1-Dichloroethane	26	0.27	mg/kg	< 0.00015
1,1-Dichloroethene	100	0.33	mg/kg	< 0.00027
1,2,4-Trichlorobenzene	NS	NS	mg/kg	< 0.00015
1,2-Dibromo-3-chloropropane	NS	NS	mg/kg	< 0.00095
1,2-Dibromoethane	NS	NS	mg/kg	< 0.00014
1,2-Dichlorobenzene	100	1.1	mg/kg	< 0.0002
1,2-Dichloroethane	3.1	0.02	mg/kg	< 0.00014
1,2-Dichloropropane	NS	NS	mg/kg	< 0.00016
1,3-Dichlorobenzene	49	2.4	mg/kg	< 0.0002
1,4-Dichlorobenzene	13	1.8	mg/kg	< 0.00019
2-Butanone (MEK)	100	0.12	mg/kg	< 0.0026
2-Hexanone	NS	NS	mg/kg	< 0.00066
4-Methyl-2-pentanone(MIBK)	NS	NS	mg/kg	< 0.0008
Acetone	100	0.05	mg/kg	< 0.0018
Benzene	4.8	0.06	mg/kg	< 0.00013
Bromodichloromethane	NS	NS	mg/kg	< 0.00011
Bromoform	NS	NS	mg/kg	< 0.00016
Bromomethane	NS	NS	mg/kg	< 0.00029
Carbon disulfide	NS	NS	mg/kg	< 0.00012
Carbon tetrachloride	2.4	0.76	mg/kg	< 0.00014
Chlorobenzene	100	1.1	mg/kg	< 0.00012
Chloroethane	NS	NS	mg/kg	< 0.00024
Chloroform	49	0.37	mg/kg	< 0.000088
Chloromethane	NS	NS	mg/kg	< 0.0002
cis-1,2-Dichloroethene	100	0.25	mg/kg	< 0.0002
cis-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00015
Cyclohexane	NS	NS	mg/kg	< 0.00013
Dibromochloromethane	NS	NS	mg/kg	< 0.00018
Dichlorodifluoromethane	NS	NS	mg/kg	< 0.00024
Ethylbenzene	41	1	mg/kg	< 0.00028
Freon 113	NS	NS	mg/kg	< 0.00046
Isopropylbenzene	NS	NS	mg/kg	< 0.000079
Methyl Acetate	NS	NS	mg/kg	< 0.0028
Methyl Tert Butyl Ether	100	0.93	mg/kg	< 0.00025
Methylcyclohexane	NS	NS	mg/kg	< 0.00018
Methylene chloride	100	0.05	mg/kg	0.0016 J
Styrene	NS	NS	mg/kg	< 0.000098
Tetrachloroethene	19	1.3	mg/kg	< 0.00018
Toluene	100	0.7	mg/kg	< 0.00011
trans-1,2-Dichloroethene	100	0.19	mg/kg	< 0.00025
trans-1,3-Dichloropropene	NS	NS	mg/kg	< 0.00017
Trichloroethene	21	0.47	mg/kg	< 0.00019
Trichlorofluoromethane	NS	NS	mg/kg	< 0.00032
Vinyl chloride	0.9	0.02	mg/kg	< 0.00015
Xylene (total)	100	1.6	mg/kg	< 0.00015
Total TIC, Volatile	NS	NS	mg/kg	0
SVOCs				
1,1'-Biphenyl	NS	NS	mg/kg	< 0.0039
2,4,5-Trichlorophenol	NS	NS	mg/kg	< 0.039
2,4,6-Trichlorophenol	NS	NS	mg/kg	< 0.031
2,4-Dichloropheno	NS	NS	mg/kg	< 0.054
2,4-Dimethylpheno	NS	NS	mg/kg	< 0.056

Table 11. Summary of Post Excavation Analytical Results, Waste Storage Area, Operable Unit 1, Ramapo Pai

Sample ID	375-6.8(b)	375-6.8(b)		SS-YP-4B (3.5-4.0)
Sample Date	NYS Restricted	NYS Protection		8/30/2013
SVOCs cont.				
2,4-Dinitropheno	NS	NS	mg/kg	< 0.041 J
2,4-Dinitrotoluene	NS	NS	mg/kg	< 0.015
2,6-Dinitrotoluene	NS	NS	mg/kg	< 0.013
2-Chloronaphthalene	NS	NS	mg/kg	< 0.01
2-Chloropheno	NS	NS	mg/kg	< 0.034
2-Methylnaphthalene	NS	NS	mg/kg	< 0.019
2-Methylpheno	100	0.33	mg/kg	< 0.038
2-Nitroaniline	NS	NS	mg/kg	< 0.015
2-Nitrophenol	NS	NS	mg/kg	< 0.035
3&4-Methylpheno	NS	NS	mg/kg	< 0.042
3,3'-Dichlorobenzidine	NS	NS	mg/kg	< 0.0085
3-Nitroaniline	NS	NS	mg/kg	< 0.013
4,6-Dinitro-o-cresol	NS	NS	mg/kg	< 0.041
4-Bromophenyl phenyl ether	NS	NS	mg/kg	< 0.012
4-Chloro-3-methyl pheno	NS	NS	mg/kg	< 0.033
4-Chloroaniline	NS	NS	mg/kg	< 0.011
4-Chlorophenyl phenyl ethe	NS	NS	mg/kg	< 0.01
4-Nitroaniline	NS	NS	mg/kg	< 0.013
4-Nitrophenol	NS	NS	mg/kg	< 0.056
Acenaphthene	100	98	mg/kg	< 0.0097
Acenaphthylene	100	107	mg/kg	< 0.011
Acetophenone	NS	NS	mg/kg	< 0.0059
Anthracene	100	1,000	mg/kg	< 0.012
Atrazine	NS	NS	mg/kg	< 0.0066
Benzaldehyde	NS	NS	mg/kg	< 0.0077
Benzo(a)anthracene	1	1	mg/kg	< 0.011
Benzo(a)pyrene	1	22	mg/kg	< 0.01
Benzo(b)fluoranthene	1	1.7	mg/kg	< 0.011
Benzo(g,h,i)perylene	100	1,000	mg/kg	< 0.012
Benzo(k)fluoranthene	3.9	1.7	mg/kg	< 0.013
bis(2-Chloroethoxy)methane	NS	NS	mg/kg	< 0.013
bis(2-Chloroethyl)ether	NS	NS	mg/kg	< 0.01
bis(2-Chloroisopropyl)ether	NS	NS	mg/kg	< 0.0099
bis(2-Ethylhexyl)phthalate	NS	NS	mg/kg	< 0.029
Butyl benzyl phthalate	NS	NS	mg/kg	< 0.019
Caprolactam	NS	NS	mg/kg	< 0.01
Carbazole	NS	NS	mg/kg	< 0.015
Chrysene	3.9	1	mg/kg	< 0.011
Dibenzo(a,h)anthracene	0.33	1,000	mg/kg	< 0.011
Dibenzofuran	59	210	mg/kg	< 0.0099
Diethyl phthalate	NS	NS	mg/kg	< 0.011
Dimethyl phthalate	NS	NS	mg/kg	< 0.012
Di-n-butyl phthalate	NS	NS	mg/kg	< 0.0074
Di-n-octyl phthalate	NS	NS	mg/kg	< 0.016
Fluoranthene	100	1,000	mg/kg	< 0.015
Fluorene	100	386	mg/kg	< 0.011
Hexachlorobenzene	1.2	3.2	mg/kg	< 0.011
Hexachlorobutadiene	NS	NS	mg/kg	< 0.0093
Hexachlorocyclopentadiene	NS	NS	mg/kg	< 0.034
Hexachloroethane	NS	NS	mg/kg	< 0.0093
Indeno(1,2,3-cd)pyrene	0.5	8.2	mg/kg	< 0.012
Isophorone	NS	NS	mg/kg	< 0.009
Naphthalene	100	12	mg/kg	< 0.0091
Nitrobenzene	NS	NS	mg/kg	< 0.0096
N-Nitroso-di-n-propylamine	NS	NS	mg/kg	< 0.0081
N-Nitrosodiphenylamine	NS	NS	mg/kg	< 0.02
Pentachlorophenol	6.7	0.8	mg/kg	< 0.057
Phenanthrene	100	1,000	mg/kg	< 0.015
Phenol	100	0.33	mg/kg	< 0.035
Pyrene	100	1,000	mg/kg	< 0.013
Total TIC, Semi-Volatile	NS	NS	mg/kg	1.55 JN

Table 11. Summary of Post Excavation Analytical Results, Waste Storage Area, Operable Unit 1, Ramapo Pai

Sample ID	375-6.8(b)	375-6.8(b)		SS-YP-4B (3.5-4.0)
Sample Date	NYS Restricted	NYS Protection		8/30/2013
PCBs				
Aroclor 1016	NS	NS	mg/kg	< 0.0096
Aroclor 1221	NS	NS	mg/kg	< 0.022
Aroclor 1232	NS	NS	mg/kg	< 0.019
Aroclor 1242	NS	NS	mg/kg	< 0.012
Aroclor 1248	NS	NS	mg/kg	< 0.011
Aroclor 1254	NS	NS	mg/kg	< 0.017
Aroclor 1260	NS	NS	mg/kg	< 0.012
Aroclor 1262	NS	NS	mg/kg	< 0.012
Aroclor 1268	NS	NS	mg/kg	< 0.011
Metals				
Aluminum	NS	NS	mg/kg	18700 J
Antimony	NS	NS	mg/kg	0.6 B
Arsenic	16	16	mg/kg	6.4
Barium	400	820	mg/kg	84.6
Beryllium	72	47	mg/kg	0.86
Cadmium	4.3	7.5	mg/kg	< 0.082
Calcium	NS	NS	mg/kg	1730
Chromium	NS	NS	mg/kg	30.7
Cobalt	NS	NS	mg/kg	7.6
Copper	270	1,720	mg/kg	22.8
Iron	NS	NS	mg/kg	24800
Lead	400	450	mg/kg	41.1
Magnesium	NS	NS	mg/kg	3470
Manganese	2,000	2,000	mg/kg	360
Mercury	0.81	0.73	mg/kg	0.098
Nickel	310	130	mg/kg	18
Potassium	NS	NS	mg/kg	578 B
Selenium	180	4	mg/kg	0.5 B
Silver	180	8.3	mg/kg	< 0.12
Sodium	NS	NS	mg/kg	136 B
Thallium	NS	NS	mg/kg	0.6 B
Vanadium	NS	NS	mg/kg	40.7
Zinc	10,000	2,480	mg/kg	78.3
Other				
Solids, Percent	NS	NS	%	85.1

Notes:

mg/kg	Milligrams per kilogram
<	Not Detected
NA	Not Analyzed
UB	Result non-detected at the listed value due to associated blank contamination.
B	Result is between the method detection limit and the reporting limit.
J or JN	Estimated Result
R	Rejected Result
Shade	Result exceeds the 375-6.8(b) restricted residential use
Bold	Result exceeds the 375-6.8(b) protection of groundwater
Bold and Shade	Result exceeds both 375-6.8(b) restricted residential use and protection of groundwater

Table 12. Summary of Waste Classification Analytical Results, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID Sample Date		WC(022113) 2/21/2013	WC (022613) 2/26/2013	WC (022813) 2/28/2013	WC(030813)-BIN3 3/8/2013	WC (031313)-BIN 3 (2) 3/13/2013	WC (031813) - BIN 1 (2) 3/18/2013	WC (031813) - BIN 4 (2) 3/18/2013	WC(032613)A 3/26/2013	WC(032613)B 3/26/2013	WC (040113) - 1 4/1/2013	WC (040213) 4/2/2013
VOCs												
1,1,1-Trichloroethane	mg/kg	< 0.0001	< 0.03	< 0.0056	< 0.00011	< 0.0071	< 0.0065	< 0.0073	< 0.0061	< 0.000098	< 0.0059	< 0.006
1,1,2,2-Tetrachloroethane	mg/kg	< 0.00013	< 0.037	< 0.007	< 0.00013	< 0.0088	< 0.0081	< 0.0091	< 0.0076	< 0.00012	< 0.0073	< 0.0075
1,1,2-Trichloroethane	mg/kg	< 0.00017	< 0.049	< 0.0093	< 0.00018	< 0.012	< 0.011	< 0.012	< 0.01	< 0.00016	< 0.0097	< 0.0098
1,1-Dichloroethane	mg/kg	< 0.00014	< 0.039	< 0.0073	< 0.00014	< 0.0091	< 0.0084	< 0.0095	< 0.0079	< 0.00013	< 0.0076	< 0.0077
1,1-Dichloroethene	mg/kg	< 0.00025	< 0.073	< 0.014	< 0.00026	< 0.017	< 0.016	< 0.018	< 0.015	< 0.00024	< 0.014	< 0.015
1,2,3-TRICHLOROBENZENE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	< 0.00014	< 0.039	< 0.0074	< 0.00014	< 0.0093	< 0.0085	< 0.0096	< 0.008	< 0.00013	< 0.0077	< 0.0079
1,2-Dibromo-3-chloropropane	mg/kg	< 0.00088	< 0.25	< 0.047 J	< 0.00091	< 0.059	< 0.054	< 0.061	< 0.051	< 0.00082	< 0.049	< 0.05
1,2-Dibromoethane	mg/kg	< 0.00013	< 0.036	< 0.0068	< 0.00013	< 0.0085	< 0.0078	< 0.0088	< 0.0073	< 0.00012	< 0.0071	< 0.0072
1,2-Dichlorobenzene	mg/kg	< 0.00019	< 0.054	< 0.01	< 0.00019	< 0.013	< 0.012	< 0.013	< 0.011	< 0.00017	< 0.01	< 0.011
1,2-Dichloroethane	mg/kg	< 0.00013	< 0.038	< 0.0072	< 0.00014	< 0.009	< 0.0082	< 0.0093	< 0.0077	< 0.00012	< 0.0075	< 0.0076
1,2-Dichloropropane	mg/kg	< 0.00015	< 0.044	< 0.0082	< 0.00016	< 0.01	< 0.0094	< 0.011	< 0.0088	< 0.00014	< 0.0086	< 0.0087
1,3-Dichlorobenzene	mg/kg	< 0.00018	< 0.053	< 0.0099	< 0.00019	< 0.012	< 0.011	< 0.013	< 0.011	< 0.00017	< 0.01	< 0.011
1,4-Dichlorobenzene	mg/kg	< 0.00017	< 0.05	< 0.0094	< 0.00018	< 0.012	< 0.011	< 0.012	< 0.01	< 0.00016	< 0.0098	< 0.01
1,4-Dioxane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (MEK)	mg/kg	< 0.0024	< 0.68 J	0.237 J	0.0316	< 0.16	< 0.15	< 0.16	< 0.14	< 0.0022	< 0.13	< 0.14
2-Hexanone	mg/kg	< 0.00061	< 0.18	< 0.033	< 0.00063	< 0.041	< 0.038	< 0.043	< 0.036	< 0.00057	< 0.035	< 0.035
4-Methyl-2-pentanone(MIBK)	mg/kg	< 0.00074	< 0.21	0.128 J	0.182	1.09	< 0.046	0.0908 J	1.92	< 0.00069	< 0.042	< 0.042
Acetone	mg/kg	< 0.0017	< 0.48	< 0.09	0.313 E	< 0.11	< 0.1	< 0.12	1.1	< 0.0016	< 0.094	< 0.096
Benzene	mg/kg	< 0.00012	< 0.034	0.0654	0.0037	0.176	< 0.0073	< 0.0082	0.078	< 0.00011	< 0.0066	< 0.0067
Bromodichloromethane	mg/kg	< 0.0001	< 0.03	< 0.0056	< 0.00011	< 0.007	< 0.0064	< 0.0072	< 0.006	< 0.000097	< 0.0058	< 0.0059
Bromoform	mg/kg	< 0.00015	< 0.043	< 0.01	< 0.00015	< 0.008	< 0.0092	< 0.01	< 0.0087	< 0.00014	< 0.0084	< 0.0085
Bromomethane	mg/kg	< 0.00027	< 0.078	< 0.015	< 0.00028	< 0.018	< 0.017	< 0.019	< 0.016	< 0.00025	< 0.015	< 0.015
Carbon disulfide	mg/kg	< 0.00012	< 0.033	< 0.0062	< 0.00012	< 0.0078	< 0.0071	< 0.0081	< 0.0067	< 0.00011	< 0.0065	< 0.0066
Carbon tetrachloride	mg/kg	< 0.00013	< 0.038	< 0.0071	< 0.00014	< 0.0089	< 0.0081	< 0.0092	< 0.0076	< 0.00012	< 0.0074	< 0.0075
Chlorobenzene	mg/kg	< 0.00011	< 0.031	< 0.0057	< 0.00011	< 0.0072	< 0.0066	< 0.0074	< 0.0062	< 0.0001	< 0.006	< 0.0061
CHLOROBROMOMETHANE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	< 0.00022	< 0.064	< 0.012	< 0.00023	< 0.015	< 0.014	< 0.016	< 0.013	< 0.00021	< 0.013	< 0.013
Chloroform	mg/kg	< 0.000082	< 0.023	< 0.0044	< 0.000084	< 0.0055	< 0.005	< 0.0057	< 0.0047	< 0.000076	< 0.0046	< 0.0047
Chloromethane	mg/kg	< 0.00018	< 0.053	< 0.0099 J	< 0.00019	< 0.012	< 0.011	< 0.013	< 0.011	< 0.00017	< 0.01	< 0.011
cis-1,2-Dichloroethene	mg/kg	< 0.00018	< 0.052	< 0.0097	< 0.00019	< 0.012	< 0.011	< 0.013	< 0.01	< 0.00017	< 0.01	< 0.01
cis-1,3-Dichloropropene	mg/kg	< 0.00014	< 0.039	< 0.0074	< 0.00014	< 0.0093	< 0.0085	< 0.0096	< 0.008	< 0.00013	< 0.0077	< 0.0079
Cyclohexane	mg/kg	< 0.00012	< 0.035	0.0927 J	0.0026 J	0.536	< 0.0076	< 0.0086	0.214 J	< 0.00011	< 0.0069	< 0.007
Dibromochloromethane	mg/kg	< 0.00016	< 0.047	< 0.0087	< 0.00017	< 0.011	< 0.01	< 0.011	< 0.0094	< 0.00015	< 0.0091	< 0.0093
Dichlorodifluoromethane	mg/kg	< 0.00023	< 0.065	< 0.012	< 0.00023	< 0.015	< 0.014	< 0.016	< 0.013	< 0.00021	< 0.013	< 0.013
Ethylbenzene	mg/kg	0.0017	20.3	13.9 D	17	122	1.92	2.19	78.5	0.0406	1.88	3.42
Freon 113	mg/kg	< 0.00043	< 0.12 J	< 0.023	< 0.00044	< 0.029	< 0.026	< 0.03	< 0.025	< 0.0004	< 0.024	< 0.024
Isopropylbenzene	mg/kg	0.00036 J	5.53	2.6	0.121	12.7	0.483	0.439	5.59	0.0047	0.431	0.864
Methyl Acetate	mg/kg	< 0.0026	< 0.74	< 0.14 J	< 0.0026	< 0.17	< 0.16	< 0.18	0.258 J	< 0.0024	< 0.14	< 0.15
Methyl Tert Butyl Ether	mg/kg	< 0.00023	< 0.067	< 0.013	< 0.00024	< 0.016	< 0.014	< 0.016	< 0.013	< 0.00022	< 0.013	< 0.013
Methylcyclohexane	mg/kg	< 0.00017	1.03 J	0.48	0.0153	3.26	0.0419 J	0.073 J	1.33	0.00039 J	0.067 J	0.132 J
Methylene chloride	mg/kg	< 0.0013	< 0.36	< 0.068	< 0.0013	< 0.085	< 0.078	< 0.088	< 0.073	< 0.0012	< 0.071	< 0.072
Styrene	mg/kg	< 0.000091	< 0.026	< 0.0049	< 0.000093	< 0.0061	< 0.0056	< 0.0063	< 0.0053	< 0.000085	< 0.0051	< 0.0052
Tetrachloroethene	mg/kg	< 0.00017	< 0.049	< 0.0092	< 0.00018	< 0.011	< 0.011	< 0.012	< 0.0099	< 0.00016	< 0.0096	< 0.0097
Toluene	mg/kg	0.00045 J	13.8	6.11	7.98	95.2	0.598	0.689	40.2	0.0174	1.25	1.6
trans-1,2-Dichloroethene	mg/kg	< 0.00024	< 0.068	< 0.013	< 0.00024	< 0.016	< 0.015	< 0.016	< 0.014	< 0.00022	< 0.013	< 0.013
trans-1,3-Dichloropropene	mg/kg	< 0.00015	< 0.044	< 0.0082	< 0.00016	< 0.01	< 0.0095	< 0.011	< 0.0089	< 0.00014	< 0.0086	< 0.0088
Trichloroethene	mg/kg	< 0.00017	< 0.049	< 0.0093	< 0.00018	< 0.012	< 0.011	< 0.012	< 0.01	< 0.00016	< 0.0097	< 0.0098
Trichlorofluoromethane	mg/kg	< 0.00029	< 0.085	< 0.016	< 0.0003	< 0.02	< 0.018	< 0.021	< 0.017	< 0.00028	< 0.017	< 0.017
Vinyl chloride	mg/kg	< 0.00014	< 0.041	< 0.0077	< 0.00015	< 0.0096	< 0.0088	< 0.0099	< 0.0083	< 0.00013	< 0.008	< 0.0081
m,p-Xylene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene (total)	mg/kg	0.0152	151	101 D	118	600	13.6	15.8	437	0.252	13.2	25.5
Total TIC, Volatile	mg/kg	0	91.3 JN	141 JN	0.971 J	101 J	61.7 J	46.3 J	68.5 J	0.0882 J	27.7 J	57.4 J
VOCs-Leachate												
1,1-Dichloroethene	mg/l	< 0.00096	NA	NA	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096
1,2-Dichloroethane	mg/l	< 0.0013	NA	NA	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
1,4-Dichlorobenzene	mg/l	< 0.0015	NA	NA	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
2-Butanone (MEK)	mg/l	< 0.012 J	NA	NA	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Benzene	mg/l	< 0.0012	NA	NA	< 0.0012	0.008	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Carbon tetrachloride	mg/l	< 0.0011	NA	NA	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Chlorobenzene	mg/l	< 0.0011	NA	NA	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Chloroform	mg/l	< 0.001	NA	NA	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethene	mg/l	< 0.0014	NA	NA	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
Trichloroethene	mg/l	< 0.0011	NA	NA	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Vinyl chloride	mg/l	< 0.001	NA	NA	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

Table 12. Summary of Waste Classification Analytical Results, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID		WC(022113) 2/21/2013	WC (022613) 2/26/2013	WC (022813) 2/28/2013	WC(030813)-BIN3 3/8/2013	WC (031313)-BIN 3 (2) 3/13/2013	WC (031813) - BIN 1 (2) 3/18/2013	WC (031813) - BIN 4 (2) 3/18/2013	WC(032613)A 3/26/2013	WC(032613)B 3/26/2013	WC (040113) - 1 4/1/2013	WC (040213) 4/2/2013
Sample Date												
SVOCs												
1,1'-Biphenyl	mg/kg	< 0.0042	0.25	0.27	0.0363 J	< 0.023	0.0559 J	0.0762 J	0.0867 J	< 0.0075	0.0222 J	0.0534 J
1,2,4,5-TETRACHLOROBENZENE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	< 0.042	< 0.086	< 0.039	< 0.048	< 0.23	< 0.041	< 0.08	< 0.085	< 0.075	< 0.038	< 0.038
2,4,6-Trichlorophenol	mg/kg	< 0.034	< 0.07	< 0.031	< 0.039	< 0.19	< 0.033	< 0.065	< 0.069	< 0.061	< 0.031	< 0.031
2,4-Dichlorophenol	mg/kg	< 0.058	< 0.12	< 0.054 J	< 0.066	< 0.32	< 0.056	< 0.11	< 0.12	< 0.1	< 0.053	< 0.053
2,4-Dimethylphenol	mg/kg	< 0.061	< 0.12	< 0.056	< 0.069	< 0.34	< 0.059	< 0.12	< 0.12	< 0.11	< 0.055	< 0.055
2,4-Dinitrophenol	mg/kg	< 0.044	R	< 0.041	< 0.05	< 0.25	< 0.043	< 0.084	< 0.089	< 0.079	< 0.04	< 0.04
2,4-Dinitrotoluene	mg/kg	< 0.016	< 0.032	< 0.015	< 0.018	< 0.088	< 0.015	< 0.03	< 0.032	< 0.028	< 0.014	< 0.014
2,6-Dinitrotoluene	mg/kg	< 0.014	< 0.028	< 0.013	< 0.016	< 0.077	< 0.013	< 0.026	< 0.028	< 0.025	< 0.012	< 0.013
2-Chloronaphthalene	mg/kg	< 0.011	< 0.023	< 0.01	< 0.013	< 0.062	< 0.011	< 0.021	< 0.023	< 0.02	< 0.01	< 0.01
2-Chlorophenol	mg/kg	< 0.037	< 0.075	< 0.034	< 0.041	< 0.2	< 0.035	< 0.07	< 0.074	< 0.065	< 0.033	< 0.033
2-Methylnaphthalene	mg/kg	< 0.02	3.51	6.98 D	1.07	6.74	1	3.36	2.22	0.0483 J	0.293	1.02
2-Methylphenol	mg/kg	< 0.041	< 0.085	< 0.038	< 0.047	< 0.23	< 0.04	< 0.079	< 0.083	< 0.074	< 0.037	< 0.038
2-Nitroaniline	mg/kg	< 0.016	< 0.033 J	< 0.015	< 0.018	< 0.088	< 0.015	< 0.03	< 0.032	< 0.029	< 0.014	< 0.014
2-Nitrophenol	mg/kg	< 0.038	< 0.079	< 0.035	< 0.043	< 0.21	< 0.037	< 0.073	< 0.078	< 0.069	< 0.035	< 0.035
3&4-Methylphenol	mg/kg	< 0.046	< 0.094	< 0.042	< 0.052	< 0.26	< 0.044	< 0.088	< 0.093	< 0.082	< 0.042	< 0.042
3,3'-Dichlorobenzidine	mg/kg	< 0.0092	< 0.019 J	< 0.0085	< 0.01	< 0.051	< 0.0089	< 0.018	< 0.019	< 0.016	< 0.0083	< 0.0084
3-Nitroaniline	mg/kg	< 0.015	< 0.03	< 0.013 J	< 0.016	< 0.08	< 0.014	< 0.028	< 0.029	< 0.026	< 0.013	< 0.013
4,6-Dinitro-o-cresol	mg/kg	< 0.044	< 0.091	< 0.041	< 0.05	< 0.25	< 0.043	< 0.084	< 0.089	< 0.079	< 0.04	< 0.04
4-Bromophenyl phenyl ether	mg/kg	< 0.013	< 0.027	< 0.012	< 0.015	< 0.073	< 0.013	< 0.025	< 0.027	< 0.024	< 0.012	< 0.012
4-Chloro-3-methyl phenol	mg/kg	< 0.036	< 0.074	< 0.033	< 0.041	< 0.2	< 0.035	< 0.069	< 0.073	< 0.065	< 0.033	< 0.033
4-Chloroaniline	mg/kg	< 0.012	< 0.024	< 0.011	< 0.013	< 0.064	< 0.011	< 0.022	< 0.023	< 0.021	< 0.01	< 0.011
4-Chlorophenyl phenyl ether	mg/kg	< 0.011	< 0.022	< 0.01	< 0.012	< 0.061	< 0.011	< 0.021	< 0.022	< 0.02	< 0.0098	< 0.0099
4-Nitroaniline	mg/kg	< 0.014	< 0.029	< 0.013	< 0.016	< 0.078	< 0.014	< 0.027	< 0.029	< 0.025	< 0.013	< 0.013
4-Nitrophenol	mg/kg	< 0.061	< 0.13 J	< 0.056 J	< 0.069	< 0.34	< 0.059	< 0.12	< 0.12	< 0.11	< 0.055	< 0.056
Acenaphthene	mg/kg	< 0.011	0.0526 J	0.0845	< 0.012	< 0.058	< 0.01	< 0.02	0.0777	< 0.019	< 0.0095	< 0.0096
Acenaphthylene	mg/kg	< 0.012	< 0.024	< 0.011	< 0.013	< 0.064	< 0.011	< 0.022	0.0621 J	< 0.021	< 0.01	< 0.011
Acetophenone	mg/kg	< 0.0064	< 0.013	< 0.0059	< 0.0072	< 0.035	< 0.0061	< 0.012	< 0.013	< 0.011	< 0.0058	< 0.0058
Anthracene	mg/kg	< 0.013	< 0.026	0.0521	0.023 J	< 0.07	< 0.012	< 0.024	0.2	< 0.023	< 0.011	< 0.012
Atrazine	mg/kg	< 0.0071	< 0.015	< 0.0066	< 0.0081	< 0.04	< 0.0069	< 0.014	< 0.014	< 0.013	< 0.0064	< 0.0065
Benzaldehyde	mg/kg	< 0.0083	< 0.017	< 0.0077	< 0.0094	< 0.046	< 0.008	< 0.016	< 0.017	< 0.015	< 0.0075	< 0.0076
Benzo(a)anthracene	mg/kg	0.0502	0.0466 J	0.0481	0.0684	< 0.066	0.0318 J	< 0.023	0.416	0.092	< 0.011	0.0278 J
Benzo(a)pyrene	mg/kg	0.0536	0.033 J	0.0407	0.0532	< 0.061	0.0281 J	< 0.021	0.316	0.0724	< 0.01	0.0215 J
Benzo(b)fluoranthene	mg/kg	0.058	0.0335 J	0.0369	0.0499	< 0.067	0.0379	< 0.023	0.382	0.0839	< 0.011	0.0208 J
Benzo(g,h,i)perylene	mg/kg	0.0338 J	< 0.028	0.048	0.0367 J	< 0.075	0.0189 J	< 0.026	0.236	0.0537 J	< 0.012	0.0197 J
Benzo(k)fluoranthene	mg/kg	0.0477	0.0386 J	0.0333	0.0412	< 0.076	< 0.013	< 0.026	0.213	0.0509 J	< 0.012	0.0157 J
bis(2-Chloroethoxy)methane	mg/kg	< 0.015	< 0.03	< 0.013	< 0.017	< 0.081	< 0.014	< 0.028	< 0.03	< 0.026	< 0.013	< 0.013
bis(2-Chloroethyl)ether	mg/kg	< 0.011	< 0.022	< 0.01	< 0.012	< 0.061	< 0.011	< 0.021	< 0.022	< 0.02	< 0.0098	< 0.0099
bis(2-Chloroisopropyl)ether	mg/kg	< 0.011	< 0.022	< 0.0099	< 0.012	< 0.06	< 0.01	< 0.021	< 0.022	< 0.019	< 0.0097	< 0.0098
bis(2-Ethylhexyl)phthalate	mg/kg	0.138	1.29	3.86 D	3.47	6.08	0.89	1.47	17.1	0.156	0.223	1.81
Butyl benzyl phthalate	mg/kg	< 0.021	< 0.043	< 0.019	< 0.024	< 0.12	< 0.02	< 0.04	< 0.042	< 0.038	< 0.019	< 0.019
Caprolactam	mg/kg	< 0.011	< 0.023	< 0.011 J	< 0.013	< 0.063	< 0.011	< 0.022	< 0.023	< 0.02	< 0.01	< 0.01
Carbazole	mg/kg	< 0.017	< 0.034	0.0288 J	< 0.019	< 0.093	< 0.016	< 0.032	0.165	< 0.03	< 0.015	< 0.015
CHLOROPHENOLS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	0.0622	0.0575 J	0.0627	0.0873	< 0.068	0.0355	< 0.023	0.486	0.0913	< 0.011	0.0401
Dibenzo(a,h)anthracene	mg/kg	< 0.012	< 0.025	0.0442	< 0.014	< 0.069	< 0.012	< 0.024	0.0783	< 0.022	< 0.011	< 0.011
Dibenzofuran	mg/kg	< 0.011	0.0402 J	0.0639 J	< 0.012	< 0.06	< 0.01	< 0.021	< 0.022	< 0.019	< 0.0097	< 0.0098
Diethyl phthalate	mg/kg	< 0.012	< 0.025	< 0.011	< 0.014	< 0.069	< 0.012	< 0.024	< 0.025	< 0.022	< 0.011	< 0.011
Dimethyl phthalate	mg/kg	0.0651 J	< 0.026	0.0888	0.0722 J	< 0.071	0.0505 J	< 0.024	0.089 J	0.0653 J	< 0.012	< 0.012
Di-n-butyl phthalate	mg/kg	< 0.0081	0.149 J	0.204	0.125	< 0.045	< 0.0078	0.107 J	0.871	< 0.014	< 0.0073	0.0695
Di-n-octyl phthalate	mg/kg	< 0.018	< 0.036	0.0484 J	< 0.02	< 0.098	< 0.017	< 0.034	< 0.036	< 0.032	< 0.016	< 0.016
Fluoranthene	mg/kg	0.099	0.0926	0.067	0.125	< 0.089	0.0564	0.0505 J	1.09	0.161	0.0289 J	0.055
Fluorene	mg/kg	< 0.012	0.046 J	0.0919	< 0.013	< 0.066	< 0.011	< 0.023	0.125	< 0.021	< 0.011	< 0.011
Hexachlorobenzene	mg/kg	< 0.012	< 0.024	< 0.011	< 0.013	< 0.066	< 0.011	< 0.023	< 0.024	< 0.021	< 0.011	< 0.011
Hexachlorobutadiene	mg/kg	< 0.01	< 0.021	< 0.0093	< 0.011	< 0.056	< 0.0097	< 0.019	< 0.02	< 0.018	< 0.0091	< 0.0092
Hexachlorocyclopentadiene	mg/kg	< 0.037	R	< 0.034 J	< 0.042	< 0.21	< 0.036	< 0.071	< 0.075	< 0.066	< 0.033	< 0.034
Hexachloroethane	mg/kg	< 0.01	< 0.021	< 0.0093	< 0.011	< 0.056	< 0.0097	< 0.019	< 0.02	< 0.018	< 0.0091	< 0.0092
Indeno(1,2,3-cd)pyrene	mg/kg	0.0264 J	< 0.026	0.0473	0.0305 J	< 0.07	0.0172 J	< 0.024	0.192	0.0519 J	< 0.011	0.0146 J
Isophorone	mg/kg	< 0.0098	< 0.02	< 0.009	< 0.011	< 0.054	< 0.0094	< 0.019	< 0.02	< 0.017	< 0.0088	< 0.0089
Naphthalene	mg/kg	0.0246 J	13.4	18.8 D	3.42	25.3	8.22	11.8	0.239	0.836	4.03	4.03
Nitrobenzene	mg/kg	< 0.01	< 0.021	< 0.0096	< 0.012	< 0.058	< 0.01	< 0.02	< 0.021	< 0.019	< 0.0094	< 0.0095
N-Nitroso-di-n-propylamine	mg/kg	< 0.0089	< 0.018	< 0.0081	< 0.01	< 0.049	< 0.0085	< 0.017	< 0.018	< 0.016	< 0.008	< 0.008
N-Nitrosodiphenylamine	mg/kg	< 0.022	< 0.044	< 0.02	< 0.024	< 0.12	< 0.021	< 0.041	0.382	< 0.039	< 0.02	< 0.02

Table 12. Summary of Waste Classification Analytical Results, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Sample ID		WC(022113) 2/21/2013	WC (022613) 2/26/2013	WC (022813) 2/28/2013	WC(030813)-BIN3 3/8/2013	WC (031313)-BIN 3 (2) 3/13/2013	WC (031813) - BIN 1 (2) 3/18/2013	WC (031813) - BIN 4 (2) 3/18/2013	WC(032613)A 3/26/2013	WC(032613)B 3/26/2013	WC (040113) - 1 4/1/2013	WC (040213) 4/2/2013
Sample Date												
SVOCs cont.												
Pentachlorophenol	mg/kg	< 0.062	< 0.13	< 0.057 J	< 0.07	< 0.34	< 0.06	< 0.12	0.344 J	< 0.11	< 0.056	< 0.056
Phenanthrene	mg/kg	0.0484	0.125 J	0.175	0.0989	0.142 J	0.0499	0.0645 J	1.06	0.0748	0.033	0.061
Phenol	mg/kg	< 0.038	< 0.078	< 0.035	0.0747 J	< 0.21	< 0.037	< 0.073	< 0.077	< 0.068	< 0.034	< 0.035
Pyrene	mg/kg	0.0873	0.103 J	0.0982	0.138	< 0.077	0.0461	0.0428 J	0.633	0.118	0.0323 J	0.066
PYRIDINE	mg/kg	< 0.015	< 0.03 J	< 0.013 J	NA	NA	NA	NA	NA	NA	NA	NA
Total TIC, Semi-Volatile	mg/kg	0.4 J	400 JN	181 JN	144 J	501 J	78.7 J	173 J	216 J	16 J	36.5 J	113 J
SVOCs-Leachate												
1,4-Dichlorobenzene	mg/l	< 0.0036	NA	NA	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036
2,4,5-Trichlorophenol	mg/l	< 0.016	NA	NA	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
2,4,6-Trichlorophenol	mg/l	< 0.013	NA	NA	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,4-Dinitrotoluene	mg/l	< 0.0043	NA	NA	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043
2-Methylphenol	mg/l	< 0.01	NA	NA	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
3&4-Methylphenol	mg/l	< 0.0093	NA	NA	< 0.0093	< 0.0093	< 0.0093	< 0.0093	0.0109 J	< 0.0093	< 0.0093	< 0.0093
Hexachlorobenzene	mg/l	< 0.0034	NA	NA	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034
Hexachlorobutadiene	mg/l	< 0.0051	NA	NA	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051
Hexachloroethane	mg/l	< 0.0055	NA	NA	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055
Nitrobenzene	mg/l	< 0.0042	NA	NA	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042
Pentachlorophenol	mg/l	< 0.014	NA	NA	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
PYRIDINE	mg/l	< 0.0032	NA	NA	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032
PCBs												
Aroclor 1016	mg/kg	< 0.0097	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	mg/kg	< 0.023	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	mg/kg	< 0.019	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	mg/kg	< 0.012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	mg/kg	< 0.011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	mg/kg	< 0.018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	mg/kg	< 0.012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals-Leachate												
Arsenic	mg/l	< 0.00097	0.016	0.017 B	0.011 B	0.016 B	< 0.00097	0.004 B	0.015 B	< 0.00097	0.0093 B	0.014 B
Barium	mg/l	2.2	2.8	3.7	3.2	2.7	2.5	2.7	2	1.1	1.7	2
Cadmium	mg/l	0.003 B	0.0053	0.0093	0.0088	0.0055	0.0029 B	0.0051	0.018	0.0036 B	0.0032 B	0.0054
Chromium	mg/l	0.002 B	0.0067	0.017	0.0041 B	0.0049 B	0.003 B	0.0087 B	0.0065 B	0.002 B	0.0045 B	0.0065 B
Lead	mg/l	1.9	110	80	41.9	101	1.7	8.4	139	0.65	14.1	33.6
Mercury	mg/l	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095	< 0.000095
Selenium	mg/l	0.0075 B	0.01	< 0.0024	0.0059 B	< 0.0024	0.0062 B	0.0036 B	< 0.0024	0.0033 B	0.0025 B	0.0061 B
Silver	mg/l	< 0.00085	< 0.00085	0.0025 B	< 0.00085	0.0019 B	< 0.00085	< 0.00085	0.0016 B	< 0.00085	< 0.00085	< 0.00085
Other												
Cyanide Reactivity	mg/kg	< 11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heat Content, BTU	BTU/lb	885	597	777	200	730	< 100	< 100	486	456	< 100	296
Ignitability (Flashpoint)	Deg F	>200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS ABOVE C-10	mg/kg	102	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	su	6.87	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide Reactivity	mg/kg	< 110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids, Percent	%	87.2	86.5	84.6	78	79.2	85.2	85.8	88.2	91.8	86.2	86.7
TOTAL ORGANIC HALIDES (TOX)	mg/kg	< 23	< 23	< 24	< 26	< 25	< 24	< 23	< 23	< 22	< 23	< 23

- Notes:
- mg/kg

NA

<

B

D

E

J

R

Bold

Milligrams per kilogram

Not Analyzed

Not detected

Result is between the method detection limit and the reporting limit.

Result is based on a diluted sample analysis.

Result exceeds calibration range

Estimated Result

Rejected Result

Detection

Table 12. Summary of Waste Classification Analytical Results, Operabl

Sample ID		WC (040313) - BIN 1	WC (040413)	WC (040813) - 2	WC (040813) - 3	WC (040813) - BIN 1	WC (041013)	WC (041513)	WC (041613)	WC (041713)-BIN 3	WC(041813)BIN 4	WC(041813)BIN 5	WC (041913)-BIN 4	WC (041913)-BIN 6
Sample Date		4/3/2013	4/4/2013	4/8/2013	4/8/2013	4/8/2013	4/10/2013	4/15/2013	4/16/2013	4/17/2013	4/18/2013	4/18/2013	4/19/2013	4/19/2013
SVOCS														
1,1'-Biphenyl	mg/kg	< 0.0044	0.0228 J	< 0.0044	< 0.0045	0.22	< 0.0043	0.752	0.0519 J	0.0907	0.172 J	< 0.0046	0.26 J	< 0.0044
1,2,4,5-TETRACHLOROBENZENE	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.011	< 0.011	< 0.11	< 0.012	< 0.054	< 0.012
2,4,5-Trichlorophenol	mg/kg	< 0.044	< 0.042	< 0.044	< 0.045	< 0.038	< 0.043	< 0.24	< 0.043	< 0.043	< 0.41	< 0.046	< 0.21	< 0.044
2,4,6-Trichlorophenol	mg/kg	< 0.035	< 0.034	< 0.035	< 0.037	< 0.031	< 0.035	< 0.2	< 0.034	< 0.035	< 0.33	< 0.037	< 0.17	< 0.035
2,4-Dichlorophenol	mg/kg	< 0.06	< 0.058	< 0.06	< 0.063	< 0.053	< 0.059	< 0.34	< 0.059	< 0.059	< 0.57	< 0.064	< 0.28	< 0.061
2,4-Dimethylphenol	mg/kg	< 0.063	< 0.06	< 0.063	< 0.066	< 0.056	0.234	< 0.35	< 0.062	< 0.062	< 0.59	< 0.066	< 0.3	< 0.063
2,4-Dinitrophenol	mg/kg	< 0.046	< 0.044	< 0.046	< 0.048	< 0.04	< 0.045	< 0.25	< 0.045	< 0.045	< 0.43	< 0.048	< 0.22	< 0.046
2,4-Dinitrotoluene	mg/kg	< 0.016	< 0.016	< 0.016	< 0.017	< 0.014	< 0.016	< 0.091	< 0.016	< 0.016	< 0.15	< 0.017	< 0.077	< 0.016
2,6-Dinitrotoluene	mg/kg	< 0.014	< 0.014	< 0.014	< 0.015	< 0.013	< 0.014	< 0.079	< 0.014	< 0.014	< 0.13	< 0.015	< 0.067	< 0.014
2-Chloronaphthalene	mg/kg	< 0.012	< 0.011	< 0.012	< 0.012	< 0.01	< 0.011	< 0.065	< 0.011	< 0.011	< 0.11	< 0.012	< 0.055	< 0.012
2-Chlorophenol	mg/kg	< 0.038	< 0.036	< 0.038	< 0.04	< 0.034	< 0.037	< 0.21	< 0.037	< 0.037	< 0.36	< 0.04	< 0.18	< 0.038
2-Methylnaphthalene	mg/kg	0.0216 J	0.217	< 0.021	0.0312 J	5.92	6.88	69.3	3.24	7.43	14.7	0.0453 J	45	< 0.021
2-Methylphenol	mg/kg	< 0.043	< 0.041	< 0.043	< 0.045	< 0.038	< 0.042	< 0.24	< 0.042	< 0.042	< 0.4	< 0.045	< 0.2	< 0.043
2-Nitroaniline	mg/kg	< 0.017	< 0.016	< 0.017	< 0.017	< 0.015	< 0.016	< 0.092	< 0.016	< 0.016	< 0.16	< 0.017	< 0.078	< 0.017
2-Nitrophenol	mg/kg	< 0.04	< 0.038	< 0.04	< 0.042	< 0.035	< 0.039	< 0.22	< 0.039	< 0.039	< 0.38	< 0.042	< 0.19	< 0.04
3&4-Methylphenol	mg/kg	< 0.048	< 0.046	< 0.048	< 0.05	< 0.042	0.0596 J	< 0.26	< 0.047	< 0.047	< 0.45	< 0.05	< 0.22	< 0.048
3,3'-Dichlorobenzidine	mg/kg	< 0.0095	< 0.0091	< 0.0095	< 0.0099	< 0.0084	< 0.0093	< 0.053	< 0.0093	< 0.0094	< 0.09	< 0.01	< 0.045	< 0.0096
3-Nitroaniline	mg/kg	< 0.015	< 0.014	< 0.015	< 0.016	< 0.013	< 0.015	< 0.083	< 0.015	< 0.015	< 0.14	< 0.016	< 0.071	< 0.015
4,6-Dinitro-o-cresol	mg/kg	< 0.046	< 0.044	< 0.046	< 0.048	< 0.04	< 0.045	< 0.25	< 0.045	< 0.045	< 0.43	< 0.048	< 0.22	< 0.046
4-Bromophenyl phenyl ether	mg/kg	< 0.014	< 0.013	< 0.014	< 0.014	< 0.012	< 0.013	< 0.076	< 0.013	< 0.013	< 0.13	< 0.014	< 0.064	< 0.014
4-Chloro-3-methyl phenol	mg/kg	< 0.038	< 0.036	< 0.038	< 0.039	< 0.033	< 0.037	< 0.21	< 0.037	< 0.037	< 0.35	< 0.04	< 0.18	< 0.038
4-Chloroaniline	mg/kg	< 0.012	< 0.012	< 0.012	< 0.013	< 0.011	< 0.012	< 0.067	< 0.012	< 0.012	< 0.11	< 0.013	< 0.057	< 0.012
4-Chlorophenyl phenyl ether	mg/kg	< 0.011	< 0.011	< 0.011	< 0.012	< 0.01	< 0.011	< 0.063	< 0.011	< 0.011	< 0.11	< 0.012	< 0.053	< 0.011
4-Nitroaniline	mg/kg	< 0.015	< 0.014	< 0.015	< 0.015	< 0.013	< 0.014	< 0.081	< 0.014	< 0.014	< 0.14	< 0.015	< 0.069	< 0.015
4-Nitrophenol	mg/kg	< 0.063	< 0.061	< 0.063	< 0.066	< 0.056	< 0.062	< 0.35	< 0.062	< 0.062	< 0.6	< 0.067	< 0.3	< 0.064
Acenaphthene	mg/kg	< 0.011	< 0.01	< 0.011	< 0.011	0.0383	0.06	0.476	0.0428	0.0561	0.102 J	< 0.011	< 0.051	< 0.011
Acenaphthylene	mg/kg	< 0.012	< 0.012	< 0.012	< 0.013	< 0.011	< 0.012	< 0.067	0.0169 J	< 0.012	< 0.11	< 0.013	< 0.057	< 0.012
Acetophenone	mg/kg	< 0.0066	< 0.0063	< 0.0066	0.0237 J	< 0.0058	< 0.0065	< 0.037	< 0.0064	< 0.0065	< 0.062	< 0.007	< 0.031	< 0.0066
Anthracene	mg/kg	< 0.013	< 0.013	< 0.013	< 0.014	< 0.012	0.0242 J	0.243	< 0.013	0.0334 J	< 0.12	< 0.014	< 0.062	< 0.013
Atrazine	mg/kg	< 0.0074	< 0.0071	< 0.0074	< 0.0077	< 0.0065	< 0.0072	< 0.041	< 0.0072	< 0.0073	< 0.07	< 0.0078	< 0.035	< 0.0074
Benzaldehyde	mg/kg	< 0.0086	< 0.0083	< 0.0086	< 0.009	< 0.0076	< 0.0084	< 0.048	< 0.0084	< 0.0085	< 0.081	< 0.0091	< 0.041	< 0.0087
Benzo(a)anthracene	mg/kg	0.0238 J	0.0259 J	0.0182 J	0.0201 J	0.0624	0.0383	0.311	< 0.012	0.071	< 0.12	0.0544	< 0.058	0.0333 J
Benzo(a)pyrene	mg/kg	0.0211 J	0.0201 J	0.0164 J	0.0162 J	0.0276 J	0.0301 J	< 0.064	< 0.011	0.0395	< 0.11	0.0543	< 0.054	0.0375 J
Benzo(b)fluoranthene	mg/kg	0.0216 J	0.0238 J	0.0322 J	0.019 J	0.0301 J	0.032 J	< 0.07	< 0.012	0.0521	< 0.12	0.0535	< 0.059	0.036 J
Benzo(g,h,i)perylene	mg/kg	0.0195 J	< 0.013	0.023 J	0.0202 J	0.0346	0.0347 J	< 0.078	< 0.014	0.0507	< 0.13	0.035 J	< 0.066	0.0281 J
Benzo(k)fluoranthene	mg/kg	0.02 J	< 0.014	< 0.014	< 0.015	0.0132 J	0.0318 J	< 0.078	< 0.014	0.0328 J	< 0.13	0.0439	< 0.066	0.0367 J
bis(2-Chloroethoxy)methane	mg/kg	< 0.015	< 0.015	< 0.015	< 0.016	< 0.013	< 0.015	< 0.084	< 0.015	< 0.015	< 0.14	< 0.016	< 0.071	< 0.015
bis(2-Chloroethyl)ether	mg/kg	< 0.011	< 0.011	< 0.011	< 0.012	< 0.01	< 0.011	< 0.063	< 0.011	< 0.011	< 0.11	< 0.012	< 0.053	< 0.011
bis(2-Chloroisopropyl)ether	mg/kg	< 0.011	< 0.011	< 0.011	< 0.012	< 0.0099	< 0.011	< 0.062	< 0.011	< 0.011	< 0.11	< 0.012	< 0.053	< 0.011
bis(2-Ethylhexyl)phthalate	mg/kg	0.0825	0.187	0.0914	0.797	38	28.8	114	4.7	12.2	4.45	0.111	1.28	0.958
Butyl benzyl phthalate	mg/kg	< 0.022	< 0.021	< 0.022	< 0.023	< 0.019	< 0.021	< 0.12	< 0.021	< 0.021	< 0.21	< 0.023	< 0.1	< 0.022
Caprolactam	mg/kg	< 0.012	< 0.011	< 0.012	< 0.012	< 0.01	< 0.012	< 0.066	< 0.012	< 0.012	< 0.11	< 0.012	< 0.056	< 0.012
Carbazole	mg/kg	< 0.017	< 0.017	< 0.017	< 0.018	< 0.015	< 0.017	< 0.097	< 0.017	< 0.017	< 0.16	< 0.018	< 0.082	< 0.017
CHLOROPHENOLS	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.038	< 0.038	< 0.36	< 0.041	< 0.18	< 0.039
Chrysene	mg/kg	0.0277 J	0.0323 J	0.019 J	0.0237 J	0.229	0.0663	0.704	< 0.012	0.103	< 0.12	0.0606	< 0.06	0.037 J
Dibenzo(a,h)anthracene	mg/kg	< 0.013	< 0.012	< 0.013	< 0.013	< 0.011	< 0.013	< 0.071	< 0.012	< 0.013	< 0.12	< 0.013	< 0.06	< 0.013
Dibenzofuran	mg/kg	< 0.011	< 0.011	< 0.011	< 0.012	0.0669	< 0.011	< 0.062	< 0.011	< 0.011	< 0.11	< 0.012	< 0.053	< 0.011
Diethyl phthalate	mg/kg	< 0.013	< 0.012	< 0.013	< 0.013	< 0.011	< 0.013	< 0.071	0.0213 J	< 0.013	< 0.12	< 0.013	< 0.06	< 0.013
Dimethyl phthalate	mg/kg	< 0.013	< 0.013	< 0.013	< 0.014	< 0.012	0.148	0.367 J	0.0525 J	0.135	0.246 J	< 0.014	< 0.062	< 0.013
Di-n-butyl phthalate	mg/kg	< 0.0083	< 0.008	< 0.0083	< 0.0087	1.21	0.146	1.38	0.0844	0.159	0.333 J	< 0.0088	0.551	< 0.0084
Di-n-octyl phthalate	mg/kg	< 0.018	< 0.018	< 0.018	< 0.019	< 0.016	< 0.018	< 0.1	< 0.018	< 0.018	< 0.17	< 0.019	< 0.086	< 0.018
Fluoranthene	mg/kg	0.0285 J	0.0513	0.024 J	0.0285 J	0.208	0.0801	0.639	< 0.016	0.185	< 0.16	0.114	0.167 J	0.051
Fluorene	mg/kg	< 0.012	< 0.012	< 0.012	< 0.013	0.0932	0.0405	0.329	0.0272 J	0.0379	< 0.12	< 0.013	< 0.058	< 0.012
Hexachlorobenzene	mg/kg	< 0.012	< 0.012	< 0.012	< 0.013	< 0.011	< 0.012	< 0.068	< 0.012	< 0.012	< 0.12	< 0.013	< 0.058	< 0.012
Hexachlorobutadiene	mg/kg	< 0.01	< 0.01	< 0.01	< 0.011	< 0.0092	< 0.01	< 0.058	< 0.01	< 0.01	< 0.098	< 0.011	< 0.049	< 0.01
Hexachlorocyclopentadiene	mg/kg	< 0.038	< 0.037	< 0.038	< 0.04	< 0.034	< 0.037	< 0.21	< 0.037	< 0.038	< 0.36	< 0.04	< 0.18	< 0.038
Hexachloroethane	mg/kg	< 0.01	< 0.01	< 0.01	< 0.011	< 0.0092	< 0.01	< 0.058	< 0.01	< 0.01	< 0.098	< 0.011	< 0.049	< 0.01
Indeno(1,2,3-cd)pyrene	mg/kg	0.0153 J	< 0.012	< 0.013	< 0.014	0.0156 J	0.0171 J	< 0.072	< 0.013	0.0236 J	< 0.12	0.0309 J	< 0.061	0.0264 J
Isophorone	mg/kg	< 0.01	< 0.0097	< 0.01	< 0.011	< 0.0089	< 0.0099	< 0.056	< 0.0099	< 0.0099	< 0.095	< 0.011	< 0.048	< 0.01
Naphthalene	mg/kg	0.0547	0.599	0.0521	0.0544	31.9	13.7	95.7	5.12	15.4	39.4	0.0644	151	0.0432
Nitrobenzene	mg/kg	< 0.011	< 0.01	< 0.011	< 0.011	< 0.0096	< 0.011	< 0.06	< 0.011	< 0.011	< 0.1	< 0.011	< 0.051	< 0.011
N-Nitroso-di														

Table 12. Summary of Waste Classification Analytical Results, Operable

Sample ID		WC (040313) - BIN 1	WC (040413)	WC (040813) - 2	WC (040813) - 3	WC (040813) - BIN 1	WC (041013)	WC (041513)	WC (041613)	WC (041713)-BIN 3	WC(041813)BIN 4	WC(041813)BIN 5	WC (041913)-BIN 4	WC (041913)-BIN 6
Sample Date		4/3/2013	4/4/2013	4/8/2013	4/8/2013	4/8/2013	4/10/2013	4/15/2013	4/16/2013	4/17/2013	4/18/2013	4/18/2013	4/19/2013	4/19/2013
SVOCs cont.														
Pentachlorophenol	mg/kg	< 0.064	< 0.062	< 0.064	< 0.067	< 0.057	< 0.063	2.3	< 0.063	< 0.063	< 0.61	< 0.068	< 0.3	< 0.064
Phenanthrene	mg/kg	0.0186 J	0.0364	< 0.017	< 0.018	0.61	0.169	1.61	0.0854	0.216	0.239 J	0.0547	0.252	0.0205 J
Phenol	mg/kg	< 0.039	< 0.038	< 0.039	< 0.041	< 0.035	< 0.039	< 0.22	< 0.038	< 0.039	< 0.37	< 0.042	< 0.19	< 0.039
Pyrene	mg/kg	0.0288 J	0.0441	0.0228 J	0.0323 J	0.36	0.104	< 0.08	0.0538	< 0.014	< 0.14	0.108	0.433	0.0545
PYRIDINE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total TIC, Semi-Volatile	mg/kg	4.44 J	22.8 J	6.36 J	8.17 J	152 J	215 J	2930 J	108 J	422 J	784 J	3.17 J	693 J	1.32 J
SVOCs-Leachate														
1,4-Dichlorobenzene	mg/l	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.00036	< 0.00036	< 0.0036	< 0.0036
2,4,5-Trichlorophenol	mg/l	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.0016	< 0.0016	< 0.016	< 0.016
2,4,6-Trichlorophenol	mg/l	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.0013	< 0.0013	< 0.013	< 0.013
2,4-Dinitrotoluene	mg/l	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.00043	< 0.00043	< 0.0043	< 0.0043
2-Methylphenol	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.01	< 0.01
3&4-Methylphenol	mg/l	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	0.0262	0.0353	< 0.00093	< 0.00093	< 0.0093	< 0.0093
Hexachlorobenzene	mg/l	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.00034	< 0.00034	< 0.0034	< 0.0034
Hexachlorobutadiene	mg/l	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.00051	< 0.00051	< 0.0051	< 0.0051
Hexachloroethane	mg/l	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.00055	< 0.00055	< 0.0055	< 0.0055
Nitrobenzene	mg/l	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.00042	< 0.00042	< 0.0042	< 0.0042
Pentachlorophenol	mg/l	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.0014	< 0.0014	< 0.014	< 0.014
PYRIDINE	mg/l	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.00032	< 0.00032	< 0.0032	< 0.0032
PCBs														
Aroclor 1016	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals-Leachate														
Arsenic	mg/l	0.0041 B	0.0039 B	< 0.00097	< 0.00097	< 0.00097	< 0.00097	< 0.00097	< 0.00097	< 0.00097	0.0035 B	< 0.00097	0.0034 B	< 0.00097
Barium	mg/l	1.4	2.2	1	1.3	2	2.6	6.8	3.4	5.9	2.9	1.9	3.3	0.66 B
Cadmium	mg/l	0.0014 B	0.0025 B	0.0013 B	0.0025 B	0.0045 B	0.0056	0.077	0.016	0.2	0.0059	0.0013 B	0.0097	0.0006 B
Chromium	mg/l	0.0025 B	0.0022 B	0.0024 B	0.022	0.0027 B	0.0052 B	0.021	0.033	0.12	0.01	0.0015 B	0.002 B	0.0012 B
Lead	mg/l	0.69	1.4	0.076 B	0.76	2.9	36	21.2	74.3	61	18.6	0.033 B	9.4	0.058 B
Mercury	mg/l	< 0.000095	< 0.000095	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089
Selenium	mg/l	0.0053 B	0.0042 B	0.0029 B	0.0046 B	< 0.0024	0.0024 B	0.017 B	0.0089 B	0.019 B	0.0039 B	0.0079 B	0.011 B	0.0063 B
Silver	mg/l	< 0.00085	< 0.00085	< 0.00085	< 0.00085	< 0.00085	< 0.00085	0.0017 B	0.0052 B	0.011 B	< 0.00085	< 0.00085	< 0.00085	< 0.00085
Other														
Cyanide Reactivity	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heat Content, BTU	BTU/lb	788	936	859	972	4240	3000	1250	1160	< 0.1	< 0.1	< 0.1	1330	1360
Ignitability (Flashpoint)	Deg F	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS ABOVE C-10	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	su	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide Reactivity	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids, Percent	%	88.3	88.8	85.7	85.1	90.8	84.3	77.3	86.1	87.4	90.5	83.2	86.2	85.2
TOTAL ORGANIC HALIDES (TOX)	mg/kg	112	< 22	< 23	< 23	< 22	< 23	32.7	25.6	28.5	< 22	< 24	< 22	< 23

- Notes:
- mg/kg

NA

<

B

D

E

J

R

Bold

Milligrams per kilogram

Not Analyzed

Not detected

Result is between the method detection limit and the re

Result is based on a diluted sample analysis.

Result exceeds calibration range

Estimated Result

Rejected Result

Detection

Table 12. Summary of Waste Classification Analytical Results, Operabl

Sample ID		WC (042313)-BIN 3	WC (042313)-BIN 7	WC (042413)- BIN 8	WC (042913)- BIN 5	WC (043013)- BIN 1	WC (043013) FS	WC (050113)- BIN 6	WC (050613)- BIN 3 (U	WC (050713) - BIN 3 (F	WC (051013)- FINES	WC (051313) BIN 2	WC (051313) BIN 6	WC(051513)-BIN 4(R
Sample Date		4/23/2013	4/23/2013	4/24/2013	4/29/2013	4/30/2013	4/30/2013	5/1/2013	5/6/2013	5/7/2013	5/10/2013	5/13/2013	5/13/2013	5/15/2013
VOCs														
1,1,1-Trichloroethane	mg/kg	< 0.033	< 0.00011	< 0.67	< 0.0063	< 0.017	< 0.00012	< 0.0001	< 0.1	< 0.13	< 0.0051	< 0.0065	< 0.00012	< 1.1
1,1,2,2-Tetrachloroethane	mg/kg	< 0.041	< 0.00013	< 0.84	< 0.0078	< 0.021	< 0.00015	< 0.00013	< 0.13	< 0.17	< 0.0063	< 0.0081	< 0.00015	< 1.3
1,1,2-Trichloroethane	mg/kg	< 0.054	< 0.00018	< 1.1	< 0.01	< 0.028	< 0.0002	< 0.00017	< 0.17	< 0.22	< 0.0083	< 0.011	< 0.00019	< 1.7
1,1-Dichloroethane	mg/kg	< 0.043	< 0.00014	< 0.87	< 0.0081	< 0.022	< 0.00015	< 0.00013	< 0.13	< 0.17	< 0.0066	0.0514 J	< 0.00015	< 1.4
1,1-Dichloroethene	mg/kg	< 0.08	< 0.00026	< 1.6	< 0.015	< 0.042	< 0.00029	< 0.00025	< 0.24	< 0.33	< 0.012	< 0.016	< 0.00029	< 2.6
1,2,3-TRICHLOROBENZENE	mg/kg	< 0.051	< 0.00017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	< 0.043	< 0.00014	< 0.88	< 0.0082	< 0.022	< 0.00016	< 0.00014	< 0.13	< 0.18	< 0.0067	< 0.0086	< 0.00015	< 1.4
1,2-Dibromo-3-chloropropane	mg/kg	< 0.28	< 0.0009	< 5.7	< 0.053	< 0.14	< 0.001	< 0.00086	< 0.85	< 1.1	< 0.043	< 0.055	< 0.00099	< 8.9
1,2-Dibromoethane	mg/kg	< 0.039	< 0.00013	< 0.81	< 0.0075	< 0.021	< 0.00014	< 0.00012	< 0.12	< 0.16	< 0.0061	< 0.0078	< 0.00014	< 1.3
1,2-Dichlorobenzene	mg/kg	< 0.059	< 0.00019	< 1.2	< 0.011	< 0.031	< 0.00021	< 0.00018	< 0.18	< 0.24	< 0.0091	< 0.012	< 0.00021	< 1.9
1,2-Dichloroethane	mg/kg	< 0.042	< 0.00014	< 0.86	< 0.008	< 0.022	< 0.00015	< 0.00013	< 0.13	< 0.17	< 0.0065	< 0.0083	< 0.00015	< 1.3
1,2-Dichloropropane	mg/kg	< 0.048	< 0.00016	< 0.98	< 0.0091	< 0.025	< 0.00017	< 0.00015	< 0.15	< 0.2	< 0.0074	< 0.0095	< 0.00017	< 1.5
1,3-Dichlorobenzene	mg/kg	< 0.058	< 0.00019	< 1.2	< 0.011	< 0.03	< 0.00021	< 0.00018	< 0.18	< 0.24	< 0.009	< 0.012	< 0.00021	< 1.9
1,4-Dichlorobenzene	mg/kg	< 0.055	< 0.00018	< 1.1	< 0.01	< 0.028	< 0.0002	< 0.00017	< 0.17	< 0.22	< 0.0084	< 0.011	< 0.0002	< 1.8
1,4-Dioxane	mg/kg	< 18	< 0.06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (MEK)	mg/kg	< 0.74	< 0.0024	< 15	< 0.14	< 0.39	< 0.0027	< 0.0023	< 2.3	< 3	< 0.11	< 0.15	< 0.0027	< 24
2-Hexanone	mg/kg	< 0.19	< 0.00063	< 4	< 0.037	< 0.1	< 0.0007	< 0.0006	< 0.59	< 0.79	< 0.03	< 0.038	< 0.00069	< 6.2
4-Methyl-2-pentanone(MIBK)	mg/kg	< 0.23	< 0.00076	< 4.8	< 0.044	< 0.12	< 0.00084	< 0.00073	< 0.71	< 0.95	2.25	11.3	< 0.00083	< 7.5
Acetone	mg/kg	< 0.53	< 0.0017	< 11	0.821	< 0.27	< 0.0019	< 0.0016	< 1.6	< 2.1	1.7	3.87	0.0204	< 17
Benzene	mg/kg	0.23 J	< 0.00012	2.9 J	0.244	0.0668 J	< 0.00013	< 0.00012	0.415 J	0.306 J	0.228	5.63	< 0.00013	< 1.2
Bromodichloromethane	mg/kg	< 0.033	< 0.00011	< 0.67	< 0.0062	< 0.017	< 0.00012	< 0.0001	< 0.1	< 0.13	< 0.005	< 0.0065	< 0.00012	< 1
Bromoform	mg/kg	< 0.047	< 0.00015	< 0.96	< 0.0089	< 0.024	< 0.00017	< 0.00015	< 0.14	< 0.19	< 0.0072	< 0.0093	< 0.00017	< 1.5
Bromomethane	mg/kg	< 0.085	< 0.00028	< 1.7	< 0.016	< 0.044	< 0.00031	< 0.00027	< 0.26	< 0.35	< 0.013	< 0.017	< 0.0003	< 2.7
Carbon disulfide	mg/kg	< 0.036	< 0.00012	< 0.74	< 0.0069	< 0.019	< 0.00013	< 0.00011	< 0.11	< 0.15	< 0.0056	< 0.0072	< 0.00013	< 1.2
Carbon tetrachloride	mg/kg	< 0.041	< 0.00013	< 0.85	< 0.0079	< 0.021	< 0.00015	< 0.00013	< 0.13	< 0.17	< 0.0064	< 0.0082	< 0.00015	< 1.3
Chlorobenzene	mg/kg	< 0.034	< 0.00011	< 0.69	< 0.0064	< 0.017	< 0.00012	< 0.0001	< 0.1	< 0.14	< 0.0052	< 0.0067	< 0.00012	< 1.1
CHLOROBROMOMETHANE	mg/kg	< 0.082	< 0.00027	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	< 0.071	< 0.00023	< 1.4	< 0.013	< 0.037	< 0.00025	< 0.00022	< 0.22	< 0.29	< 0.011	< 0.014	< 0.00025	< 2.3
Chloroform	mg/kg	< 0.026	< 0.000084	< 0.53	< 0.0049	< 0.013	< 0.000093	< 0.00008	< 0.079	< 0.1	< 0.004	< 0.0051	< 0.000092	< 0.82
Chloromethane	mg/kg	< 0.058	< 0.00019	< 1.2	< 0.011	< 0.03	< 0.00021	< 0.00018	< 0.18	< 0.24	< 0.0089	< 0.011	< 0.00021	< 1.9
cis-1,2-Dichloroethene	mg/kg	< 0.057	< 0.00019	< 1.2	< 0.011	< 0.03	< 0.00021	< 0.00018	< 0.17	< 0.23	< 0.0088	< 0.011	< 0.0002	< 1.8
cis-1,3-Dichloropropene	mg/kg	< 0.043	< 0.00014	< 0.88	< 0.0082	< 0.022	< 0.00016	< 0.00014	< 0.13	< 0.18	< 0.0067	< 0.0086	< 0.00015	< 1.4
Cyclohexane	mg/kg	0.377 J	< 0.00013	< 0.79	< 0.0073	0.414 J	< 0.00014	< 0.00012	< 0.12	0.662 J	0.607	12.6	< 0.00014	< 1.2
Dibromochloromethane	mg/kg	< 0.051	< 0.00017	< 1	< 0.0097	< 0.027	< 0.00018	< 0.00016	< 0.16	< 0.21	< 0.0079	< 0.01	< 0.00018	< 1.6
Dichlorodifluoromethane	mg/kg	< 0.071	< 0.00023	< 1.5	< 0.013	< 0.037	< 0.00026	< 0.00022	< 0.22	< 0.29	< 0.011	< 0.014	< 0.00025	< 2.3
Ethylbenzene	mg/kg	58.8	0.0028	509	138	21.7	0.00045 J	< 0.00026	171	111	82.2	176	0.0022	572
Freon 113	mg/kg	< 0.13	< 0.00044	< 2.7	< 0.025	< 0.069	< 0.00048	< 0.00042	< 0.41	< 0.55	< 0.021	< 0.027	< 0.00048	< 4.3
Isopropylbenzene	mg/kg	5.57	0.00031 J	88.2	20.6 J	2.81	< 0.000083	< 0.000072	28.6	13.4	9.38	12.3	0.00037 J	123
Methyl Acetate	mg/kg	< 0.81	< 0.0026	< 17	< 0.15	< 0.42	< 0.0029	< 0.0025	< 2.5	< 3.3	0.238 J	0.355	< 0.0029	< 26
Methyl Tert Butyl Ether	mg/kg	< 0.073	< 0.00024	< 1.5	< 0.014	< 0.038	< 0.00026	< 0.00023	< 0.22	< 0.3	< 0.011	< 0.015	< 0.00026	< 2.3
Methylcyclohexane	mg/kg	2.09	< 0.00017	15.4 J	5.61	1.32	< 0.00019	< 0.00016	4.61 J	3.04 J	2.24	14.5	< 0.00019	10.4 J
Methylene chloride	mg/kg	< 0.39	0.0028 J	< 8.1	0.117 JB	< 0.21	0.0031 J	0.006 B	< 1.2	< 1.6	< 0.061	< 0.078	0.0038 J	< 13
Styrene	mg/kg	< 0.029	< 0.000093	< 0.58	< 0.0054	< 0.015	< 0.0001	< 0.000089	< 0.087	< 0.12	< 0.0044	< 0.0057	< 0.0001	

Table 12. Summary of Waste Classification Analytical Results, Operable

Sample ID		WC (042313)-BIN 3	WC (042313)-BIN 7	WC (042413)- BIN 8	WC (042913)- BIN 5	WC (043013)- BIN 1	WC (043013) FS	WC (050113)- BIN 6	WC (050613)- BIN 3	L/C (050713) - BIN 3 (F	WC (051013)- FINES	WC (051313) BIN 2	WC (051313) BIN 6	WC(051513)-BIN 4(R)
Sample Date		4/23/2013	4/23/2013	4/24/2013	4/29/2013	4/30/2013	4/30/2013	5/1/2013	5/6/2013	5/7/2013	5/10/2013	5/13/2013	5/13/2013	5/15/2013
SVOCS														
1,1'-Biphenyl	mg/kg	0.0365 J	< 0.0044	0.368	0.354	0.0364 J	< 0.004	< 0.004	0.182 J	< 0.0042	0.125	0.0409 J	< 0.0041	0.338 J
1,2,4,5-TETRACHLOROBENZENE	mg/kg	< 0.011	< 0.012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	< 0.042	< 0.044	< 0.047	< 0.04	< 0.041	< 0.04	< 0.04	< 0.2	< 0.042	< 0.041	< 0.038	< 0.041	< 0.22
2,4,6-Trichlorophenol	mg/kg	< 0.034	< 0.035	< 0.038	< 0.032	< 0.033	< 0.033	< 0.033	< 0.16	< 0.034	< 0.034	< 0.031	< 0.033	< 0.18
2,4-Dichlorophenol	mg/kg	< 0.058	< 0.061	< 0.066	< 0.056	< 0.057	< 0.056	< 0.056	< 0.27	< 0.058	< 0.058	< 0.053	< 0.057	< 0.31
2,4-Dimethylphenol	mg/kg	< 0.06	< 0.063	< 0.068	< 0.058	< 0.06	< 0.058	< 0.058	< 0.29	< 0.061	< 0.06	< 0.055	< 0.059	< 0.33
2,4-Dinitrophenol	mg/kg	< 0.044	< 0.046	< 0.05	< 0.042	< 0.043	< 0.042	< 0.042	< 0.21	< 0.044	< 0.044	< 0.04	< 0.043	< 0.24
2,4-Dinitrotoluene	mg/kg	< 0.016	< 0.016	< 0.018	< 0.015	< 0.016	< 0.015	< 0.015	< 0.074	< 0.016	< 0.016	< 0.014	< 0.015	< 0.085
2,6-Dinitrotoluene	mg/kg	< 0.014	< 0.014	< 0.016	< 0.013	< 0.014	< 0.013	< 0.013	< 0.065	< 0.014	< 0.014	< 0.013	< 0.013	< 0.074
2-Chloronaphthalene	mg/kg	< 0.011	< 0.012	< 0.013	< 0.011	< 0.011	< 0.011	< 0.011	< 0.053	< 0.011	< 0.011	< 0.01	< 0.011	< 0.06
2-Chlorophenol	mg/kg	< 0.036	< 0.038	< 0.041	< 0.035	< 0.036	< 0.035	< 0.035	< 0.17	< 0.037	< 0.036	< 0.033	< 0.036	< 0.2
2-Methylnaphthalene	mg/kg	1.7	< 0.021	10.6	21.3	1.79	0.0239 J	< 0.019	5.12	1.19	3.19	2.28	< 0.02	7.19
2-Methylphenol	mg/kg	< 0.041	< 0.043	< 0.046	1.35	< 0.041	< 0.039	< 0.039	< 0.19	< 0.041	< 0.041	< 0.037	< 0.04	< 0.22
2-Nitroaniline	mg/kg	< 0.016	< 0.017	< 0.018	< 0.015	< 0.016	< 0.015	< 0.015	< 0.075	< 0.016	< 0.016	< 0.014	< 0.015	< 0.085
2-Nitrophenol	mg/kg	< 0.038	< 0.04	< 0.043	< 0.037	< 0.038	< 0.037	< 0.037	< 0.18	< 0.038	< 0.038	< 0.035	< 0.037	< 0.21
3&4-Methylphenol	mg/kg	< 0.045	< 0.048	< 0.052	0.885	< 0.045	< 0.044	< 0.044	< 0.22	< 0.046	0.148	< 0.042	< 0.045	< 0.25
3,3'-Dichlorobenzidine	mg/kg	< 0.0091	< 0.0096	< 0.01	< 0.0088	< 0.009	< 0.0088	< 0.0088	< 0.043	< 0.0092	< 0.0091	< 0.0084	< 0.0089	< 0.049
3-Nitroaniline	mg/kg	< 0.014	< 0.015	< 0.016	< 0.014	< 0.014	< 0.014	< 0.014	< 0.068	< 0.014	< 0.014	< 0.013	< 0.014	< 0.077
4,6-Dinitro-o-cresol	mg/kg	< 0.044	< 0.046	< 0.05	< 0.042	< 0.043	< 0.042	< 0.042	< 0.21	< 0.044	< 0.044	< 0.04	< 0.043	< 0.24
4-Bromophenyl phenyl ether	mg/kg	< 0.013	< 0.014	< 0.015	< 0.013	< 0.013	< 0.013	< 0.013	< 0.062	< 0.013	< 0.013	< 0.012	< 0.013	< 0.07
4-Chloro-3-methyl phenol	mg/kg	< 0.036	< 0.038	< 0.041	< 0.035	< 0.036	< 0.035	< 0.035	< 0.17	< 0.036	< 0.036	< 0.033	< 0.035	< 0.19
4-Chloroaniline	mg/kg	< 0.011	< 0.012	< 0.013	< 0.011	< 0.011	< 0.011	< 0.011	< 0.054	< 0.012	< 0.011	< 0.011	< 0.011	< 0.062
4-Chlorophenyl phenyl ether	mg/kg	< 0.011	< 0.011	< 0.012	< 0.01	< 0.011	< 0.01	< 0.01	< 0.051	< 0.011	< 0.011	< 0.0099	< 0.011	< 0.058
4-Nitroaniline	mg/kg	< 0.014	< 0.015	< 0.016	< 0.013	< 0.014	< 0.013	< 0.013	< 0.066	< 0.014	< 0.014	< 0.013	< 0.014	< 0.076
4-Nitrophenol	mg/kg	< 0.061	< 0.064	< 0.069	< 0.058	< 0.06	< 0.058	< 0.058	< 0.29	< 0.061	< 0.06	< 0.056	< 0.06	< 0.33
Acenaphthene	mg/kg	< 0.01	< 0.011	0.0537	0.109	0.0237 J	< 0.01	< 0.01	0.521	< 0.01	0.0753	< 0.0095	< 0.01	< 0.056
Acenaphthylene	mg/kg	< 0.011	< 0.012	< 0.013	< 0.011	< 0.011	< 0.011	< 0.011	0.808	< 0.012	0.0576	< 0.011	< 0.011	< 0.062
Acetophenone	mg/kg	< 0.0063	< 0.0066	< 0.0072	< 0.0061	< 0.0063	< 0.0061	< 0.0061	< 0.03	< 0.0064	< 0.0063	< 0.0058	< 0.0062	< 0.034
Anthracene	mg/kg	< 0.013	< 0.013	0.0242 J	0.0144 J	< 0.012	< 0.012	< 0.012	0.234	< 0.013	0.111	0.0372	< 0.012	< 0.068
Atrazine	mg/kg	< 0.0071	< 0.0074	< 0.008	< 0.0068	< 0.007	< 0.0068	< 0.0068	< 0.034	< 0.0071	< 0.007	< 0.0065	< 0.0069	< 0.038
Benzaldehyde	mg/kg	< 0.0082	< 0.0087	< 0.0094	< 0.0079	< 0.0082	< 0.008	< 0.008	< 0.039	< 0.0083	< 0.0082	< 0.0076	< 0.0081	< 0.045
Benzo(a)anthracene	mg/kg	< 0.012	0.0521	0.0544	< 0.011	0.0251 J	0.0329 J	0.0225 J	< 0.055	< 0.012	0.142	0.0831	0.0463	< 0.063
Benzo(a)pyrene	mg/kg	< 0.011	0.0556	0.0575	< 0.011	0.0194 J	0.0316 J	0.0177 J	0.174	< 0.011	0.122	< 0.01	< 0.011	< 0.059
Benzo(b)fluoranthene	mg/kg	< 0.012	0.0555	0.0664	< 0.012	0.0206 J	0.0314 J	0.0203 J	< 0.057	< 0.012	0.143	< 0.011	< 0.012	< 0.065
Benzo(g,h,i)perylene	mg/kg	< 0.013	0.0446	0.187	< 0.013	0.0187 J	0.0245 J	0.0149 J	0.587	< 0.013	0.107	< 0.012	< 0.013	< 0.072
Benzo(k)fluoranthene	mg/kg	< 0.013	0.0515	0.0431	< 0.013	< 0.013	0.0264 J	< 0.013	< 0.064	< 0.014	0.087	< 0.012	< 0.013	< 0.073
bis(2-Chloroethoxy)methane	mg/kg	< 0.014	< 0.015	< 0.016	< 0.014	< 0.014	< 0.014	< 0.014	< 0.069	< 0.015	< 0.014	< 0.013	< 0.014	< 0.078
bis(2-Chloroethyl)ether	mg/kg	< 0.011	< 0.011	< 0.012	< 0.01	< 0.011	< 0.01	< 0.01	< 0.051	< 0.011	< 0.011	< 0.0099	< 0.011	< 0.058
bis(2-Chloroisopropyl)ether	mg/kg	< 0.011	< 0.011	< 0.012	< 0.01	< 0.011	< 0.01	< 0.01	< 0.051	< 0.011	< 0.011	< 0.0098	< 0.01	< 0.058
bis(2-Ethylhexyl)phthalate	mg/kg	9.41	0.273	38.4	32.7	7.27	0.0643 J	0.278	1.33	0.644	5.9	118	< 0.031	188
Butyl benzyl phthalate	mg/kg	< 0.021	< 0.022	< 0.024	< 0.02	< 0.021	< 0.02	< 0.02	< 0.098	< 0.021	< 0.021	< 0.019	< 0.02	< 0.11
Caprolactam	mg/kg	< 0.011	< 0.012	< 0.013	< 0.011	< 0.011	< 0.011	< 0.011	< 0.054	< 0.011	< 0.011	< 0.01	< 0.011	< 0.061
Carbazole	mg/kg	< 0.017	< 0.017	< 0.019	< 0.016	< 0.016	< 0.016	< 0.016	< 0.079	< 0.017	0.0586 J	< 0.015	< 0.016	< 0.09
CHLOROPHENOLS	mg/kg	< 0.037	< 0.039	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	< 0.012	0.056	0.0797	< 0.012	0.0361	0.0414	0.0197 J	< 0.057	< 0.012	0.158	0.136	0.0502	< 0.065
Dibenzo(a,h)anthracene	mg/kg	< 0.012	< 0.013	0.021 J	< 0.012	< 0.012	< 0.012	< 0.012	0.0848 J	< 0.012	< 0.012	< 0.011	< 0.012	< 0.066
Dibenzofuran	mg/kg	< 0.011	< 0.011	0.0508 J	0.0559 J	< 0.011	< 0.01	< 0.01	< 0.051	< 0.011	0.0684 J	< 0.0098	< 0.01	< 0.058
Diethyl phthalate	mg/kg	< 0.012	< 0.013	< 0.014	< 0.012	< 0.012	< 0.012	< 0.012	< 0.058	< 0.012	0.0462 J	< 0.011	< 0.012	< 0.066
Dimethyl phthalate	mg/kg	< 0.013	< 0.013	0.104	0.109	< 0.013	< 0.012	< 0.012	< 0.06	< 0.013	0.11	0.0494 J	< 0.012	1.05
Di-n-butyl phthalate	mg/kg	0.118	< 0.0084	0.153	0.3	0.0719	< 0.0077	< 0.0077	< 0.038	< 0.008	0.443	0.584	< 0.0078	1.49
Di-n-octyl phthalate	mg/kg	< 0.017	< 0.018	< 0.02	< 0.017	< 0.017	< 0.017	< 0.017	< 0.083	< 0.018	< 0.017	< 0.016	< 0.017	< 0.094
Fluoranthene	mg/kg	0.047	0.097	0.107	0.053	0.0444	0.0553	0.0304 J	0.142 J	< 0.016	0.267	< 0.015	0.0369	0.207
Fluorene	mg/kg	< 0.012	< 0.012	0.0722	0.091	0.0222 J	< 0.011	< 0.011	0.386	< 0.012	0.0925	0.043	< 0.012	0.226
Hexachlorobenzene	mg/kg	< 0.012	< 0.012	< 0.013	< 0.011	< 0.012	< 0.011	< 0.011	< 0.055	< 0.012	< 0.012	< 0.011	< 0.011	< 0.063
Hexachlorobutadiene	mg/kg	< 0.01	< 0.01	< 0.011	< 0.0096	< 0.0099	< 0.0096	< 0.0096	< 0.047	< 0.01	0.0381	< 0.0091	< 0.0098	< 0.054
Hexachlorocyclopentadiene	mg/kg	< 0.037	< 0.038	< 0.042	< 0.035	< 0.036	< 0.035	< 0.035	< 0.17	< 0.037	0.0421 J	< 0.034	< 0.036	< 0.2
Hexachloroethane	mg/kg	< 0.01	< 0.01	< 0.011	< 0.0096	< 0.0099	< 0.0096	< 0.0096	< 0.047	< 0.01	< 0.0099	< 0.0091	< 0.0098	< 0.054
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.012	0.0392	0.0994	< 0.012	< 0.012	0.0196 J	0.0139 J	0.247	< 0.013	< 0.012	< 0.011	< 0.012	< 0.067
Isophorone	mg/kg	< 0.0096	< 0.01	< 0.011	< 0.0093	< 0.0096	< 0.0093	< 0.0093	< 0.046	< 0.0097	< 0.0096	< 0.0088	< 0.0095	< 0.052
Naphthalene	mg/kg	6.62	0.0233 J	27.3	57.1	3.26	0.0562	0.0139 J	14.8	1.91	11.5	12.2	0.0165 J	72.7
Nitrobenzene	mg/kg	< 0.01	< 0.011	< 0.012	< 0.01	< 0.01	< 0.01	< 0.01	< 0.049	< 0.01	< 0.01	< 0.0095	< 0.01	< 0.056
N-Nitroso-di-n-propylamine	mg/kg	< 0.0087	< 0.0092	< 0.0099	< 0.0084	< 0.0087	< 0.0084	< 0.0084	< 0.041	< 0.0088	< 0.0087	< 0.008	< 0.0086	< 0.047
N-Nitrosodiphenylamine	mg/kg	< 0.021	< 0.022	< 0.024	< 0.021	0.0669 J	< 0.021	< 0.021	< 0.1	< 0.022	< 0.021	0.781	< 0.021	< 0.12

Table 12. Summary of Waste Classification Analytical Results, Operable

Sample ID		WC (042313)-BIN 3	WC (042313)-BIN 7	WC (042413)- BIN 8	WC (042913)- BIN 5	WC (043013)- BIN 1	WC (043013) FS	WC (050113)- BIN 6	WC (050613)- BIN 3 (L/C	(050713) - BIN 3 (F	WC (051013)- FINES	WC (051313) BIN 2	WC (051313) BIN 6	WC(051513)-BIN 4(R
Sample Date		4/23/2013	4/23/2013	4/24/2013	4/29/2013	4/30/2013	4/30/2013	5/1/2013	5/6/2013	5/7/2013	5/10/2013	5/13/2013	5/13/2013	5/15/2013
SVOCs cont.														
Pentachlorophenol	mg/kg	< 0.061	< 0.064	< 0.07	< 0.059	< 0.061	< 0.059	< 0.059	< 0.29	< 0.062	< 0.061	< 0.056	< 0.06	< 0.33
Phenanthrene	mg/kg	0.104	0.0438	0.215	0.214	0.108	0.0422	0.0208 J	0.484	< 0.016	0.353	0.253	0.028 J	0.97
Phenol	mg/kg	< 0.038	< 0.04	< 0.043	< 0.036	< 0.037	< 0.036	< 0.036	< 0.18	< 0.038	< 0.038	< 0.035	< 0.037	< 0.2
Pyrene	mg/kg	0.0684	0.0893	0.0502	0.0468	0.0524	0.0659	0.0413	0.226	< 0.014	0.209	0.249	0.0544	0.379
PYRIDINE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total TIC, Semi-Volatile	mg/kg	114 J	2.27 J	101 J	134 J	68.4 J	4.7 J	0.57 J	191 J	59.8 J	99.1 J	229 J	13.4 J	1760 J
SVOCs-Leachate														
1,4-Dichlorobenzene	mg/l	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036
2,4,5-Trichlorophenol	mg/l	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
2,4,6-Trichlorophenol	mg/l	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,4-Dinitrotoluene	mg/l	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043
2-Methylphenol	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
3&4-Methylphenol	mg/l	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	0.0136 J	< 0.0093	< 0.0093	< 0.0093
Hexachlorobenzene	mg/l	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034
Hexachlorobutadiene	mg/l	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051
Hexachloroethane	mg/l	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055
Nitrobenzene	mg/l	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042
Pentachlorophenol	mg/l	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
PYRIDINE	mg/l	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	0.0047 J	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032
PCBs														
Aroclor 1016	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals-Leachate														
Arsenic	mg/l	0.0041 B	< 0.00097	0.012 B	0.0054 B	0.0044 B	0.0012 B	< 0.00097	0.01 B	0.0021 B	0.0093 B	< 0.00097	< 0.00097	0.0029 B
Barium	mg/l	3.4	0.84 B	8.8	7.6	2.8	3	2	6.8	12.5	3.1	2.3	0.64 B	448
Cadmium	mg/l	0.0051	0.0012 B	0.011	0.0068	0.0058	0.0031 B	0.0011 B	0.028	0.012	0.032	0.0073 B	0.0015 B	0.25
Chromium	mg/l	0.002 B	0.0016 B	0.042	0.0047 B	0.0078 B	< 0.00091	< 0.00091	0.029	0.064	0.0055 B	0.0049 B	< 0.00091	0.043
Lead	mg/l	5.6	0.1 B	11.7	0.78	11.1	1.5	0.4 B	417	56.1	268	14.2	0.0071 B	20.7
Mercury	mg/l	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	0.00011 B
Selenium	mg/l	0.0081 B	0.005 B	0.01 B	0.013 B	0.0045 B	0.0025 B	0.0089 B	< 0.0024	0.009 B	< 0.0024	0.015 B	0.0067 B	0.0024 B
Silver	mg/l	< 0.00085	< 0.00085	0.0016 B	< 0.00085	< 0.00085	< 0.00085	< 0.00085	0.0039 B	0.0019 B	0.0046 B	0.0017 B	< 0.00085	0.001 B
Other														
Cyanide Reactivity	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heat Content, BTU	BTU/lb	13200	550	1300	867	772	463	392	904	349	886	640	459	5190
Ignitability (Flashpoint)	Deg F	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS ABOVE C-10	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	su	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide Reactivity	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids, Percent	%	85.1	83.5	79.5	87.5	84	90.9	85.8	91.3	87.2	92.9	84.7	85	81.2
TOTAL ORGANIC HALIDES (TOX)	mg/kg	< 23	< 24	< 25	402	< 24	< 22	< 20	< 20	< 20	< 20	< 24	< 23	430

Notes:

mg/kg	Milligrams per kilogram
NA	Not Analyzed
<	Not detected
B	Result is between the method detection limit and the re
D	Result is based on a diluted sample analysis.
E	Result exceeds calibration range
J	Estimated Result
R	Rejected Result
Bold	Detection

Table 12. Summary of Waste Classification Analytical Results, Operabl

Sample ID		WC(051613) BIN 1	WC(051613) BIN 3F	WC(051613) BIN 4P	WC(051613) BIN 5F	WC(052113)-BIN 2F	WC(052313)-BIN 6	WC(052813)-BIN 5	WC (053113)-BIN 1	WC (060313)-BIN 2	WC (060513) 3L	WC (060513) 3R	WC (061413)-BIN 6F
Sample Date		5/16/2013	5/16/2013	5/16/2013	5/16/2013	5/21/2013	5/23/2013	5/28/2013	5/31/2013	6/3/2013	6/5/2013	6/5/2013	6/14/2013
VOCs													
1,1,1-Trichloroethane	mg/kg	< 0.00011	< 0.0057	< 0.14	< 0.0053	< 0.007	< 0.059	< 0.0061	< 0.0053	< 0.13	< 0.0061	< 0.000099	< 0.065
1,1,2,2-Tetrachloroethane	mg/kg	< 0.00014	< 0.0071	< 0.18	< 0.0066	< 0.0087	< 0.073	< 0.0076	< 0.0066	< 0.16	< 0.0076	< 0.00012	< 0.081
1,1,2-Trichloroethane	mg/kg	< 0.00018	< 0.0093	< 0.24	< 0.0087	< 0.011	< 0.096	< 0.01	< 0.0087	< 0.21	< 0.01	< 0.00016	< 0.11
1,1-Dichloroethane	mg/kg	< 0.00014	< 0.0073	< 0.19	< 0.0069	< 0.009	< 0.076	< 0.0079	< 0.0069	< 0.16	< 0.0078	< 0.00013	< 0.085
1,1-Dichloroethene	mg/kg	< 0.00027	< 0.014	< 0.35	< 0.013	< 0.017	< 0.14	< 0.015	< 0.013	< 0.31	< 0.015	< 0.00024	< 0.16
1,2,3-TRICHLOROBENZENE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	< 0.00014	< 0.0074	< 0.19	< 0.007	< 0.0091	< 0.077	< 0.008	< 0.007	< 0.17	< 0.008	< 0.00013	< 0.086
1,2-Dibromo-3-chloropropane	mg/kg	< 0.00093	< 0.048	< 1.2	< 0.045	< 0.058	< 0.49	< 0.051	< 0.045	< 1.1	< 0.051	< 0.00083	< 0.55
1,2-Dibromoethane	mg/kg	< 0.00013	< 0.0068	< 0.17	< 0.0064	< 0.0083	< 0.07	< 0.0073	< 0.0064	< 0.15	< 0.0073	< 0.00012	< 0.078
1,2-Dichlorobenzene	mg/kg	< 0.0002	< 0.01	< 0.26	< 0.0095	< 0.012	< 0.1	< 0.011	< 0.0095	< 0.22	< 0.011	< 0.00018	< 0.12
1,2-Dichloroethane	mg/kg	< 0.00014	< 0.0072	< 0.18	< 0.0068	< 0.0089	< 0.075	< 0.0077	< 0.0068	< 0.16	< 0.0077	< 0.00013	< 0.083
1,2-Dichloropropane	mg/kg	< 0.00016	< 0.0082	< 0.21	< 0.0077	< 0.01	< 0.085	< 0.0088	< 0.0077	< 0.18	< 0.0088	< 0.00014	< 0.095
1,3-Dichlorobenzene	mg/kg	< 0.00019	< 0.01	< 0.26	< 0.0094	< 0.012	< 0.1	< 0.011	< 0.0094	< 0.22	< 0.011	< 0.00018	< 0.12
1,4-Dichlorobenzene	mg/kg	< 0.00018	< 0.0094	< 0.24	< 0.0088	< 0.012	< 0.098	< 0.01	< 0.0088	< 0.21	< 0.01	< 0.00017	< 0.11
1,4-Dioxane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (MEK)	mg/kg	< 0.0025	< 0.13	< 3.3	< 0.12	< 0.16	< 1.3	< 0.14	< 0.12	< 2.8	< 0.14	< 0.0022	< 1.5
2-Hexanone	mg/kg	< 0.00065	< 0.033	< 0.85	< 0.031	< 0.041	< 0.34	< 0.036	< 0.031	< 0.74	< 0.036	< 0.00058	< 0.38
4-Methyl-2-pentanone(MIBK)	mg/kg	0.0171	0.215 J	< 1	1.2	< 0.049	7.4	< 0.043	0.215 J	< 0.89	0.159 J	< 0.0007	< 0.46
Acetone	mg/kg	0.0439	0.773	< 2.3	< 0.085	2.05	2.41 J	< 0.097	0.851	< 2	< 0.097	< 0.0016	< 1
Benzene	mg/kg	0.0011	0.0396 J	< 0.16	0.142	0.0999	2.45	0.0925	0.163	< 0.14	0.0382 J	< 0.00011	0.421 J
Bromodichloromethane	mg/kg	< 0.00011	< 0.0056	< 0.14	< 0.0053	< 0.0069	< 0.058	< 0.006	< 0.0053	< 0.12	< 0.006	< 0.000098	< 0.065
Bromoform	mg/kg	< 0.00016	< 0.0081	< 0.21	< 0.0076	< 0.0099	< 0.084	< 0.0087	< 0.0076	< 0.18	< 0.0087	< 0.00014	< 0.093
Bromomethane	mg/kg	< 0.00028	< 0.015	< 0.37	< 0.014	< 0.018	< 0.15	< 0.016	< 0.014	< 0.32	< 0.016	< 0.00026	< 0.17
Carbon disulfide	mg/kg	< 0.00012	< 0.0063	< 0.16	< 0.0059	< 0.0077	< 0.065	< 0.0067	< 0.0059	< 0.14	< 0.0067	< 0.00011	< 0.072
Carbon tetrachloride	mg/kg	< 0.00014	< 0.0071	< 0.18	< 0.0067	< 0.0087	< 0.074	< 0.0076	< 0.0076	< 0.16	< 0.0076	< 0.00012	< 0.082
Chlorobenzene	mg/kg	< 0.00011	< 0.0058	< 0.15	< 0.0054	< 0.0071	< 0.06	< 0.0062	< 0.0054	< 0.13	< 0.0062	< 0.0001	< 0.067
CHLOROBROMOMETHANE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	< 0.00024	< 0.012	< 0.31	< 0.011	< 0.015	< 0.13	< 0.013	< 0.011	< 0.27	< 0.013	< 0.00021	< 0.14
Chloroform	mg/kg	< 0.000086	< 0.0044	< 0.11	< 0.0041	< 0.0054	< 0.046	< 0.0047	< 0.0041	< 0.098	< 0.0047	< 0.000077	< 0.051
Chloromethane	mg/kg	< 0.00019	< 0.01	< 0.25	< 0.0093	< 0.012	< 0.1	< 0.011	< 0.0093	< 0.22	< 0.011	< 0.00017	< 0.11
cis-1,2-Dichloroethene	mg/kg	< 0.00019	< 0.0098	< 0.25	< 0.0092	< 0.012	< 0.1	< 0.01	< 0.0092	< 0.22	< 0.01	< 0.00017	< 0.11
cis-1,3-Dichloropropene	mg/kg	< 0.00014	< 0.0074	< 0.19	< 0.007	< 0.0091	< 0.077	< 0.008	< 0.007	< 0.17	< 0.008	< 0.00013	< 0.086
Cyclohexane	mg/kg	0.00048 J	0.135 J	< 0.17	0.332	0.438	6.75	0.459	0.352	< 0.15	0.0846 J	< 0.00012	1.22 J
Dibromochloromethane	mg/kg	< 0.00017	< 0.0088	< 0.22	< 0.0082	< 0.011	< 0.091	< 0.0094	< 0.0082	< 0.19	< 0.0094	< 0.00015	< 0.1
Dichlorodifluoromethane	mg/kg	< 0.00024	< 0.012	< 0.31	< 0.011	< 0.015	< 0.13	< 0.013	< 0.011	< 0.27	< 0.013	< 0.00021	< 0.14
Ethylbenzene	mg/kg	0.162	16.9	131	52.6	77.3	108	9.22	27.2	137	7.32	0.008	203
Freon 113	mg/kg	< 0.00045	< 0.023	< 0.59	< 0.022	< 0.028	< 0.24	< 0.025	< 0.022	< 0.51	< 0.025	< 0.0004	< 0.27
Isopropylbenzene	mg/kg	0.0369	2.23	12.3	8.29	10.4	11.4	0.914	3.24	13.4	1.96	0.0026 J	30.7
Methyl Acetate	mg/kg	< 0.0027	< 0.14	< 3.6	< 0.13	< 0.17	< 1.4	< 0.15	< 0.13	< 3.1	< 0.15	< 0.0024	< 1.6
Methyl Tert Butyl Ether	mg/kg	< 0.00024	< 0.013	< 0.32	< 0.012	< 0.015	< 0.13	< 0.013	< 0.012	< 0.28	< 0.013	< 0.00022	< 0.14
Methylcyclohexane	mg/kg	0.0024 J	0.61	2.52 J	1.82	2.25	12.7	0.984	1.42	1.35 J	0.316	0.00066 J	8.12
Methylene chloride	mg/kg	0.0019 J	< 0.068	< 1.7	< 0.064	0.125 J	< 0.7	< 0.073	< 0.064	< 1.5	< 0.073	0.0023 J	< 0.78
Styrene	mg/kg	< 0.000095	< 0.0049	< 0.13	< 0.0046	< 0.006	< 0.051	< 0.0053	< 0.0046	< 0.11	< 0.0053	< 0.000086	< 0.057
Tetrachloroethene	mg/kg	< 0.00018	< 0.0092	< 0.24	< 0.0086	< 0.011	< 0.095	< 0.0099	< 0.0086	< 0.2	< 0.0099	< 0.00016	< 0.11
Toluene	mg/kg	3.21	14.3	88.9	24.1	44.3	273	15	21.7	79.2	4.24	0.007	92.4
trans-1,2-Dichloroethene	mg/kg	< 0.00025	< 0.013	< 0.33	< 0.012	< 0.016	< 0.13	< 0.014	< 0.012	< 0.28	< 0.014	< 0.00022	< 0.15
trans-1,3-Dichloropropene	mg/kg	< 0.00016	< 0.0083	< 0.21	< 0.0078	< 0.01	< 0.086	< 0.0089	< 0.0078	< 0.18	< 0.0089	< 0.00015	< 0.096
Trichloroethene	mg/kg	< 0.00018	< 0.0093	< 0.24	< 0.0087	0.0493 J	< 0.096	< 0.01	< 0.0087	< 0.21	< 0.01	< 0.00016	< 0.11
Trichlorofluoromethane	mg/kg	< 0.00031	< 0.016	< 0.41	< 0.015	< 0.02	< 0.17	< 0.017	< 0.015	< 0.35	< 0.017	< 0.00028	< 0.18
Vinyl chloride	mg/kg	< 0.00015	< 0.0077	< 0.2	< 0.0072	< 0.0095	< 0.08	< 0.0083	< 0.0072	< 0.17	< 0.0082	< 0.00014	< 0.089
m,p-Xylene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene (total)	mg/kg	18	110	861	353	434	647	63.6	158	822	50.3	0.0467	1230
Total TIC, Volatile	mg/kg	0.318 J	35.8 J	916 J	48.7 J	427 J	697 J	47.3 J	41.4 J	1290 J	84.1 J	0.0247 J	414 J
VOCs-Leachate													
1,1-Dichloroethene	mg/l	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096
1,2-Dichloroethane	mg/l	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
1,4-Dichlorobenzene	mg/l	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
2-Butanone (MEK)	mg/l	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	0.0342 J	< 0.012	< 0.012	< 0.012	< 0.012	0.0865 J	0.299
Benzene	mg/l	< 0.0012	0.0114	0.002 J	0.0036 J	0.0022 J	0.0646	0.0088	0.0016 J	< 0.0012	< 0.0012	< 0.0012	0.0058
Carbon tetrachloride	mg/l	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Chlorobenzene	mg/l	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Chloroform	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethene	mg/l	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
Trichloroethene	mg/l	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Vinyl chloride	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

Table 12. Summary of Waste Classification Analytical Results, Operabl

Sample ID		WC(051613) BIN 1	WC(051613) BIN 3F	WC(051613) BIN 4P	WC(051613) BIN 5F	WC(052113)-BIN 2F	WC(052313)-BIN 6	WC(052813)-BIN 5	WC (053113)-BIN 1	WC (060313)-BIN 2	WC (060513) 3L	WC (060513) 3R	WC (061413)-BIN 6F
Sample Date		5/16/2013	5/16/2013	5/16/2013	5/16/2013	5/21/2013	5/23/2013	5/28/2013	5/31/2013	6/3/2013	6/5/2013	6/5/2013	6/14/2013
SVOCs													
1,1'-Biphenyl	mg/kg	< 0.0038	0.06 J	0.0746	0.222	< 0.0045	0.0494 J	0.0182 J	0.0491 J	< 0.004	< 0.0043	0.0514 J	0.709
1,2,4,5-TETRACHLOROBENZENE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	< 0.038	< 0.039	< 0.041	< 0.036	< 0.045	< 0.042	< 0.042	< 0.045	< 0.04	< 0.043	< 0.041	< 0.042
2,4,6-Trichlorophenol	mg/kg	< 0.031	< 0.031	< 0.033	< 0.029	< 0.036	< 0.034	< 0.034	< 0.036	< 0.032	< 0.035	< 0.033	< 0.034
2,4-Dichlorophenol	mg/kg	< 0.053	< 0.054	< 0.057	< 0.05	< 0.062	< 0.059	< 0.059	< 0.062	< 0.055	< 0.059	< 0.057	< 0.058
2,4-Dimethylphenol	mg/kg	< 0.056	< 0.056	< 0.059	< 0.052	< 0.065	< 0.061	< 0.061	< 0.064	< 0.058	< 0.062	< 0.059	< 0.061
2,4-Dinitrophenol	mg/kg	< 0.04	< 0.041	< 0.043	< 0.038	< 0.047	< 0.045	< 0.044	< 0.047	< 0.042	< 0.045	< 0.043	< 0.044
2,4-Dinitrotoluene	mg/kg	< 0.014	< 0.015	< 0.015	< 0.014	< 0.017	< 0.016	< 0.016	< 0.017	< 0.015	< 0.016	< 0.015	< 0.016
2,6-Dinitrotoluene	mg/kg	< 0.013	< 0.013	< 0.013	< 0.012	< 0.015	< 0.014	< 0.014	< 0.015	< 0.013	< 0.014	< 0.013	< 0.014
2-Chloronaphthalene	mg/kg	< 0.01	< 0.01	< 0.011	< 0.0097	< 0.012	< 0.011	< 0.011	< 0.012	< 0.011	< 0.011	< 0.011	< 0.011
2-Chlorophenol	mg/kg	< 0.033	< 0.034	< 0.036	< 0.032	< 0.039	< 0.037	< 0.037	< 0.039	< 0.035	< 0.037	< 0.036	< 0.036
2-Methylnaphthalene	mg/kg	0.57	2.77	4.01	2.81	0.0463 J	3.62	0.926	2.32	0.0859	0.0232 J	0.637	10.4
2-Methylphenol	mg/kg	0.0886	< 0.038	< 0.04	< 0.036	< 0.044	< 0.042	< 0.042	0.429	< 0.039	< 0.042	< 0.04	< 0.041
2-Nitroaniline	mg/kg	< 0.015	< 0.015	< 0.015	< 0.014	< 0.017	< 0.016	< 0.016	< 0.017	< 0.015	< 0.016	< 0.016	< 0.016
2-Nitrophenol	mg/kg	< 0.035	< 0.035	< 0.037	< 0.033	< 0.041	< 0.039	< 0.039	< 0.041	< 0.036	< 0.039	< 0.037	< 0.038
3&4-Methylphenol	mg/kg	< 0.042	0.0706	< 0.045	< 0.04	< 0.049	0.464	< 0.046	0.255	< 0.044	< 0.047	< 0.045	0.865
3,3'-Dichlorobenzidine	mg/kg	< 0.0084	< 0.0085	< 0.0089	< 0.0079	< 0.0098	< 0.0093	< 0.0093	< 0.0097	< 0.0087	< 0.0093	< 0.009	< 0.0092
3-Nitroaniline	mg/kg	< 0.013	< 0.013	< 0.014	< 0.012	< 0.015	< 0.015	< 0.015	< 0.015	< 0.014	< 0.015	< 0.014	< 0.014
4,6-Dinitro-o-cresol	mg/kg	< 0.04	< 0.041	< 0.043	< 0.038	< 0.047	< 0.045	< 0.044	< 0.047	< 0.042	< 0.045	< 0.043	< 0.044
4-Bromophenyl phenyl ether	mg/kg	< 0.012	< 0.012	< 0.013	< 0.011	< 0.014	< 0.013	< 0.013	< 0.014	< 0.012	< 0.013	< 0.013	< 0.013
4-Chloro-3-methyl phenol	mg/kg	< 0.033	< 0.033	< 0.035	< 0.031	< 0.039	< 0.036	< 0.036	< 0.038	< 0.034	< 0.037	< 0.035	< 0.036
4-Chloroaniline	mg/kg	< 0.011	< 0.011	< 0.011	< 0.01	< 0.012	< 0.012	< 0.012	< 0.012	< 0.011	< 0.012	< 0.011	< 0.012
4-Chlorophenyl phenyl ether	mg/kg	< 0.01	< 0.01	< 0.011	< 0.0094	< 0.012	< 0.011	< 0.011	< 0.012	< 0.01	< 0.011	< 0.011	< 0.011
4-Nitroaniline	mg/kg	< 0.013	< 0.013	< 0.014	< 0.012	< 0.015	< 0.014	< 0.014	< 0.015	< 0.013	< 0.014	< 0.014	< 0.014
4-Nitrophenol	mg/kg	< 0.056	< 0.056	< 0.059	< 0.053	< 0.065	< 0.062	< 0.062	< 0.065	< 0.058	< 0.062	< 0.06	< 0.061
Acenaphthene	mg/kg	< 0.0096	0.0252 J	0.0338 J	< 0.0091	< 0.011	0.0419	0.0208 J	< 0.011	< 0.0099	< 0.011	< 0.01	< 0.01
Acenaphthylene	mg/kg	< 0.011	0.0233 J	< 0.011	< 0.01	< 0.012	< 0.012	< 0.012	< 0.012	< 0.011	< 0.012	< 0.011	< 0.012
Acetophenone	mg/kg	< 0.0058	< 0.0059	< 0.0062	< 0.0055	0.0375 J	< 0.0064	< 0.0064	< 0.0068	< 0.006	< 0.0065	< 0.0062	< 0.0064
Anthracene	mg/kg	< 0.012	0.0242 J	0.0227 J	0.0131 J	< 0.014	0.0162 J	0.0369	< 0.013	0.0143 J	< 0.013	< 0.012	0.03 J
Atrazine	mg/kg	< 0.0065	< 0.0066	< 0.0069	< 0.0062	< 0.0076	< 0.0072	< 0.0072	< 0.0076	< 0.0068	< 0.0072	< 0.007	< 0.0071
Benzaldehyde	mg/kg	< 0.0076	< 0.0077	< 0.0081	< 0.0072	< 0.0089	< 0.0084	< 0.0084	< 0.0088	< 0.0079	< 0.0085	< 0.0081	< 0.0083
Benzo(a)anthracene	mg/kg	0.0293 J	0.0632	0.0625	0.0287 J	< 0.013	0.034 J	0.0535	0.0275 J	0.0418	< 0.012	< 0.012	< 0.012
Benzo(a)pyrene	mg/kg	0.0239 J	0.0618	0.0583	0.0246 J	< 0.012	< 0.011	0.0503	< 0.012	0.038	< 0.011	< 0.011	< 0.011
Benzo(b)fluoranthene	mg/kg	0.034	0.0835	0.0795	0.0299 J	< 0.013	< 0.012	0.0592	< 0.013	0.0602	< 0.012	< 0.012	< 0.012
Benzo(g,h,i)perylene	mg/kg	0.0182 J	0.0509	0.054	0.0211 J	< 0.014	< 0.014	0.0198 J	< 0.014	0.0309 J	< 0.014	< 0.013	< 0.013
Benzo(k)fluoranthene	mg/kg	0.0132 J	0.0268 J	0.0269 J	< 0.012	< 0.015	< 0.014	0.0188 J	< 0.014	0.0219 J	< 0.014	< 0.013	< 0.014
bis(2-Chloroethoxy)methane	mg/kg	< 0.013	< 0.013	< 0.014	< 0.013	< 0.016	< 0.015	< 0.015	< 0.015	< 0.014	< 0.015	< 0.014	< 0.015
bis(2-Chloroethyl)ether	mg/kg	< 0.01	< 0.01	< 0.011	< 0.0094	< 0.012	< 0.011	< 0.011	< 0.012	< 0.01	< 0.011	< 0.011	< 0.011
bis(2-Chloroisopropyl)ether	mg/kg	< 0.0098	< 0.0099	< 0.01	< 0.0093	< 0.011	< 0.011	< 0.011	< 0.011	< 0.01	< 0.011	< 0.01	< 0.011
bis(2-Ethylhexyl)phthalate	mg/kg	10.8	6.22	9.74	1.17	< 0.034	113	44.6	8.27	0.28	0.168	0.246	4.58
Butyl benzyl phthalate	mg/kg	< 0.019	< 0.019	< 0.02	< 0.018	< 0.022	< 0.021	< 0.021	< 0.022	< 0.02	< 0.021	< 0.02	< 0.021
Caprolactam	mg/kg	< 0.01	< 0.011	< 0.011	< 0.0098	< 0.012	< 0.011	< 0.011	< 0.012	< 0.011	< 0.012	< 0.011	< 0.011
Carbazole	mg/kg	< 0.015	< 0.015	< 0.016	< 0.014	< 0.018	< 0.017	< 0.017	< 0.018	< 0.016	< 0.017	< 0.016	< 0.017
CHLOROPHENOLS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	0.0309 J	0.0876	0.0745	0.035	< 0.013	0.0752	0.0793	0.04	0.0542	< 0.012	< 0.012	< 0.012
Dibenzo(a,h)anthracene	mg/kg	< 0.011	< 0.011	< 0.012	< 0.011	< 0.013	< 0.012	< 0.012	< 0.013	< 0.012	< 0.013	< 0.012	< 0.012
Dibenzofuran	mg/kg	< 0.0098	0.0169 J	< 0.01	0.0319 J	< 0.011	< 0.011	< 0.011	< 0.011	< 0.01	< 0.011	< 0.01	< 0.011
Diethyl phthalate	mg/kg	< 0.011	< 0.011	< 0.012	< 0.011	< 0.013	< 0.012	< 0.012	< 0.013	< 0.012	< 0.013	< 0.012	< 0.012
Dimethyl phthalate	mg/kg	< 0.012	0.0806	0.0867	0.106	< 0.014	< 0.013	0.0598 J	0.0485 J	< 0.012	0.0651 J	0.038 J	0.0728
Di-n-butyl phthalate	mg/kg	0.678	0.107	0.134	< 0.0069	< 0.0086	0.279	0.119	0.133	< 0.0076	< 0.0082	< 0.0078	0.263
Di-n-octyl phthalate	mg/kg	< 0.016	< 0.016	< 0.017	< 0.015	< 0.019	< 0.018	< 0.018	< 0.019	< 0.017	< 0.018	< 0.017	< 0.018
Fluoranthene	mg/kg	0.0538	0.125	0.102	0.0452	< 0.017	0.0485	0.139	0.0601	0.0783	0.019 J	0.0166 J	0.0821
Fluorene	mg/kg	< 0.011	0.0339	0.0317 J	0.0347	< 0.013	0.0293 J	0.0243 J	0.0199 J	< 0.011	< 0.012	< 0.012	0.0829
Hexachlorobenzene	mg/kg	< 0.011	< 0.011	< 0.011	< 0.01	< 0.013	< 0.012	< 0.012	< 0.013	< 0.011	< 0.012	< 0.012	< 0.012
Hexachlorobutadiene	mg/kg	< 0.0092	< 0.0093	< 0.0098	< 0.0087	< 0.011	< 0.01	< 0.01	< 0.011	< 0.0095	< 0.01	< 0.0098	< 0.01
Hexachlorocyclopentadiene	mg/kg	< 0.034	< 0.034	< 0.036	< 0.032	< 0.039	< 0.037	< 0.037	< 0.039	< 0.035	< 0.037	< 0.036	< 0.037
Hexachloroethane	mg/kg	< 0.0092	< 0.0093	< 0.0098	< 0.0087	< 0.011	< 0.01	< 0.01	< 0.011	< 0.0095	< 0.01	< 0.0098	< 0.01
Indeno(1,2,3-cd)pyrene	mg/kg	0.0171 J	0.0492	0.0443	0.0187 J	< 0.013	< 0.013	0.0279 J	< 0.013	0.0308 J	< 0.013	< 0.012	< 0.013
Isophorone	mg/kg	< 0.0089	< 0.009	< 0.0095	< 0.0084	< 0.01	< 0.0098	< 0.0098	< 0.01	< 0.0092	< 0.0099	< 0.0095	< 0.0097
Naphthalene	mg/kg	1.89	9.25	8.04	7.27	0.831	11.2	2.33	7.92	0.205	0.0624	2.39	58.3
Nitrobenzene	mg/kg	< 0.0096	< 0.0096	< 0.01	< 0.009	< 0.011	< 0.011	< 0.011	< 0.011	< 0.0099	< 0.011	< 0.01	< 0.01
N-Nitroso-di-n-propylamine	mg/kg	< 0.0081	< 0.0081	< 0.0086	< 0.0076	< 0.0094	< 0.0089	< 0.0089	< 0.0094	< 0.0084	< 0.009	< 0.0086	< 0.0088
N-Nitrosodiphenylamine	mg/kg	< 0.02	0.0956 J	< 0.021	< 0.019	< 0.023	1.48	0.297	< 0.023	< 0.02	< 0.022	< 0.021	< 0.022

Table 12. Summary of Waste Classification Analytical Results, Operable

Sample ID		WC(051613) BIN 1 5/16/2013	WC(051613) BIN 3F 5/16/2013	WC(051613) BIN 4P 5/16/2013	WC(051613) BIN 5F 5/16/2013	WC(052113)-BIN 2F 5/21/2013	WC(052313)-BIN 6 5/23/2013	WC(052813)-BIN 5 5/28/2013	WC (053113)-BIN 1 5/31/2013	WC (060313)-BIN 2 6/3/2013	WC (060513) 3L 6/5/2013	WC (060513) 3R 6/5/2013	WC (061413)-BIN 6F 6/14/2013
Sample Date													
SVOCs cont.													
Pentachlorophenol	mg/kg	< 0.057	< 0.057	< 0.06	< 0.053	< 0.066	0.101 J	< 0.062	< 0.066	< 0.059	< 0.063	< 0.06	< 0.062
Phenanthrene	mg/kg	0.0632	0.148	0.176	0.1	< 0.018	0.157	0.17	0.0698	0.0465	< 0.017	0.0274 J	0.225
Phenol	mg/kg	< 0.035	0.152	< 0.037	< 0.033	< 0.041	0.0818	< 0.038	< 0.04	< 0.036	< 0.039	< 0.037	< 0.038
Pyrene	mg/kg	0.0663	0.189	0.164	< 0.012	< 0.015	0.154	0.134	0.0659	0.0785	0.0318 J	0.0388	0.19
PYRIDINE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total TIC, Semi-Volatile	mg/kg	31.7 J	135 J	203 J	194 J	3.04 J	133 J	41.1 J	119 J	9.93 J	18 J	70.8 J	240 J
SVOCs-Leachate													
1,4-Dichlorobenzene	mg/l	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036
2,4,5-Trichlorophenol	mg/l	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
2,4,6-Trichlorophenol	mg/l	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,4-Dinitrotoluene	mg/l	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043
2-Methylphenol	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
3&4-Methylphenol	mg/l	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	0.0221	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	0.0243
Hexachlorobenzene	mg/l	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034
Hexachlorobutadiene	mg/l	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051
Hexachloroethane	mg/l	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055
Nitrobenzene	mg/l	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042
Pentachlorophenol	mg/l	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
PYRIDINE	mg/l	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032
PCBs													
Aroclor 1016	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals-Leachate													
Arsenic	mg/l	< 0.00097	0.0065 B	0.0038 B	0.0052 B	0.0089 B	0.0048 B	0.0092 B	0.0048 B	< 0.0015	< 0.0015	< 0.0015	0.0063 B
Barium	mg/l	1.5	3.1	3.1	4.2	3.1	2.29	1.8	2.5	2.5	1.5	2.4	1.6
Cadmium	mg/l	0.0023 B	0.011	0.0045 B	0.0054	0.0088	0.0043 B	0.0043 B	0.011	0.012	0.0017 B	0.0044 B	0.025
Chromium	mg/l	0.0021 B	0.0086 B	0.0079 B	0.0056 B	0.0024 B	0.0018 B	0.0022 B	0.0063 B	0.066	0.0056 B	0.0033 B	0.0099 B
Lead	mg/l	0.26 B	42.6	22.8	1.9	8.3	12.4	61.3	9.7	0.96	0.53	9.5	122
Mercury	mg/l	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089
Selenium	mg/l	0.0034 B	< 0.0024	< 0.0024	0.0035 B	0.0046 B	0.0038 B	< 0.0024	0.0049 B	0.0078 B	0.0086 B	0.0065 B	< 0.0024
Silver	mg/l	< 0.00085	0.0014 B	0.0009 B	< 0.00085	< 0.00085	0.0041 B	0.0011 B	0.0025 B	< 0.0015	< 0.0015	< 0.0015	0.0037 B
Other													
Cyanide Reactivity	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heat Content, BTU	BTU/lb	594	724	1030	649	1620	1360	399	725	1030	833	714	1400
Ignitability (Flashpoint)	Deg F	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS ABOVE C-10	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	su	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide Reactivity	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids, Percent	%	89	92.2	92	91.5	81.8	82.8	82.4	86.6	86.5	86.1	87.4	80.3
TOTAL ORGANIC HALIDES (TOX)	mg/kg	< 22	< 22	< 22	< 22	< 24	< 24	63.3	< 23	< 23	< 23	< 23	< 25

- Notes:
- mg/kg

NA

<

B

D

E

J

R

Bold

Milligrams per kilogram

Not Analyzed

Not detected

Result is between the method detection limit and the re

Result is based on a diluted sample analysis.

Result exceeds calibration range

Estimated Result

Rejected Result

Detection

Table 12. Summary of Waste Classification Analytical Results, Operabl

Sample ID Sample Date		WC (081213) WSA-8 8/12/2013	WC(061113)BIN 2R 6/11/2013	WC(061113)BIN 4 6/11/2013	WC(061113)BIN 5 6/11/2013	WC(061813)-BIN 3L 6/18/2013	WC(061913)-BIN 1 6/19/2013	WC(062013)-BIN 3R 6/20/2013	WC(062013)-BIN 5 6/20/2013	WC(062413)-BIN 4 6/24/2013	WC(062613)-BIN 2 6/26/2013
VOCs											
1,1,1-Trichloroethane	mg/kg	< 0.00012	< 0.006	< 0.006	< 0.000099	< 0.0001	< 0.052	< 0.0001	< 0.000095	< 0.00011	< 0.00012
1,1,2,2-Tetrachloroethane	mg/kg	< 0.00014	< 0.0075	< 0.0074	< 0.00012	< 0.00013	< 0.065	< 0.00012	< 0.00012	< 0.00014	< 0.00014
1,1,2-Trichloroethane	mg/kg	< 0.00019	< 0.0099	< 0.00019	< 0.00016	< 0.00017	< 0.086	< 0.00016	< 0.00016	< 0.00018	< 0.00019
1,1-Dichloroethane	mg/kg	< 0.00015	< 0.0078	< 0.0077	< 0.00013	< 0.00013	< 0.068	< 0.00013	< 0.00012	< 0.00014	< 0.00015
1,1-Dichloroethene	mg/kg	< 0.00028	< 0.015	< 0.014	< 0.00024	< 0.00024	< 0.13	< 0.00024	< 0.00023	< 0.00027	< 0.00028
1,2,3-TRICHLOROBENZENE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	< 0.00015	< 0.0079	< 0.0078	< 0.00013	< 0.00013	< 0.068	< 0.00013	< 0.00012	< 0.00015	< 0.00015
1,2-Dibromo-3-chloropropane	mg/kg	< 0.00098	< 0.051	< 0.05	< 0.00083	< 0.00084	< 0.44	< 0.00084	< 0.0008	< 0.00093	< 0.00097
1,2-Dibromoethane	mg/kg	< 0.00014	< 0.0072	< 0.0071	< 0.00012	< 0.00012	< 0.063	< 0.00012	< 0.00011	< 0.00013	< 0.00014
1,2-Dichlorobenzene	mg/kg	< 0.00021	< 0.011	< 0.011	< 0.00018	< 0.00018	< 0.093	< 0.00018	< 0.00017	< 0.0002	< 0.00021
1,2-Dichloroethane	mg/kg	< 0.00015	< 0.0077	< 0.0076	< 0.00013	< 0.00013	< 0.067	< 0.00013	< 0.00012	< 0.00014	< 0.00015
1,2-Dichloropropane	mg/kg	< 0.00017	< 0.0088	< 0.0086	< 0.00014	< 0.00015	< 0.076	< 0.00015	< 0.00014	< 0.00016	< 0.00017
1,3-Dichlorobenzene	mg/kg	< 0.00021	< 0.011	< 0.011	< 0.00017	< 0.00018	< 0.092	< 0.00018	< 0.00017	< 0.0002	< 0.0002
1,4-Dichlorobenzene	mg/kg	< 0.00019	< 0.01	< 0.0099	< 0.00016	< 0.00017	< 0.087	< 0.00017	< 0.00016	< 0.00018	< 0.00019
1,4-Dioxane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (MEK)	mg/kg	< 0.0026	< 0.14	< 0.13	< 0.0022	< 0.0023	< 1.2	< 0.0023	< 0.0021	< 0.0025	< 0.0026
2-Hexanone	mg/kg	< 0.00068	< 0.035	< 0.035	< 0.00058	< 0.00059	< 0.31	< 0.00059	< 0.00056	< 0.00065	< 0.00068
4-Methyl-2-pentanone(MIBK)	mg/kg	< 0.00082	0.254 J	< 0.042	< 0.0007	0.0018 J	3.13	< 0.00071	< 0.00067	< 0.00078	< 0.00082
Acetone	mg/kg	< 0.096	0.0393	< 0.095	< 0.0016	< 0.0016	< 0.83	< 0.0016	< 0.0015	< 0.0018	< 0.0018
Benzene	mg/kg	< 0.00013	0.0287 J	0.0223 J	< 0.00011	< 0.00011	0.551	< 0.00011	< 0.00011	< 0.00012	< 0.00013
Bromodichloromethane	mg/kg	< 0.00012	< 0.006	< 0.0059	< 0.000098	< 0.0001	< 0.052	< 0.000099	< 0.000094	< 0.00011	< 0.00011
Bromoform	mg/kg	< 0.00017	< 0.0086	< 0.0085	< 0.00014	< 0.00014	< 0.074	< 0.00014	< 0.00014	< 0.00016	< 0.00016
Bromomethane	mg/kg	< 0.0003	< 0.016	< 0.015	< 0.00025	< 0.00026	< 0.13	< 0.00026	< 0.00024	< 0.00029	< 0.0003
Carbon disulfide	mg/kg	< 0.00013	< 0.0067	< 0.0066	< 0.00011	< 0.00011	< 0.058	< 0.00011	< 0.0001	< 0.00012	< 0.00013
Carbon tetrachloride	mg/kg	< 0.00015	< 0.0076	< 0.0075	< 0.00012	< 0.00013	< 0.066	< 0.00013	< 0.00012	< 0.00014	< 0.00014
Chlorobenzene	mg/kg	< 0.00012	< 0.0061	< 0.0061	< 0.0001	< 0.0001	< 0.053	< 0.0001	< 0.000097	< 0.00011	< 0.00012
CHLOROBROMOMETHANE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	< 0.00025	< 0.013	< 0.013	< 0.00021	< 0.00022	< 0.11	< 0.00021	< 0.0002	< 0.00024	< 0.00025
Chloroform	mg/kg	< 0.000091	< 0.0047	< 0.0046	< 0.000077	< 0.000078	< 0.041	< 0.000078	< 0.000074	< 0.000086	< 0.00009
Chloromethane	mg/kg	< 0.0002	< 0.011	< 0.01	< 0.00017	< 0.00018	< 0.092	< 0.00018	< 0.00017	< 0.00019	< 0.0002
cis-1,2-Dichloroethene	mg/kg	< 0.0002	< 0.01	< 0.01	< 0.00017	< 0.00017	< 0.09	< 0.00017	< 0.00016	< 0.00019	< 0.0002
cis-1,3-Dichloropropene	mg/kg	< 0.00015	< 0.0079	< 0.0078	< 0.00013	< 0.00013	< 0.068	< 0.00013	< 0.00012	< 0.00015	< 0.00015
Cyclohexane	mg/kg	< 0.00014	0.0812 J	0.0974 J	< 0.00012	< 0.00012	1.58 J	< 0.00012	< 0.00011	< 0.00013	< 0.00013
Dibromochloromethane	mg/kg	< 0.00018	< 0.0093	< 0.0092	< 0.00015	< 0.00016	< 0.081	< 0.00016	< 0.00015	< 0.00017	< 0.00018
Dichlorodifluoromethane	mg/kg	< 0.00025	< 0.013	< 0.013	< 0.00021	< 0.00022	< 0.11	< 0.00022	< 0.0002	< 0.00024	< 0.00025
Ethylbenzene	mg/kg	0.00067 J	19.6	12.6	0.0012	0.0195	294	0.00051 J	0.0108	0.0234	0.0004 J
Freon 113	mg/kg	< 0.00047	< 0.024	< 0.024	< 0.0004	< 0.00041	< 0.21	< 0.00041	< 0.00039	< 0.00045	< 0.00047
Isopropylbenzene	mg/kg	0.00046 J	3.06	2.76	0.00027 J	0.0054	0.0021 J	0.00032 J	0.0045 J	0.0021 J	< 0.000081
Methyl Acetate	mg/kg	< 0.0029	< 0.15	< 0.15	< 0.0024	< 0.0025	< 1.3	< 0.0025	< 0.0023	< 0.0027	< 0.0028
Methyl Tert Butyl Ether	mg/kg	< 0.00026	< 0.013	< 0.013	< 0.00022	< 0.00022	< 0.12	< 0.00022	< 0.00021	< 0.00025	< 0.00026
Methylcyclohexane	mg/kg	< 0.00019	0.495	0.782	< 0.00016	0.00056 J	7.86	< 0.00016	0.00031 J	< 0.00018	< 0.00018
Methylene chloride	mg/kg	0.0039 J	< 0.072	< 0.071	0.0068	0.0049	< 0.63	0.0013 J	0.0013 J	0.0041 J	< 0.0014
Styrene	mg/kg	< 0.0001	< 0.0052	< 0.0051	< 0.000086	< 0.000087	< 0.045	< 0.000087	< 0.000082	< 0.000096	< 0.0001
Tetrachloroethene	mg/kg	< 0.00019	< 0.0098	< 0.0097	< 0.00016	< 0.00016	< 0.085	< 0.00016	< 0.00015	< 0.00018	< 0.00019
Toluene	mg/kg	0.0014	7.54	5.15	0.0005 J	0.0062	118	0.0006 J	0.0065	0.0098	0.00022 J
trans-1,2-Dichloroethene	mg/kg	< 0.00026	< 0.014	< 0.013	< 0.00022	< 0.00023	< 0.12	< 0.00023	< 0.00021	< 0.00025	< 0.00026
trans-1,3-Dichloropropene	mg/kg	< 0.00017	< 0.0088	< 0.0087	< 0.00014	< 0.00015	< 0.076	< 0.00015	< 0.00014	< 0.00016	< 0.00017
Trichloroethene	mg/kg	< 0.00019	< 0.0099	< 0.0098	< 0.00016	< 0.00017	< 0.086	< 0.00016	< 0.00016	< 0.00018	< 0.00019
Trichlorofluoromethane	mg/kg	< 0.00033	< 0.017	< 0.017	< 0.00028	< 0.00028	< 0.15	< 0.00028	< 0.00027	< 0.00031	< 0.00032
Vinyl chloride	mg/kg	< 0.00016	< 0.0082	< 0.0081	< 0.00013	< 0.00014	< 0.071	< 0.00014	< 0.00013	< 0.00015	< 0.00016
m,p-Xylene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene (total)	mg/kg	0.0042	134	92	0.009	0.178	1550	0.0225	0.0955	0.295	0.003
Total TIC, Volatile	mg/kg	NA	112 J	132 J	0.0531 J	0.342 J	731 J	0.0903 J	0.111 J	0.492 J	0
VOCs-Leachate											
1,1-Dichloroethene	mg/l	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096
1,2-Dichloroethane	mg/l	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
1,4-Dichlorobenzene	mg/l	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
2-Butanone (MEK)	mg/l	< 0.012	0.173	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Benzene	mg/l	< 0.0012	0.0019 J	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Carbon tetrachloride	mg/l	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Chlorobenzene	mg/l	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Chloroform	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethene	mg/l	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
Trichloroethene	mg/l	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Vinyl chloride	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

Table 12. Summary of Waste Classification Analytical Results, Operabl

Sample ID		WC (081213) WSA-8	WC(061113)BIN 2R	WC(061113)BIN 4	WC(061113)BIN 5	WC(061813)-BIN 3L	WC(061913)-BIN 1	WC(062013)-BIN 3R	WC(062013)-BIN 5	WC(062413)-BIN 4	WC(062613)-BIN 2
Sample Date		8/12/2013	6/11/2013	6/11/2013	6/11/2013	6/18/2013	6/19/2013	6/20/2013	6/20/2013	6/24/2013	6/26/2013
SVOCS											
1,1'-Biphenyl	mg/kg	< 0.0044	0.0371 J	0.0476 J	< 0.0043	< 0.0041	< 0.0038	0.0155 J	< 0.0042	< 0.0043	< 0.0082
1,2,4,5-TETRACHLOROBENZENE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	< 0.044	< 0.039	< 0.044	< 0.043	< 0.041	< 0.038	< 0.038	< 0.042	< 0.043	< 0.082
2,4,6-Trichlorophenol	mg/kg	< 0.036	< 0.032	< 0.036	< 0.035	< 0.033	< 0.031	< 0.031	< 0.034	< 0.034	< 0.066
2,4-Dichlorophenol	mg/kg	< 0.062	< 0.054	< 0.061	< 0.06	< 0.057	< 0.053	< 0.053	< 0.058	< 0.059	< 0.11
2,4-Dimethylphenol	mg/kg	< 0.064	< 0.057	< 0.064	< 0.063	< 0.059	< 0.056	< 0.055	< 0.061	< 0.062	< 0.12
2,4-Dinitrophenol	mg/kg	< 0.047	< 0.041	< 0.046	< 0.045	< 0.043	< 0.04	< 0.04	< 0.044	< 0.045	< 0.086
2,4-Dinitrotoluene	mg/kg	< 0.017	< 0.015	< 0.017	< 0.016	< 0.015	< 0.014	< 0.014	< 0.016	< 0.016	< 0.031
2,6-Dinitrotoluene	mg/kg	< 0.015	< 0.013	< 0.014	< 0.014	< 0.013	< 0.013	< 0.012	< 0.014	< 0.014	< 0.027
2-Chloronaphthalene	mg/kg	< 0.012	< 0.01	< 0.012	< 0.012	< 0.011	< 0.01	< 0.01	< 0.011	< 0.011	< 0.022
2-Chlorophenol	mg/kg	< 0.039	< 0.034	< 0.038	< 0.038	< 0.036	< 0.033	< 0.033	< 0.036	< 0.037	< 0.071
2-Methylnaphthalene	mg/kg	0.0527 J	0.426	0.595	< 0.021	0.0263 J	5.53	0.2	0.0432 J	0.039 J	< 0.039
2-Methylphenol	mg/kg	< 0.044	< 0.038	< 0.043	< 0.042	< 0.04	< 0.038	< 0.037	< 0.041	< 0.042	< 0.08
2-Nitroaniline	mg/kg	< 0.017	< 0.015	< 0.017	< 0.016	< 0.016	< 0.015	< 0.014	< 0.016	< 0.016	< 0.031
2-Nitrophenol	mg/kg	< 0.041	< 0.036	< 0.04	< 0.039	< 0.038	< 0.035	< 0.035	< 0.038	< 0.039	< 0.075
3&4-Methylphenol	mg/kg	0.43	< 0.043	< 0.048	< 0.047	< 0.045	< 0.042	< 0.042	< 0.046	< 0.047	< 0.089
3,3'-Dichlorobenzidine	mg/kg	< 0.0097	< 0.0086	< 0.0096	< 0.0095	< 0.009	< 0.0084	< 0.0083	< 0.0092	< 0.0093	< 0.018
3-Nitroaniline	mg/kg	< 0.015	< 0.013	< 0.015	< 0.015	< 0.014	< 0.013	< 0.013	< 0.014	< 0.015	< 0.028
4,6-Dinitro-o-cresol	mg/kg	< 0.047	< 0.041	< 0.046	< 0.045	< 0.043	< 0.04	< 0.04	< 0.044	< 0.045	< 0.086
4-Bromophenyl phenyl ether	mg/kg	< 0.014	< 0.012	< 0.014	< 0.014	< 0.013	< 0.012	< 0.012	< 0.013	< 0.013	< 0.026
4-Chloro-3-methyl phenol	mg/kg	< 0.038	< 0.034	< 0.038	< 0.037	< 0.035	< 0.033	< 0.033	< 0.036	< 0.037	< 0.07
4-Chloroaniline	mg/kg	< 0.012	< 0.011	< 0.012	< 0.012	< 0.011	< 0.011	< 0.01	< 0.012	< 0.012	< 0.023
4-Chlorophenyl phenyl ether	mg/kg	< 0.012	< 0.01	< 0.011	< 0.011	< 0.011	< 0.01	< 0.0098	< 0.011	< 0.011	< 0.021
4-Nitroaniline	mg/kg	< 0.015	< 0.013	< 0.015	< 0.015	< 0.014	< 0.013	< 0.013	< 0.014	< 0.014	< 0.027
4-Nitrophenol	mg/kg	< 0.065	< 0.057	< 0.064	< 0.063	< 0.06	< 0.056	< 0.055	< 0.061	< 0.062	< 0.12
Acenaphthene	mg/kg	0.129	< 0.0098	< 0.011	< 0.011	< 0.01	< 0.0096	< 0.0095	< 0.01	< 0.011	< 0.02
Acenaphthylene	mg/kg	0.0951	< 0.011	< 0.012	< 0.012	< 0.011	< 0.011	0.0547	< 0.012	0.0265 J	< 0.023
Acetophenone	mg/kg	< 0.0067	< 0.0059	< 0.0067	< 0.0066	< 0.0062	< 0.0058	< 0.0058	< 0.0063	< 0.0064	< 0.012
Anthracene	mg/kg	0.478	< 0.012	< 0.013	< 0.013	< 0.012	< 0.012	0.0615	< 0.013	0.0302 J	< 0.025
Atrazine	mg/kg	< 0.0076	< 0.0066	< 0.0075	< 0.0073	< 0.007	< 0.0065	< 0.0064	< 0.0071	< 0.0072	< 0.014
Benzaldehyde	mg/kg	< 0.0088	< 0.0077	< 0.0087	< 0.0086	< 0.0081	< 0.0076	< 0.0075	< 0.0083	< 0.0084	< 0.016
Benzo(a)anthracene	mg/kg	0.916	0.0138 J	< 0.012	0.033 J	< 0.012	< 0.011	0.254	0.0431	0.0824	0.0974
Benzo(a)pyrene	mg/kg	0.752	< 0.01	< 0.012	0.0291 J	< 0.011	< 0.01	0.23	0.0444	0.071	0.082
Benzo(b)fluoranthene	mg/kg	0.969	< 0.011	< 0.013	0.0397	< 0.012	< 0.011	0.373	0.0604	0.0772	0.109
Benzo(g,h,i)perylene	mg/kg	0.439	< 0.013	< 0.014	0.0244 J	< 0.013	< 0.012	0.149	0.0317 J	0.049	0.0606 J
Benzo(k)fluoranthene	mg/kg	0.35	< 0.013	< 0.014	0.0155 J	< 0.013	< 0.012	0.124	0.0242 J	0.0687	0.0517 J
bis(2-Chloroethoxy)methane	mg/kg	< 0.015	< 0.014	< 0.015	< 0.015	< 0.014	< 0.013	< 0.013	< 0.015	< 0.015	< 0.028
bis(2-Chloroethyl)ether	mg/kg	< 0.012	< 0.01	< 0.011	< 0.011	< 0.011	< 0.01	< 0.0098	< 0.011	< 0.011	< 0.021
bis(2-Chloroisopropyl)ether	mg/kg	< 0.011	< 0.01	< 0.011	< 0.011	< 0.011	< 0.0098	< 0.0097	< 0.011	< 0.011	< 0.021
bis(2-Ethylhexyl)phthalate	mg/kg	0.579	0.21	0.273	0.0923	0.329	31.7	2.79	0.319	0.237	< 0.062
Butyl benzyl phthalate	mg/kg	< 0.022	< 0.019	< 0.022	< 0.022	< 0.02	< 0.019	< 0.019	< 0.021	< 0.021	< 0.041
Caprolactam	mg/kg	< 0.012	< 0.011	< 0.012	< 0.012	< 0.011	< 0.01	< 0.01	< 0.011	< 0.012	< 0.022
Carbazole	mg/kg	0.123	< 0.016	< 0.018	< 0.017	< 0.016	< 0.015	< 0.015	< 0.017	< 0.017	< 0.033
CHLOROPHENOLS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	0.918	0.0234 J	< 0.013	0.0341 J	< 0.012	< 0.011	0.267	0.0475	0.0807	0.112
Dibenzo(a,h)anthracene	mg/kg	0.139	< 0.011	< 0.013	< 0.013	< 0.012	< 0.011	0.0491	< 0.012	< 0.012	< 0.024
Dibenzofuran	mg/kg	0.119	< 0.01	< 0.011	< 0.011	< 0.011	< 0.0098	< 0.0097	< 0.011	< 0.011	< 0.021
Diethyl phthalate	mg/kg	< 0.013	< 0.011	< 0.013	< 0.013	< 0.012	< 0.011	< 0.011	< 0.012	< 0.012	< 0.024
Dimethyl phthalate	mg/kg	< 0.013	< 0.012	< 0.013	< 0.013	< 0.012	< 0.012	< 0.012	< 0.013	< 0.013	< 0.025
Di-n-butyl phthalate	mg/kg	< 0.0085	< 0.0075	0.0189 J	< 0.0083	< 0.0079	3.04	< 0.0073	< 0.008	< 0.0081	< 0.016
Di-n-octyl phthalate	mg/kg	< 0.019	< 0.016	< 0.018	< 0.018	< 0.017	< 0.016	< 0.016	< 0.018	< 0.018	< 0.034
Fluoranthene	mg/kg	1.98	0.028 J	0.0203 J	0.0586	< 0.016	< 0.015	0.441	0.086	0.165	0.19
Fluorene	mg/kg	0.156	< 0.011	< 0.012	< 0.012	< 0.012	< 0.011	0.0136 J	< 0.012	< 0.012	< 0.023
Hexachlorobenzene	mg/kg	< 0.012	< 0.011	< 0.012	< 0.012	< 0.012	< 0.011	< 0.011	< 0.012	< 0.012	< 0.023
Hexachlorobutadiene	mg/kg	< 0.011	< 0.0094	< 0.011	< 0.01	< 0.0098	< 0.0092	< 0.0091	< 0.01	< 0.01	< 0.02
Hexachlorocyclopentadiene	mg/kg	< 0.039	< 0.034	< 0.039	< 0.038	< 0.036	< 0.034	< 0.033	< 0.037	< 0.037	< 0.072
Hexachloroethane	mg/kg	< 0.011	< 0.0094	< 0.011	< 0.0098	< 0.01	< 0.0092	< 0.0091	< 0.01	< 0.01	< 0.02
Indeno(1,2,3-cd)pyrene	mg/kg	0.492	< 0.012	< 0.013	0.0224 J	< 0.012	< 0.011	0.162	0.0281 J	0.0434	0.0621 J
Isophorone	mg/kg	< 0.01	< 0.0091	< 0.01	< 0.01	< 0.0095	< 0.0089	< 0.0088	< 0.0097	< 0.0099	< 0.019
Naphthalene	mg/kg	0.0611	1.78	2.31	0.0628	0.0767	35.2	0.554	0.128	0.107	< 0.019
Nitrobenzene	mg/kg	< 0.011	< 0.0097	< 0.011	< 0.011	< 0.01	< 0.0096	< 0.0095	< 0.01	< 0.011	< 0.02
N-Nitroso-di-n-propylamine	mg/kg	< 0.0094	< 0.0082	< 0.0092	< 0.0091	< 0.0086	< 0.0081	< 0.008	< 0.0088	< 0.0089	< 0.017
N-Nitrosodiphenylamine	mg/kg	< 0.023	< 0.02	< 0.023	< 0.022	< 0.021	< 0.02	0.0524 J	< 0.022	< 0.022	< 0.042

Table 12. Summary of Waste Classification Analytical Results, Operable

Sample ID		WC (081213) WSA-8	WC(061113)BIN 2R	WC(061113)BIN 4	WC(061113)BIN 5	WC(061813)-BIN 3L	WC(061913)-BIN 1	WC(062013)-BIN 3R	WC(062013)-BIN 5	WC(062413)-BIN 4	WC(062613)-BIN 2
Sample Date		8/12/2013	6/11/2013	6/11/2013	6/11/2013	6/18/2013	6/19/2013	6/20/2013	6/20/2013	6/24/2013	6/26/2013
SVOCs cont.											
Pentachlorophenol	mg/kg	< 0.066	< 0.058	< 0.065	< 0.064	< 0.061	< 0.057	< 0.056	< 0.062	< 0.063	< 0.12
Phenanthrene	mg/kg	1.62	0.0413	0.0477	0.0285 J	0.0177 J	< 0.015	0.123	0.0439	0.0659	0.0799
Phenol	mg/kg	< 0.04	< 0.035	< 0.04	< 0.039	< 0.037	< 0.035	< 0.034	< 0.038	< 0.038	< 0.074
Pyrene	mg/kg	1.71	0.0289 J	0.0232 J	0.0574	0.0208 J	< 0.013	0.4	0.0778	0.122	0.172
PYRIDINE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total TIC, Semi-Volatile	mg/kg	15.9 J	57.8 J	84.3 J	4.58 J	4.24 J	111 J	28.4 J	4.44 J	9.66 J	0
SVOCs-Leachate											
1,4-Dichlorobenzene	mg/l	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036
2,4,5-Trichlorophenol	mg/l	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
2,4,6-Trichlorophenol	mg/l	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,4-Dinitrotoluene	mg/l	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043
2-Methylphenol	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
3&4-Methylphenol	mg/l	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093
Hexachlorobenzene	mg/l	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034
Hexachlorobutadiene	mg/l	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051
Hexachloroethane	mg/l	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055
Nitrobenzene	mg/l	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042
Pentachlorophenol	mg/l	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
PYRIDINE	mg/l	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032
PCBs											
Aroclor 1016	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals-Leachate											
Arsenic	mg/l	< 0.0015	0.0078 B	0.005 B	0.0022 B	< 0.0015	0.005 B	0.0098 B	< 0.0015	0.0033 B	< 0.0015
Barium	mg/l	0.087 B	1.7	1.8	0.7 B	1.2	1.8	1.8	0.84 B	1.3	0.72 B
Cadmium	mg/l	< 0.00024	0.0033 B	0.0021 B	0.0008 B	0.0014 B	0.0098	0.0065	0.0012 B	0.0017 B	0.0026 B
Chromium	mg/l	0.0011 B	0.0072 B	0.015	0.0013 B	0.0013 B	0.0038 B	0.0018 B	0.0012 B	0.002 B	< 0.00092
Lead	mg/l	0.017 B	4.2	1.5	0.095 B	1.2 B	9.6	33.4	0.17 B	0.17 B	0.072 B
Mercury	mg/l	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089
Selenium	mg/l	< 0.0024	0.0062 B	0.0041 B	0.004 B	< 0.0024	< 0.0024	< 0.0024	< 0.0024	0.0088 B	0.0082 B
Silver	mg/l	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
Other											
Cyanide Reactivity	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heat Content, BTU	BTU/lb	2600	1770	1620	1950	10400	3490	976	1100	< 500	960
Ignitability (Flashpoint)	Deg F	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS ABOVE C-10	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	su	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide Reactivity	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids, Percent	%	82.8	87.1	83.9	85	86.4	87.4	88.1	85.9	88.6	86.9
TOTAL ORGANIC HALIDES (TOX)	mg/kg	< 12	< 23	< 24	< 23	< 23	< 23	< 23	46.7	< 22	85.9

- Notes:
- mg/kg

NA

<

B

D

E

J

R

Bold
- Milligrams per kilogram

Not Analyzed

Not detected

Result is between the method detection limit and the re

Result is based on a diluted sample analysis.

Result exceeds calibration range

Estimated Result

Rejected Result

Detection

Table 12. Summary of Waste Classification Analytical Results, Operabl

Sample ID Sample Date		WC(062713)IF 6/27/2013	WC(062813)-BIN 6 6/28/2013	WC(070213)-BIN 3F 7/2/2013	WC(070213)-BIN 5 7/2/2013	WC(071013) 8F 7/10/2013	WC(071213) 1 7/12/2013	WC(071213) 5 7/12/2013	WC(071513) 2 7/15/2013	WC(071513) 3F 7/15/2013	WC(071713)1 7/17/2013	WC(071713)7 7/17/2013	WC(071813)WTC 7/18/2013	WC(071813)WTSL 7/18/2013
VOCs														
1,1,1-Trichloroethane	mg/kg	< 0.0064	< 0.000098	< 0.0001	< 0.0001	< 0.034	< 0.0059	< 0.00012	< 0.0001	< 0.0065	< 0.00013	< 0.00011	< 0.0004	< 0.0033
1,1,2,2-Tetrachloroethane	mg/kg	< 0.0079	< 0.00012	< 0.00013	< 0.00013	< 0.042	< 0.0074	< 0.00015	< 0.00013	< 0.0081	< 0.00016	< 0.00013	< 0.0005	< 0.0041
1,1,2-Trichloroethane	mg/kg	< 0.01	< 0.00016	< 0.00017	< 0.00017	< 0.056	< 0.0097	< 0.0002	< 0.00017	< 0.011	< 0.00021	< 0.00018	< 0.00066	< 0.0055
1,1-Dichloroethane	mg/kg	< 0.0082	< 0.00013	< 0.00013	< 0.00014	< 0.044	< 0.0076	< 0.00016	< 0.00013	< 0.0084	< 0.00016	< 0.00014	< 0.00052	< 0.0043
1,1-Dichloroethene	mg/kg	< 0.015	< 0.00024	< 0.00025	< 0.00025	< 0.082	< 0.014	< 0.0003	< 0.00024	< 0.016	< 0.0003	< 0.00026	< 0.00098	< 0.0081
1,2,3-TRICHLOROBENZENE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	< 0.0084	< 0.00013	< 0.00013	< 0.00014	< 0.044	< 0.0078	< 0.00016	< 0.00013	< 0.0085	< 0.00016	< 0.00014	< 0.00053	< 0.0044
1,2-Dibromo-3-chloropropane	mg/kg	< 0.053	< 0.00083	< 0.00086	< 0.00088	< 0.28	< 0.05	< 0.001	< 0.00085	< 0.055	< 0.0011	< 0.0009	< 0.0034	< 0.028
1,2-Dibromoethane	mg/kg	< 0.0076	< 0.00012	< 0.00012	< 0.00013	< 0.041	< 0.0071	< 0.00015	< 0.00012	< 0.0078	< 0.00015	< 0.00013	< 0.00049	< 0.004
1,2-Dichlorobenzene	mg/kg	< 0.011	< 0.00018	< 0.00018	< 0.00019	< 0.06	< 0.011	< 0.00022	< 0.00018	< 0.012	< 0.00022	< 0.00019	< 0.00072	< 0.0059
1,2-Dichloroethane	mg/kg	< 0.0081	< 0.00013	< 0.00013	< 0.00013	< 0.043	< 0.0075	< 0.00016	< 0.00013	< 0.0083	< 0.00016	< 0.00014	< 0.00052	< 0.0042
1,2-Dichloropropane	mg/kg	< 0.0093	< 0.00014	< 0.00015	< 0.00015	< 0.049	< 0.0086	< 0.00018	< 0.00015	< 0.0094	< 0.00018	< 0.00016	< 0.00059	< 0.0048
1,3-Dichlorobenzene	mg/kg	< 0.011	< 0.00017	< 0.00018	< 0.00018	< 0.06	< 0.01	< 0.00022	< 0.00018	< 0.011	< 0.00022	< 0.00019	< 0.00071	< 0.0059
1,4-Dichlorobenzene	mg/kg	< 0.011	< 0.00016	< 0.00017	< 0.00017	< 0.056	< 0.0098	< 0.0002	< 0.00017	< 0.011	< 0.00021	< 0.00018	< 0.00067	< 0.0055
1,4-Dioxane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (MEK)	mg/kg	< 0.14	< 0.0022	0.0233	< 0.0024	< 0.76	< 0.13	< 0.0028	0.078	< 0.15	< 0.0028	< 0.0024	< 0.0091	0.613
2-Hexanone	mg/kg	< 0.037	< 0.00058	< 0.0006	< 0.00061	< 0.2	< 0.035	< 0.00072	< 0.00059	< 0.038	< 0.00074	< 0.00063	< 0.0024	< 0.019
4-Methyl-2-pentanone(MIBK)	mg/kg	0.6	< 0.0007	0.145	< 0.00074	0.781 J	0.239 J	< 0.00087	< 0.00072	0.42	< 0.00089	< 0.00076	< 0.0029	< 0.024
Acetone	mg/kg	0.33 J	< 0.0016	0.351 E	< 0.0015	3.07 J	0.33 J	< 0.0019	0.758	0.215 J	< 0.002	< 0.0017	66.5	1.78
Benzene	mg/kg	0.0334 J	< 0.00011	0.0046	< 0.00012	0.0742 J	< 0.0066	< 0.00014	< 0.00011	0.0263 J	< 0.00014	< 0.00012	< 0.00045	< 0.0037
Bromodichloromethane	mg/kg	< 0.0063	< 0.000097	< 0.0001	< 0.0001	< 0.034	< 0.0059	< 0.00012	< 0.0001	< 0.0064	< 0.00012	< 0.00011	< 0.0004	< 0.0033
Bromoform	mg/kg	< 0.0091	< 0.00014	< 0.00015	< 0.00015	< 0.048	< 0.0084	< 0.00017	< 0.00014	< 0.0093	< 0.00018	< 0.00015	< 0.00058	< 0.0047
Bromomethane	mg/kg	< 0.016	< 0.00025	< 0.00026	< 0.00027	< 0.087	< 0.015	< 0.00031	< 0.00026	< 0.017	< 0.00032	< 0.00028	< 0.001	< 0.0086
Carbon disulfide	mg/kg	< 0.007	< 0.00011	< 0.00011	< 0.00012	< 0.037	< 0.0065	< 0.00013	< 0.00011	< 0.0072	< 0.00014	< 0.00012	< 0.00045	0.0288 J
Carbon tetrachloride	mg/kg	< 0.008	< 0.00012	< 0.00013	< 0.00013	< 0.042	< 0.0074	< 0.00015	< 0.00013	< 0.0082	< 0.00016	< 0.00013	< 0.00051	< 0.0042
Chlorobenzene	mg/kg	< 0.0065	< 0.0001	< 0.0001	< 0.00011	< 0.034	< 0.006	< 0.00012	< 0.0001	< 0.0066	< 0.00013	< 0.00011	< 0.00041	< 0.0034
CHLOROBROMOMETHANE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	< 0.014	< 0.00021	< 0.00022	< 0.00022	< 0.072	< 0.013	< 0.00026	< 0.00022	< 0.014	< 0.00027	< 0.00023	< 0.00087	< 0.0071
Chloroform	mg/kg	< 0.005	< 0.000077	< 0.000079	< 0.000081	< 0.026	< 0.0046	< 0.000095	< 0.000079	< 0.0051	< 0.000098	< 0.000083	< 0.00032	< 0.0026
Chloromethane	mg/kg	< 0.011	< 0.00017	< 0.00018	< 0.00018	< 0.059	< 0.01	< 0.00021	< 0.00018	< 0.011	< 0.00022	< 0.00019	< 0.00071	< 0.0058
cis-1,2-Dichloroethene	mg/kg	< 0.011	< 0.00017	< 0.00018	< 0.00018	< 0.058	< 0.01	< 0.00021	< 0.00017	< 0.011	< 0.00022	< 0.00018	< 0.0007	< 0.0057
cis-1,3-Dichloropropene	mg/kg	< 0.0084	< 0.00013	< 0.00013	< 0.00014	< 0.044	< 0.0078	< 0.00016	< 0.00013	< 0.0085	< 0.00016	< 0.00014	< 0.00053	< 0.0044
Cyclohexane	mg/kg	0.064 J	< 0.00012	0.004 J	< 0.00012	0.238 J	< 0.0069	< 0.00014	< 0.00012	0.0839 J	< 0.00015	< 0.00013	< 0.00047	< 0.0039
Dibromochloromethane	mg/kg	< 0.0099	< 0.00015	< 0.00016	< 0.00016	< 0.052	< 0.0092	< 0.00019	< 0.00016	< 0.01	< 0.00019	< 0.00017	< 0.00063	< 0.0051
Dichlorodifluoromethane	mg/kg	< 0.014	< 0.00021	< 0.00022	< 0.00022	< 0.073	< 0.013	< 0.00026	< 0.00022	< 0.014	< 0.00027	< 0.00023	< 0.00087	< 0.0071
Ethylbenzene	mg/kg	11.6	0.001	4.81	0.0383	64.6	5.01	< 0.0003	0.00043 J	26.3	< 0.00031	< 0.00027	< 0.001	0.0598
Freon 113	mg/kg	< 0.026	< 0.0004	< 0.00041	< 0.00042	< 0.14	< 0.024	< 0.0005	< 0.00041	< 0.026	< 0.00051	< 0.00043	< 0.0016	< 0.013
Isopropylbenzene	mg/kg	1.93	0.00036 J	0.107	0.0073	9.2	1.12	< 0.000086	< 0.000071	3.27	< 0.000088	< 0.000075	< 0.00028	0.0371 J
Methyl Acetate	mg/kg	< 0.16	< 0.0024	< 0.0025	< 0.0026	< 0.83	< 0.15	< 0.003	< 0.0025	< 0.16	< 0.0031	< 0.0026	< 0.0099	< 0.082
Methyl Tert Butyl Ether	mg/kg	< 0.014	< 0.00022	< 0.00023	< 0.00023	< 0.075	< 0.013	< 0.00027	< 0.00022	< 0.014	< 0.00028	< 0.00024	< 0.0009	< 0.0074
Methylcyclohexane	mg/kg	0.685	< 0.00016	0.0151	0.0014 J	2	0.233 J	< 0.00019	< 0.00016	0.628	< 0.0002	< 0.00017	< 0.00065	0.0085 J
Methylene chloride	mg/kg	< 0.076	< 0.0012	0.0014 J	< 0.0013	< 0.41	< 0.071	< 0.0015	0.0025 J	< 0.078	< 0.0015	0.0016 JB	0.0052 J	0.0532 J
Styrene	mg/kg	< 0.0055	< 0.000085	< 0.000088	< 0.00009	< 0.029	< 0.0051	< 0.00011	< 0.000087	< 0.0056	< 0.00011	< 0.000093	< 0.00035	< 0.0029
Tetrachloroethene	mg/kg	< 0.01	< 0.00016	< 0.00017	< 0.00017	< 0.055	< 0.0096	< 0.0002	< 0.00016	< 0.011	< 0.0002	< 0.00017	< 0.00066	< 0.0054
Toluene	mg/kg	17.5	0.00075 J	1.91	0.0203	35.9	2.41	< 0.00012	0.0016	10.1	< 0.00012	< 0.00011	< 0.0004	< 0.0033
trans-1,2-Dichloroethene	mg/kg	< 0.014	< 0.00022	< 0.00023	< 0.00023	< 0.076	< 0.013	< 0.00027	< 0.00023	< 0.015	< 0.00028	< 0.00024	< 0.00091	< 0.0075
trans-1,3-Dichloropropene	mg/kg	< 0.0093	< 0.00014	< 0.00015	< 0.00015	< 0.05	< 0.0087	< 0.00018	< 0.00015	< 0.0095	< 0.00018	< 0.00016	< 0.00059	< 0.0049
Trichloroethene	mg/kg	< 0.01	< 0.00016	0.00082 J	< 0.00017	< 0.056	< 0.0097	< 0.0002	< 0.00017	0.0169 J	< 0.00021	< 0.00018	< 0.00066	< 0.0055
Trichlorofluoromethane	mg/kg	< 0.018	< 0.00028	< 0.00029	< 0.00029	< 0.095	< 0.017	< 0.00034	< 0.00028	< 0.018	< 0.00035	< 0.0003	< 0.0011	< 0.0093
Vinyl chloride	mg/kg	< 0.0087	< 0.00013	< 0.00014	< 0.00014	< 0.046	< 0.008	< 0.00017	< 0.00014	< 0.0088	< 0.00017	< 0.00015	< 0.00055	< 0.0045
m,p-Xylene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene (total)	mg/kg	103	0.0068	30.4	0.257	423	36.5	0.00035 J	0.0037	158	< 0.00016	0.00066 J	< 0.00053	0.0746
Total TIC, Volatile	mg/kg	84.8 J	0.0214 J	0.469 J	0.284 J	782 J	26.6 J	0	0	41.7 J	0.03 J	0.0201 J	0	9.34 J
VOCs-Leachate														
1,1-Dichloroethene	mg/l	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096
1,2-Dichloroethane	mg/l	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
1,4-Dichlorobenzene	mg/l	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
2-Butanone (MEK)	mg/l	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Benzene	mg/l	< 0.0012	< 0.0012	< 0.0012	< 0.0012	0.0018 J	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Carbon tetrachloride	mg/l	< 0.001												

Table 12. Summary of Waste Classification Analytical Results, Operabl

Sample ID		WC(062713)IF	WC(062813)-BIN 6	WC(070213)-BIN 3F	WC(070213)-BIN 5	WC(071013) 8F	WC(071213) 1	WC(071213) 5	WC(071513) 2	WC(071513) 3F	WC(071713)1	WC(071713)7	WC(071813)WTC	WC(071813)WTSL
Sample Date		6/27/2013	6/28/2013	7/2/2013	7/2/2013	7/10/2013	7/12/2013	7/12/2013	7/15/2013	7/15/2013	7/17/2013	7/17/2013	7/18/2013	7/18/2013
SVOCs														
1,1'-Biphenyl	mg/kg	0.0267 J	< 0.0039	0.0282 J	< 0.0044	0.31	< 0.0043	< 0.0045	< 0.0038	0.0792	< 0.0038	< 0.0041	< 0.0084	< 0.07
1,2,4,5-TETRACHLOROBENZENE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	< 0.042	< 0.039	< 0.041	< 0.044	< 0.041	< 0.043	< 0.045	< 0.038	< 0.044	< 0.038	< 0.041	< 0.084	< 0.7
2,4,6-Trichlorophenol	mg/kg	< 0.034	< 0.032	< 0.033	< 0.035	< 0.033	< 0.035	< 0.036	< 0.031	< 0.036	< 0.031	< 0.033	< 0.068	< 0.57
2,4-Dichlorophenol	mg/kg	< 0.058	< 0.054	< 0.057	< 0.061	< 0.057	< 0.06	< 0.062	< 0.053	< 0.061	< 0.053	< 0.057	< 0.12	< 0.97
2,4-Dimethylphenol	mg/kg	< 0.06	< 0.057	< 0.06	< 0.063	< 0.06	< 0.062	< 0.065	< 0.055	< 0.063	< 0.055	< 0.059	< 0.12	< 1
2,4-Dinitrophenol	mg/kg	< 0.044	< 0.041	< 0.043	< 0.046	< 0.043	< 0.045	< 0.047	< 0.04	< 0.046	< 0.04	< 0.043	< 0.089	< 0.74
2,4-Dinitrotoluene	mg/kg	< 0.016	< 0.015	< 0.016	< 0.016	< 0.015	< 0.016	< 0.017	< 0.014	< 0.017	< 0.014	< 0.015	< 0.032	< 0.26
2,6-Dinitrotoluene	mg/kg	< 0.014	< 0.013	< 0.014	< 0.014	< 0.014	< 0.014	< 0.015	< 0.013	< 0.014	< 0.013	< 0.013	< 0.028	< 0.23
2-Chloronaphthalene	mg/kg	< 0.011	< 0.01	< 0.011	< 0.012	< 0.011	< 0.012	< 0.012	< 0.01	< 0.012	< 0.01	< 0.011	< 0.023	< 0.19
2-Chlorophenol	mg/kg	< 0.036	< 0.034	< 0.036	< 0.038	< 0.036	< 0.038	< 0.039	< 0.033	< 0.038	< 0.033	< 0.036	< 0.073	< 0.61
2-Methylnaphthalene	mg/kg	0.94	0.0239 J	0.688	< 0.021	5.65	0.644	< 0.022	< 0.018	1.1	< 0.018	< 0.02	< 0.041	0.652 J
2-Methylphenol	mg/kg	< 0.041	< 0.038	< 0.041	< 0.043	< 0.04	< 0.042	< 0.044	< 0.037	< 0.043	< 0.038	< 0.04	< 0.083	< 0.69
2-Nitroaniline	mg/kg	< 0.016	< 0.015	< 0.016	< 0.017	< 0.016	< 0.016	< 0.017	< 0.014	< 0.017	< 0.015	< 0.016	< 0.032	< 0.27
2-Nitrophenol	mg/kg	< 0.038	< 0.036	< 0.038	< 0.04	< 0.038	< 0.039	< 0.041	< 0.035	< 0.04	< 0.035	< 0.037	< 0.077	< 0.64
3&4-Methylphenol	mg/kg	< 0.046	< 0.043	< 0.045	< 0.048	< 0.045	< 0.047	< 0.049	< 0.131	< 0.048	< 0.042	< 0.045	< 0.092	< 0.77
3,3'-Dichlorobenzidine	mg/kg	< 0.0091	< 0.0086	< 0.009	< 0.0096	< 0.009	< 0.0094	< 0.0099	< 0.0083	< 0.0096	< 0.0084	< 0.0089	< 0.018	< 0.15
3-Nitroaniline	mg/kg	< 0.014	< 0.013	< 0.014	< 0.015	< 0.014	< 0.015	< 0.016	< 0.013	< 0.015	< 0.013	< 0.014	< 0.029	< 0.24
4,6-Dinitro-o-cresol	mg/kg	< 0.044	< 0.041	< 0.043	< 0.046	< 0.043	< 0.045	< 0.047	< 0.04	< 0.046	< 0.04	< 0.043	< 0.089	< 0.74
4-Bromophenyl phenyl ether	mg/kg	< 0.013	< 0.012	< 0.013	< 0.014	< 0.013	< 0.014	< 0.014	< 0.012	< 0.014	< 0.012	< 0.013	< 0.026	< 0.22
4-Chloro-3-methyl phenol	mg/kg	< 0.036	< 0.034	< 0.036	< 0.038	< 0.035	< 0.037	< 0.039	< 0.033	< 0.038	< 0.033	< 0.035	< 0.073	< 0.6
4-Chloroaniline	mg/kg	< 0.011	< 0.011	< 0.011	< 0.012	< 0.011	< 0.012	< 0.012	< 0.011	< 0.012	< 0.011	< 0.011	< 0.023	< 0.19
4-Chlorophenyl phenyl ether	mg/kg	< 0.011	< 0.01	< 0.011	< 0.011	< 0.011	< 0.011	< 0.012	< 0.0099	< 0.011	< 0.0099	< 0.011	< 0.022	< 0.18
4-Nitroaniline	mg/kg	< 0.014	< 0.013	< 0.014	< 0.015	< 0.014	< 0.015	< 0.015	< 0.013	< 0.015	< 0.013	< 0.014	< 0.028	< 0.24
4-Nitrophenol	mg/kg	< 0.061	< 0.057	< 0.06	< 0.064	< 0.06	< 0.063	< 0.066	< 0.056	< 0.064	< 0.056	< 0.06	< 0.12	< 1
Acenaphthene	mg/kg	< 0.01	< 0.0098	< 0.01	< 0.011	0.0284 J	< 0.011	< 0.011	< 0.0095	< 0.011	< 0.0096	< 0.01	< 0.021	< 0.18
Acenaphthylene	mg/kg	< 0.011	0.0128 J	0.0195 J	< 0.012	< 0.011	< 0.012	0.037 J	< 0.011	< 0.012	0.02 J	< 0.011	< 0.023	< 0.19
Acetophenone	mg/kg	< 0.0063	< 0.0059	< 0.0063	< 0.0066	< 0.0062	< 0.0065	< 0.0068	< 0.0058	< 0.0066	< 0.0058	< 0.0062	< 0.013	< 0.11
Anthracene	mg/kg	< 0.013	0.0143 J	0.0211 J	< 0.013	< 0.012	< 0.013	0.0552	< 0.011	< 0.013	0.0246 J	< 0.012	< 0.025	< 0.21
Atrazine	mg/kg	< 0.0071	< 0.0066	< 0.007	< 0.0074	< 0.007	< 0.0073	< 0.0076	< 0.0065	< 0.0074	< 0.0065	< 0.0069	< 0.014	< 0.12
Benzaldehyde	mg/kg	< 0.0083	< 0.0078	< 0.0082	< 0.0087	< 0.0082	< 0.0086	< 0.0089	< 0.0076	< 0.0087	< 0.0076	< 0.0081	< 0.017	< 0.14
Benzo(a)anthracene	mg/kg	0.0226 J	0.0409	0.0643	0.0347 J	0.0413	< 0.012	0.161	0.0305 J	0.0481	0.0897	0.0393	< 0.024	< 0.2
Benzo(a)pyrene	mg/kg	0.0165 J	0.0388	0.068	0.0367 J	< 0.011	< 0.011	0.163	0.0316 J	0.0416	0.0723	0.0324 J	< 0.022	< 0.18
Benzo(b)fluoranthene	mg/kg	0.0287 J	0.0548	0.0974	0.0502	< 0.012	< 0.012	0.231	0.0396	0.0559	0.108	0.0466	< 0.024	< 0.2
Benzo(g,h,i)perylene	mg/kg	0.0164 J	0.0235 J	0.0393	< 0.014	< 0.013	< 0.014	0.0979	0.0279 J	0.0357 J	0.0582	0.0296 J	< 0.027	< 0.22
Benzo(k)fluoranthene	mg/kg	< 0.014	0.0189 J	0.0346 J	0.0182 J	< 0.013	< 0.014	0.0787	0.02 J	0.0336 J	0.0431	0.0174 J	< 0.027	< 0.23
bis(2-Chloroethoxy)methane	mg/kg	< 0.015	< 0.014	< 0.014	< 0.015	< 0.014	< 0.015	< 0.016	< 0.013	< 0.015	< 0.013	< 0.014	< 0.029	< 0.24
bis(2-Chloroethyl)ether	mg/kg	< 0.011	< 0.01	< 0.011	< 0.011	< 0.011	< 0.011	< 0.012	< 0.0099	< 0.011	< 0.0099	< 0.011	< 0.022	< 0.18
bis(2-Chloroisopropyl)ether	mg/kg	< 0.011	< 0.01	< 0.011	< 0.011	< 0.011	< 0.011	< 0.012	< 0.0098	< 0.011	< 0.0098	< 0.01	< 0.022	< 0.18
bis(2-Ethylhexyl)phthalate	mg/kg	7.06	0.302	8.83	0.126	18.2	3.34	0.153	0.0795	2.6	0.0567 J	0.0849	0.182	2.11
Butyl benzyl phthalate	mg/kg	< 0.021	< 0.02	< 0.021	< 0.022	< 0.021	< 0.022	< 0.022	< 0.019	< 0.022	< 0.019	< 0.02	< 0.042	< 0.35
Caprolactam	mg/kg	< 0.011	< 0.011	< 0.011	< 0.012	< 0.011	< 0.012	< 0.012	< 0.01	< 0.012	< 0.01	< 0.011	< 0.023	< 0.19
Carbazole	mg/kg	< 0.017	< 0.016	< 0.016	< 0.017	< 0.016	< 0.017	< 0.018	< 0.015	< 0.017	< 0.015	< 0.016	< 0.034	< 0.28
CHLOROPHENOLS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	0.0352 J	0.0412	0.0659	0.0378 J	0.0675	< 0.013	0.18	0.0397	0.0758	0.101	0.0402	< 0.025	< 0.2
Dibenzo(a,h)anthracene	mg/kg	< 0.012	< 0.011	< 0.012	< 0.013	< 0.012	< 0.013	< 0.013	< 0.011	< 0.013	0.0181 J	< 0.012	< 0.025	< 0.21
Dibenzofuran	mg/kg	< 0.011	< 0.01	< 0.011	< 0.011	0.0572 J	< 0.011	< 0.012	< 0.0098	< 0.011	< 0.0098	< 0.01	< 0.022	< 0.18
Diethyl phthalate	mg/kg	< 0.012	< 0.011	< 0.012	< 0.013	< 0.012	< 0.013	< 0.013	< 0.011	< 0.013	< 0.011	< 0.012	< 0.025	< 0.21
Dimethyl phthalate	mg/kg	< 0.013	< 0.012	< 0.013	< 0.013	0.065 J	< 0.013	< 0.014	< 0.012	< 0.013	< 0.012	< 0.012	< 0.026	< 0.21
Di-n-butyl phthalate	mg/kg	0.17	< 0.0075	0.0503 J	< 0.0084	0.221	< 0.0083	< 0.0086	< 0.0073	0.23	< 0.0073	< 0.0078	< 0.016	< 0.13
Di-n-octyl phthalate	mg/kg	< 0.017	< 0.016	< 0.017	< 0.018	< 0.017	< 0.018	< 0.019	< 0.016	< 0.018	< 0.016	< 0.017	< 0.035	< 0.29
Fluoranthene	mg/kg	0.0427	0.0706	0.0883	0.0624	0.109	< 0.016	0.263	0.0538	0.112	0.16	0.0685	< 0.032	< 0.27
Fluorene	mg/kg	< 0.012	< 0.011	< 0.012	< 0.012	0.075	< 0.012	< 0.013	< 0.011	< 0.012	< 0.011	< 0.012	< 0.024	< 0.2
Hexachlorobenzene	mg/kg	< 0.012	< 0.011	< 0.012	< 0.012	< 0.012	< 0.012	< 0.013	< 0.011	< 0.012	< 0.011	< 0.011	< 0.024	< 0.2
Hexachlorobutadiene	mg/kg	< 0.01	< 0.0094	< 0.0099	< 0.01	< 0.0099	< 0.01	< 0.011	< 0.0091	< 0.011	< 0.0092	< 0.0098	< 0.02	< 0.17
Hexachlorocyclopentadiene	mg/kg	< 0.037	< 0.034	< 0.036	< 0.038	< 0.036	< 0.038	< 0.04	< 0.034	< 0.039	< 0.034	< 0.036	< 0.074	< 0.62
Hexachloroethane	mg/kg	< 0.01	< 0.0094	< 0.0099	< 0.01	< 0.0099	< 0.01	< 0.011	< 0.0091	< 0.011	< 0.0092	< 0.0098	< 0.02	< 0.17
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.012	0.0286 J	0.0451	0.0268 J	< 0.012	< 0.013	0.105	0.0222 J	0.0307 J	0.0512	0.0236 J	< 0.025	< 0.21
Isophorone	mg/kg	< 0.0097	< 0.0091	< 0.0096	< 0.01	< 0.0095	< 0.01	< 0.01	< 0.0088	< 0.01	< 0.0089	< 0.0095	< 0.02	< 0.16
Naphthalene	mg/kg	2.56	0.0573	1.91	0.0672	31.8	1.48	< 0.011	< 0.009	6.26	< 0.009	< 0.0096	< 0.02	0.322 J
Nitrobenzene	mg/kg	< 0.01	< 0.0097	< 0.01	< 0.011	< 0.01	< 0.011	< 0.011	< 0.0095	< 0.011	< 0.0095	< 0.01	< 0.021	< 0.17
N-Nitroso-di-n-propylamine	mg/kg	< 0.0088	< 0.0082	< 0.0087	< 0.0092	< 0.0087	< 0.0091	< 0.0095	<					

Table 12. Summary of Waste Classification Analytical Results, Operable

Sample ID		WC(062713)JF 6/27/2013	WC(062813)-BIN 6 6/28/2013	WC(070213)-BIN 3F 7/2/2013	WC(070213)-BIN 5 7/2/2013	WC(071013) 8F 7/10/2013	WC(071213) 1 7/12/2013	WC(071213) 5 7/12/2013	WC(071513) 2 7/15/2013	WC(071513) 3F 7/15/2013	WC(071713)1 7/17/2013	WC(071713)7 7/17/2013	WC(071813)WTC 7/18/2013	WC(071813)WTSL 7/18/2013
Sample Date														
SVOCs cont.														
Pentachlorophenol	mg/kg	< 0.061	< 0.058	< 0.061	< 0.064	< 0.061	< 0.064	< 0.066	< 0.056	< 0.065	< 0.056	< 0.06	< 0.12	< 1
Phenanthrene	mg/kg	0.0658	0.0458	0.0557	0.0296 J	0.208	0.0445	0.129	0.0302 J	0.143	0.0834	0.0329 J	< 0.033	< 0.27
Phenol	mg/kg	< 0.038	< 0.035	< 0.037	< 0.04	< 0.037	< 0.039	< 0.041	< 0.034	< 0.04	< 0.035	< 0.037	0.132 J	< 0.63
Pyrene	mg/kg	0.0416	0.0687	0.0996	0.0594	0.132	< 0.014	0.341	0.0619	0.103	0.227	0.096	< 0.028	< 0.23
PYRIDINE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total TIC, Semi-Volatile	mg/kg	63.6 J	4.74 J	73.9 J	5.84 J	348 J	44.8 J	12.5 J	5.9 J	186 J	3.74 J	1.63 J	84.4 J	31 J
SVOCs-Leachate														
1,4-Dichlorobenzene	mg/l	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036
2,4,5-Trichlorophenol	mg/l	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
2,4,6-Trichlorophenol	mg/l	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,4-Dinitrotoluene	mg/l	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043
2-Methylphenol	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
3&4-Methylphenol	mg/l	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093
Hexachlorobenzene	mg/l	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034
Hexachlorobutadiene	mg/l	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051
Hexachloroethane	mg/l	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055
Nitrobenzene	mg/l	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042
Pentachlorophenol	mg/l	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
PYRIDINE	mg/l	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032
PCBs														
Aroclor 1016	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals-Leachate														
Arsenic	mg/l	0.0071 B	< 0.0015	0.0055 B	< 0.0015	0.011 B	0.01 B	0.0043 B	0.0025 B	0.0086 B	< 0.0015	< 0.0015	0.011 B	0.068 B
Barium	mg/l	1.8	1.3	2	0.84 B	2.8	2.6	0.73 B	1.2	2.7	0.87 B	1	1.3	4
Cadmium	mg/l	0.004 B	0.0026 B	0.0052	0.0016 B	0.033	0.0057	0.002 B	0.0023 B	0.0049 B	0.0018 B	0.0009 B	0.0003 B	0.0014 B
Chromium	mg/l	0.002 B	0.0034 B	0.0044 B	0.0013 B	0.012	0.0036 B	0.0013 B	0.011	0.0039 B	0.0019 B	0.002 B	0.001 B	0.02
Lead	mg/l	19.8	0.12 B	12.9	0.067 B	49.7	12.4	0.93	0.42 B	17.1	0.018 B	< 0.0024	0.012 B	0.3 B
Mercury	mg/l	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089
Selenium	mg/l	0.0056 B	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0024	0.0051 B	0.0036 B	0.014 B	0.013 B	0.0046 B	0.012 B
Silver	mg/l	0.0062 B	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	0.0041 B	0.0049 B	< 0.0015	0.0027 B
Other														
Cyanide Reactivity	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heat Content, BTU	BTU/lb	1000	942	668	221	1040	306	395	761	627	379	430	14600	2540
Ignitability (Flashpoint)	Deg F	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS ABOVE C-10	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	su	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide Reactivity	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids, Percent	%	86.7	88.3	82.5	84.5	79.9	87.3	85.1	86	81.7	89.7	90.1	40.9	5.5
TOTAL ORGANIC HALIDES (TOX)	mg/kg	85	< 22	36.7	< 24	48.1	< 23	< 23	< 23	36.3	54.3	< 22	< 47	< 360

Notes:

mg/kg	Milligrams per kilogram
NA	Not Analyzed
<	Not detected
B	Result is between the method detection limit and the r
D	Result is based on a diluted sample analysis.
E	Result exceeds calibration range
J	Estimated Result
R	Rejected Result
Bold	Detection

Table 12. Summary of Waste Classification Analytical Results, Operabl

Sample ID Sample Date		WC(072613)WSA-1 7/26/2013	WC(072613)WSA-2 7/26/2013	WC(072913)WSA-3 7/29/2013	WC(072913)WSA-4 7/29/2013	WC(080113)WSA-5 8/1/2013	WC(080513)WSA-6 8/5/2013	WC(080613)WSA-7 8/6/2013	WC(081413) WSA-9 8/14/2013	WC(082113) 8/21/2013	WC-111913-NH 11/19/2013	WC-112513 11/25/2013
VOCs												
1,1,1-Trichloroethane	mg/kg	< 0.029	< 0.006	< 0.0047	< 0.005	< 0.0072	< 0.00012	< 0.0061	< 0.000082	< 0.00015	< 0.00032	< 0.00034
1,1,2,2-Tetrachloroethane	mg/kg	< 0.036	< 0.0075	< 0.0059	< 0.0062	< 0.009	< 0.00015	< 0.0077	< 0.0001	< 0.00018	< 0.00038	< 0.00041
1,1,2-Trichloroethane	mg/kg	< 0.048	< 0.0098	< 0.0078	< 0.0081	< 0.012	< 0.00019	< 0.01	< 0.00014	< 0.00024	< 0.00092	< 0.00097
1,1-Dichloroethane	mg/kg	< 0.038	< 0.0077	< 0.0061	< 0.0064	< 0.0094	< 0.00015	< 0.0079	< 0.00011	< 0.00019	< 0.00035	< 0.00037
1,1-Dichloroethene	mg/kg	< 0.071	< 0.015	< 0.011	< 0.012	< 0.018	< 0.00029	< 0.015	< 0.0002	< 0.00035	< 0.00032	< 0.00034
1,2,3-TRICHLOROBENZENE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	< 0.038	< 0.0079	< 0.0062	< 0.0065	< 0.0095	< 0.00015	< 0.0081	< 0.00011	< 0.00019	< 0.0002	< 0.00021
1,2-Dibromo-3-chloropropane	mg/kg	< 0.24	< 0.05	< 0.04	< 0.042	< 0.061	< 0.00099	< 0.052	< 0.00069	< 0.0012	< 0.0015	< 0.0016
1,2-Dibromoethane	mg/kg	< 0.035	< 0.0072	< 0.0057	< 0.0059	< 0.0087	< 0.00014	< 0.0074	< 0.000099	< 0.00018	< 0.00061	< 0.00065
1,2-Dichlorobenzene	mg/kg	< 0.052	< 0.011	< 0.0084	< 0.0088	< 0.013	< 0.00021	< 0.011	< 0.00015	< 0.00026	< 0.00038	< 0.0004
1,2-Dichloroethane	mg/kg	< 0.037	< 0.0076	< 0.006	< 0.0063	< 0.0092	< 0.00015	< 0.0078	< 0.00011	< 0.00019	< 0.00036	< 0.00038
1,2-Dichloropropane	mg/kg	< 0.042	< 0.0087	< 0.0069	< 0.0072	< 0.011	< 0.00017	< 0.0089	< 0.00012	< 0.00021	< 0.00049	< 0.00052
1,3-Dichlorobenzene	mg/kg	< 0.051	< 0.011	< 0.0083	< 0.0087	< 0.013	< 0.00021	< 0.011	< 0.00015	< 0.00026	< 0.00024	< 0.00026
1,4-Dichlorobenzene	mg/kg	< 0.048	< 0.0099	< 0.0079	< 0.0082	< 0.012	< 0.0002	< 0.01	< 0.00014	< 0.00024	< 0.00028	< 0.0003
1,4-Dioxane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (MEK)	mg/kg	< 0.66	< 0.14	< 0.11	< 0.11	< 0.16	0.0916	0.397 J	< 0.0019	< 0.0033	< 0.0049	0.038
2-Hexanone	mg/kg	< 0.17	< 0.035	< 0.028	< 0.029	< 0.042	< 0.00069	< 0.036	< 0.00048	< 0.00086	< 0.002	< 0.0021
4-Methyl-2-pentanone(MIBK)	mg/kg	< 0.21	< 0.042	< 0.034	< 0.035	< 0.051	0.0081	< 0.044	< 0.00058	< 0.001	< 0.0015	0.0213
Acetone	mg/kg	< 0.46	< 0.096	< 0.075	< 0.079	< 0.12	0.174	0.4 J	< 0.0013	< 0.0023	< 0.0051	0.288
Benzene	mg/kg	< 0.033	< 0.0067	< 0.0053	0.0122 J	< 0.0081	0.00044 J	< 0.0069	< 0.000093	< 0.00016	< 0.00014	0.00063
Bromodichloromethane	mg/kg	< 0.029	< 0.0059	< 0.0047	< 0.0049	< 0.0072	< 0.00012	< 0.0061	< 0.000082	< 0.00014	< 0.00031	< 0.00033
Bromoform	mg/kg	< 0.041	< 0.0085	< 0.0067	< 0.0071	< 0.01	< 0.00017	< 0.0088	< 0.00021	< 0.00029	< 0.00029	< 0.00031
Bromomethane	mg/kg	< 0.075	< 0.015	< 0.012	< 0.013	< 0.019	< 0.0003	< 0.016	< 0.00021	< 0.00038	< 0.00054	< 0.00057
Carbon disulfide	mg/kg	< 0.032	< 0.0066	< 0.0052	< 0.0055	< 0.008	< 0.00013	< 0.0068	< 0.000091	< 0.00016	< 0.00016	< 0.00017
Carbon tetrachloride	mg/kg	< 0.037	< 0.0075	< 0.0059	< 0.0062	< 0.0091	< 0.00015	< 0.0077	< 0.0001	< 0.00018	< 0.00028	< 0.0003
Chlorobenzene	mg/kg	< 0.03	< 0.0061	< 0.0048	< 0.0051	< 0.0074	< 0.00012	< 0.0063	< 0.000084	< 0.00015	< 0.00022	< 0.00023
CHLOROBROMOMETHANE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	< 0.062	< 0.013	< 0.01	< 0.011	< 0.015	< 0.00025	< 0.013	< 0.00018	< 0.00031	< 0.0011	< 0.0012
Chloroform	mg/kg	< 0.023	< 0.0047	< 0.0037	< 0.0039	< 0.0056	< 0.000092	< 0.0048	< 0.000064	< 0.00011	< 0.00028	< 0.0003
Chloromethane	mg/kg	< 0.051	< 0.011	< 0.0083	< 0.0087	< 0.013	< 0.00021	< 0.011	< 0.00014	< 0.00026	< 0.00038	< 0.00041
cis-1,2-Dichloroethene	mg/kg	< 0.05	< 0.01	< 0.0082	< 0.0086	< 0.012	< 0.0002	< 0.011	< 0.00014	< 0.00025	< 0.00023	< 0.00025
cis-1,3-Dichloropropene	mg/kg	< 0.038	< 0.0079	< 0.0062	< 0.0065	< 0.0095	< 0.00015	< 0.0081	< 0.00011	< 0.00019	< 0.00025	< 0.00027
Cyclohexane	mg/kg	< 0.034	< 0.007	< 0.0055	0.0445 J	< 0.0085	0.00072 J	< 0.0072	< 0.000096	< 0.00017	< 0.00029	0.00049
Dibromochloromethane	mg/kg	< 0.045	< 0.0093	< 0.0073	< 0.0077	< 0.011	< 0.00018	< 0.0095	< 0.00013	< 0.00023	< 0.00027	< 0.00029
Dichlorodifluoromethane	mg/kg	< 0.063	< 0.013	< 0.01	< 0.011	< 0.016	< 0.00025	< 0.013	< 0.00018	< 0.00031	< 0.0004	< 0.00042
Ethylbenzene	mg/kg	30.1	7.3	1.37	3.45	0.0665 J	0.093	7.42	< 0.0002	< 0.00036	0.0016	0.151
Freon 113	mg/kg	< 0.12	< 0.024	< 0.019	< 0.02	< 0.029	< 0.00048	< 0.025	< 0.00033	< 0.00059	< 0.00049	< 0.00052
Isopropylbenzene	mg/kg	5.27	1.26	0.284	0.748	0.0708 J	0.0224	1.31	< 0.000058	< 0.0001	0.00062 J	0.0375
Methyl Acetate	mg/kg	< 0.71	< 0.15	< 0.12	< 0.12	< 0.18	< 0.0029	< 0.15	< 0.002	< 0.0036	< 0.0019	< 0.002
Methyl Tert Butyl Ether	mg/kg	< 0.065	< 0.013	< 0.01	< 0.011	< 0.016	< 0.00026	< 0.014	< 0.00018	< 0.00032	< 0.00038	< 0.00041
Methylcyclohexane	mg/kg	0.775 J	0.164 J	0.078 J	0.164 J	0.0518 J	0.002 J	0.18 J	< 0.00013	< 0.00023	< 0.00018	0.0044
Methylene chloride	mg/kg	< 0.35	< 0.072	< 0.057	< 0.059	< 0.087	0.0025 J	< 0.074	0.0021 J	< 0.0018	< 0.0019	< 0.002
Styrene	mg/kg	< 0.025	< 0.0052	< 0.0041	< 0.0043	< 0.0063	< 0.0001	< 0.0053	< 0.000071	< 0.00013	< 0.00026	< 0.00028
Tetrachloroethene	mg/kg	< 0.047	< 0.0097	< 0.0077	< 0.008	< 0.012	< 0.00019	< 0.01	< 0.00013	< 0.00024	0.0014 J	< 0.00049
Toluene	mg/kg	13.2	2.91	0.888	2.57	0.0435 J	0.103	8.25	< 0.000082	< 0.00014	< 0.00016	0.88
trans-1,2-Dichloroethene	mg/kg	< 0.065	< 0.013	< 0.011	< 0.011	< 0.016	< 0.00026	< 0.014	< 0.00019	< 0.00033	< 0.00047	< 0.0005
trans-1,3-Dichloropropene	mg/kg	< 0.043	< 0.0088	< 0.0069	< 0.0073	< 0.011	< 0.00017	< 0.009	< 0.00012	< 0.00021	< 0.0003	< 0.00032
Trichloroethene	mg/kg	< 0.048	< 0.0098	< 0.0078	< 0.0081	< 0.012	< 0.00019	< 0.01	< 0.00014	< 0.00024	< 0.00039	< 0.00042
Trichlorofluoromethane	mg/kg	< 0.082	< 0.017	< 0.013	< 0.014	< 0.02	< 0.00033	< 0.017	< 0.00023	< 0.00041	< 0.00025	< 0.00027
Vinyl chloride	mg/kg	< 0.04	< 0.0081	< 0.0064	< 0.0067	< 0.0098	< 0.00016	< 0.0083	< 0.00011	< 0.0002	< 0.00038	< 0.00041
m,p-Xylene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene (total)	mg/kg	228	54.2	14.6	26.7	1.07	10.3	63.7	< 0.00011	< 0.00019	0.0095	11.5
Total TIC, Volatile	mg/kg	3050 J	441 J	37 J	59.8 J	17.9 J	0.409 J	107 J	0	0.0307 J	0	2.88
VOCs-Leachate												
1,1-Dichloroethene	mg/l	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.0017	< 0.0017
1,2-Dichloroethane	mg/l	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0011	< 0.0011
1,4-Dichlorobenzene	mg/l	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
2-Butanone (MEK)	mg/l	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.016	< 0.016
Benzene	mg/l	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0024	< 0.0024
Carbon tetrachloride	mg/l	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Chlorobenzene	mg/l	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0017	< 0.0017
Chloroform	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0012	< 0.0012
Tetrachloroethene	mg/l	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0013	< 0.0013
Trichloroethene	mg/l	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0025	< 0.0025
Vinyl chloride	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0026	< 0.0026

Table 12. Summary of Waste Classification Analytical Results, Operabl

Sample ID		WC(072613)WSA-1	WC(072613)WSA-2	WC(072913)WSA-3	WC(072913)WSA-4	WC(080113)WSA-5	WC(080513)WSA-6	WC(080613)WSA-7	WC(081413) WSA-9	WC(082113)	WC-111913-NH	WC-112513
Sample Date		7/26/2013	7/26/2013	7/29/2013	7/29/2013	8/1/2013	8/5/2013	8/6/2013	8/14/2013	8/21/2013	11/19/2013	11/25/2013
SVOCs												
1,1'-Biphenyl	mg/kg	0.0362 J	0.0636 J	< 0.0035	< 0.0037	< 0.0049	< 0.0046	< 0.0036	< 0.0037	< 0.025	< 0.004	0.0224
1,2,4,5-TETRACHLOROBENZENE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	< 0.037	< 0.041	< 0.035	< 0.037	< 0.049	< 0.046	< 0.036	< 0.037	< 0.25	< 0.04	< 0.039
2,4,6-Trichlorophenol	mg/kg	< 0.03	< 0.033	< 0.029	< 0.03	< 0.04	< 0.037	< 0.029	< 0.03	< 0.2	< 0.032	< 0.032
2,4-Dichlorophenol	mg/kg	< 0.051	< 0.057	< 0.049	< 0.052	< 0.068	< 0.064	< 0.05	< 0.052	< 0.34	< 0.055	< 0.054
2,4-Dimethylphenol	mg/kg	< 0.054	< 0.059	< 0.051	< 0.054	< 0.071	< 0.066	< 0.052	< 0.054	< 0.36	< 0.058	< 0.057
2,4-Dinitrophenol	mg/kg	< 0.039	< 0.043	< 0.037	< 0.039	< 0.051	< 0.048	< 0.038	< 0.039	< 0.26	< 0.042	< 0.041
2,4-Dinitrotoluene	mg/kg	< 0.014	< 0.015	< 0.013	< 0.014	< 0.018	< 0.017	< 0.014	< 0.014	< 0.094	< 0.015	< 0.015
2,6-Dinitrotoluene	mg/kg	< 0.012	< 0.013	< 0.012	< 0.012	< 0.016	< 0.015	< 0.012	< 0.012	< 0.082	< 0.013	< 0.013
2-Chloronaphthalene	mg/kg	< 0.0099	< 0.011	< 0.0095	< 0.0099	< 0.013	< 0.012	< 0.0097	< 0.01	< 0.066	< 0.011	< 0.01
2-Chlorophenol	mg/kg	< 0.032	< 0.036	< 0.031	< 0.032	< 0.043	< 0.04	< 0.031	< 0.032	< 0.22	< 0.035	< 0.034
2-Methylnaphthalene	mg/kg	0.585	1.51	0.304	0.331	0.0815 J	0.337	0.46	< 0.018	< 0.12	< 0.019	0.819
2-Methylphenol	mg/kg	< 0.036	< 0.04	< 0.035	< 0.037	< 0.048	< 0.045	< 0.036	< 0.037	< 0.24	< 0.039	< 0.039
2-Nitroaniline	mg/kg	< 0.014	< 0.016	< 0.013	< 0.014	< 0.019	< 0.017	< 0.014	< 0.014	< 0.094	< 0.015	< 0.015
2-Nitrophenol	mg/kg	< 0.034	< 0.037	< 0.032	< 0.034	< 0.045	< 0.042	< 0.033	< 0.034	< 0.23	< 0.036	< 0.036
3&4-Methylphenol	mg/kg	< 0.041	< 0.045	< 0.039	< 0.041	< 0.054	0.998	1.28	< 0.052	< 0.27	< 0.043	< 0.043
3,3'-Dichlorobenzidine	mg/kg	< 0.0081	< 0.0089	< 0.0078	< 0.0081	< 0.011	< 0.01	< 0.0079	< 0.0082	< 0.054	< 0.0087	< 0.0086
3-Nitroaniline	mg/kg	< 0.013	< 0.014	< 0.012	< 0.013	< 0.017	< 0.016	< 0.012	< 0.013	< 0.086	< 0.014	< 0.014
4,6-Dinitro-o-cresol	mg/kg	< 0.039	< 0.043	< 0.037	< 0.039	< 0.051	< 0.048	< 0.038	< 0.039	< 0.26	< 0.042	< 0.041
4-Bromophenyl phenyl ether	mg/kg	< 0.012	< 0.013	< 0.011	< 0.012	< 0.015	< 0.014	< 0.011	< 0.012	< 0.078	< 0.012	< 0.012
4-Chloro-3-methyl phenol	mg/kg	< 0.032	< 0.035	< 0.031	< 0.032	< 0.042	< 0.039	< 0.031	< 0.032	< 0.21	< 0.034	< 0.034
4-Chloroaniline	mg/kg	< 0.01	< 0.011	< 0.0098	< 0.01	< 0.013	< 0.013	< 0.01	< 0.01	< 0.069	< 0.011	< 0.011
4-Chlorophenyl phenyl ether	mg/kg	< 0.0096	< 0.011	< 0.0092	< 0.0097	< 0.013	< 0.012	< 0.0094	< 0.0097	< 0.064	< 0.01	< 0.01
4-Nitroaniline	mg/kg	< 0.012	< 0.014	< 0.012	< 0.013	< 0.016	< 0.015	< 0.012	< 0.013	< 0.084	< 0.013	< 0.013
4-Nitrophenol	mg/kg	< 0.054	< 0.06	< 0.052	< 0.054	< 0.071	< 0.067	< 0.053	< 0.054	< 0.36	< 0.058	< 0.057
Acenaphthene	mg/kg	< 0.0093	< 0.01	< 0.0089	< 0.0093	0.0173 J	0.0274 J	0.0535	< 0.0093	0.281	< 0.0099	< 0.0098
Acenaphthylene	mg/kg	< 0.01	< 0.011	< 0.0098	< 0.01	< 0.013	0.0532	0.0393	< 0.01	0.432	< 0.011	< 0.011
Acetophenone	mg/kg	< 0.0056	< 0.0062	< 0.0054	< 0.0056	< 0.0074	< 0.0074	< 0.0055	< 0.0057	< 0.038	< 0.006	< 0.006
Anthracene	mg/kg	< 0.011	< 0.012	< 0.011	< 0.011	0.0622	0.0887	0.11	0.0138 J	1.21	0.0243 J	0.0268
Atrazine	mg/kg	< 0.0063	< 0.0069	< 0.006	< 0.0063	< 0.0083	< 0.0078	< 0.0061	< 0.0063	< 0.042	< 0.0067	< 0.0067
Benzaldehyde	mg/kg	< 0.0073	< 0.0081	< 0.007	< 0.0074	< 0.0097	< 0.0091	< 0.0072	< 0.0074	< 0.049	< 0.0079	< 0.0078
Benzo(a)anthracene	mg/kg	0.0284 J	0.0403	0.0195 J	0.0195 J	0.265	0.0369	4.11	0.0369	4.11	0.265	0.0434
Benzo(a)pyrene	mg/kg	0.022 J	0.0302 J	< 0.0093	0.015 J	0.132	0.267	0.245	0.0327	3.58	0.0674	0.0253
Benzo(b)fluoranthene	mg/kg	0.0268 J	0.0398	< 0.01	0.0264 J	0.114	0.376	0.322	0.0431	4.82	0.0848	0.0264
Benzo(g,h,i)perylene	mg/kg	0.0191 J	0.0284 J	< 0.011	< 0.012	0.0901	0.16	0.152	0.0242 J	2.41	0.0463	0.0235
Benzo(k)fluoranthene	mg/kg	0.017 J	0.0247 J	< 0.011	< 0.012	0.101	0.122	0.124	0.0169 J	1.84	0.0302 J	0.0149
bis(2-Chloroethoxy)methane	mg/kg	< 0.013	< 0.014	< 0.012	< 0.013	< 0.017	< 0.016	< 0.013	< 0.013	< 0.087	< 0.014	< 0.014
bis(2-Chloroethyl)ether	mg/kg	< 0.0096	< 0.011	< 0.0092	< 0.0097	< 0.013	< 0.012	< 0.0094	< 0.0097	< 0.064	< 0.01	< 0.01
bis(2-Chloroisopropyl)ether	mg/kg	< 0.0095	< 0.01	< 0.0091	< 0.0095	< 0.013	< 0.012	< 0.0093	< 0.0095	< 0.064	< 0.01	< 0.01
bis(2-Ethylhexyl)phthalate	mg/kg	7.75	3.45	1.59	2.41	1.3	2.21	1.89	0.253	0.662	0.177	14.7
Butyl benzyl phthalate	mg/kg	< 0.018	< 0.02	< 0.018	< 0.019	< 0.024	< 0.023	< 0.018	< 0.019	< 0.12	< 0.02	< 0.02
Caprolactam	mg/kg	< 0.01	< 0.011	< 0.0096	< 0.01	< 0.013	< 0.012	< 0.0098	< 0.01	< 0.067	< 0.011	< 0.011
Carbazole	mg/kg	< 0.015	< 0.016	< 0.014	< 0.015	0.0312 J	0.0331 J	0.0359 J	< 0.015	0.452	< 0.016	< 0.016
CHLOROPHENOLS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	0.0344	0.0558	< 0.01	0.0235 J	0.149	0.295	0.292	0.0401	4.48	0.0772	0.0906
Dibenzo(a,h)anthracene	mg/kg	< 0.011	< 0.012	< 0.01	< 0.011	0.0297 J	0.0406	0.0379	< 0.011	0.656	< 0.012	< 0.012
Dibenzofuran	mg/kg	< 0.0095	< 0.01	< 0.0091	< 0.0095	< 0.013	0.0194 J	0.0415 J	< 0.0095	0.117 J	< 0.01	0.0227
Diethyl phthalate	mg/kg	< 0.011	< 0.012	< 0.01	< 0.011	< 0.014	< 0.013	< 0.011	< 0.011	< 0.073	< 0.012	< 0.012
Dimethyl phthalate	mg/kg	0.163	0.155	0.071	< 0.011	< 0.015	< 0.014	< 0.011	< 0.011	< 0.075	< 0.012	< 0.012
Di-n-butyl phthalate	mg/kg	0.0535 J	< 0.0078	< 0.0068	0.0356 J	< 0.0094	< 0.0088	0.0404 J	< 0.0071	< 0.048	< 0.0076	0.0911
Di-n-octyl phthalate	mg/kg	< 0.016	< 0.017	< 0.015	< 0.016	< 0.021	< 0.019	< 0.015	< 0.016	< 0.1	< 0.017	< 0.016
Fluoranthene	mg/kg	0.0541	0.0856	0.0331	0.0384	0.317	0.554	0.548	0.0738	8.87	0.146	0.0783
Fluorene	mg/kg	< 0.01	< 0.012	< 0.01	< 0.011	< 0.014	0.0272 J	0.0512	< 0.011	0.327	< 0.011	< 0.011
Hexachlorobenzene	mg/kg	< 0.01	< 0.011	< 0.0099	< 0.01	< 0.014	< 0.013	< 0.01	< 0.01	< 0.07	< 0.011	< 0.011
Hexachlorobutadiene	mg/kg	< 0.0089	< 0.0098	< 0.0085	< 0.0089	< 0.012	< 0.011	< 0.0087	< 0.0089	< 0.06	< 0.0095	< 0.0094
Hexachlorocyclopentadiene	mg/kg	< 0.033	< 0.036	< 0.031	< 0.033	< 0.043	< 0.04	< 0.032	< 0.033	< 0.22	< 0.035	< 0.034
Hexachloroethane	mg/kg	< 0.0089	< 0.0098	< 0.0085	< 0.0089	< 0.012	< 0.011	< 0.0087	< 0.0089	< 0.06	< 0.0095	< 0.0094
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.011	< 0.012	< 0.011	< 0.011	0.0707	0.19	0.171	0.0273 J	2.68	0.0387	< 0.012
Isophorone	mg/kg	< 0.0086	< 0.0095	< 0.0082	< 0.0086	< 0.011	< 0.011	< 0.0084	< 0.0086	< 0.058	< 0.0092	< 0.0091
Naphthalene	mg/kg	1.91	3.71	1.23	0.848	0.195	0.788	0.865	0.0189 J	< 0.058	0.0185 J	2.51
Nitrobenzene	mg/kg	< 0.0092	< 0.01	< 0.0088	< 0.0093	< 0.012	< 0.011	< 0.009	< 0.0093	< 0.062	< 0.0099	< 0.0098
N-Nitroso-di-n-propylamine	mg/kg	< 0.0078	< 0.0086	< 0.0074	< 0.0078	< 0.01	< 0.0096	< 0.0076	< 0.0078	< 0.052	< 0.0084	< 0.0082
N-Nitrosodiphenylamine	mg/kg	< 0.019	< 0.021	< 0.018	< 0.019	< 0.025	< 0.024	< 0.019	< 0.019	< 0.13	< 0.02	< 0.02

Table 12. Summary of Waste Classification Analytical Results, Operable

Sample ID		WC(072613)WSA-1	WC(072613)WSA-2	WC(072913)WSA-3	WC(072913)WSA-4	WC(080113)WSA-5	WC(080513)WSA-6	WC(080613)WSA-7	WC(081413) WSA-9	WC(082113)	WC-111913-NH	WC-112513
Sample Date		7/26/2013	7/26/2013	7/29/2013	7/29/2013	8/1/2013	8/5/2013	8/6/2013	8/14/2013	8/21/2013	11/19/2013	11/25/2013
SVOCs cont.												
Pentachlorophenol	mg/kg	< 0.055	< 0.06	< 0.052	< 0.055	< 0.072	< 0.068	< 0.053	< 0.055	< 0.37	< 0.059	< 0.058
Phenanthrene	mg/kg	0.0602	0.103	0.0305 J	0.0384	0.268	0.299	0.401	0.0386	4.06	0.0803	0.181
Phenol	mg/kg	< 0.034	< 0.037	< 0.032	< 0.034	< 0.044	< 0.041	0.0993	< 0.034	< 0.22	< 0.036	< 0.035
Pyrene	mg/kg	0.0635	0.146	0.0341	0.0379	0.279	0.413	0.412	0.0653	7.31	0.129	0.139
PYRIDINE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total TIC, Semi-Volatile	mg/kg	74.9 J	177 J	23 J	22.8 J	10.7 J	28.8 J	61.3 J	1.54 J	24.9 J	4.03 J	62.7
SVOCs-Leachate												
1,4-Dichlorobenzene	mg/l	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036
2,4,5-Trichlorophenol	mg/l	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
2,4,6-Trichlorophenol	mg/l	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,4-Dinitrotoluene	mg/l	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043
2-Methylphenol	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
3&4-Methylphenol	mg/l	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	0.0517	0.0299	< 0.0093	< 0.0093	< 0.0093	< 0.0093
Hexachlorobenzene	mg/l	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034
Hexachlorobutadiene	mg/l	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051
Hexachloroethane	mg/l	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055
Nitrobenzene	mg/l	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042
Pentachlorophenol	mg/l	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
PYRIDINE	mg/l	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032
PCBs												
Aroclor 1016	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals-Leachate												
Arsenic	mg/l	0.0022 B	0.0064 B	< 0.0015	0.0075 B	0.0089 B	< 0.0015	< 0.0015	0.006 B	0.0049 B	0.0072 B	0.013
Barium	mg/l	1.8	3.7	1.6	1.2	1.2	0.94 B	1.2	1.6	0.7 B	1.8	2
Cadmium	mg/l	0.0036 B	0.0067	0.0005 B	0.0045 B	0.0025 B	0.012	0.0075	0.0018 B	0.019	0.0016 B	0.0089
Chromium	mg/l	< 0.00092	< 0.00092	0.001 B	0.0011 B	0.003 B	0.029	0.0032 B	0.0011 B	1.5	< 0.00092	< 0.00092
Lead	mg/l	0.85	5.2	0.014 B	3.7	1.8	0.37 B	0.33 B	0.021 B	0.51	0.018 B	26
Mercury	mg/l	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	< 0.000089	0.000096 B	< 0.000089	< 0.000089	0.000098 B	< 0.000089
Selenium	mg/l	0.0052 B	0.0082 B	0.0068 B	0.0062 B	0.0067 B	0.0069 B	0.0049 B	0.0085 B	0.0087 B	0.01 B	< 0.0024
Silver	mg/l	< 0.0015	< 0.0015	< 0.0015	< 0.0015	0.0027 B	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
Other												
Cyanide Reactivity	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heat Content, BTU	BTU/lb	757	1300	879	936	< 100	1470	1470	806	1850	518	281
Ignitability (Flashpoint)	Deg F	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS ABOVE C-10	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	su	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide Reactivity	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids, Percent	%	92.6	90.4	94.1	91.4	74.8	83.3	91.7	90.5	69.7	89.3	93.6
TOTAL ORGANIC HALIDES (TOX)	mg/kg	< 22	< 22	35.7	< 22	< 25	< 24	< 22	< 11	< 29	< 22	< 21

- Notes:
- mg/kg

NA

<

B

D

E

J

R

Bold
- Milligrams per kilogram

Not Analyzed

Not detected

Result is between the method detection limit and the re

Result is based on a diluted sample analysis.

Result exceeds calibration range

Estimated Result

Rejected Result

Detection

Table 12. Summary of Waste Classification Analytical Results, Operabl			
Sample ID		WC-12022013	WC-120513
Sample Date		12/2/2013	12/5/2013
VOCs			
1,1,1-Trichloroethane	mg/kg	< 0.078	< 0.00031
1,1,2,2-Tetrachloroethane	mg/kg	< 0.092	< 0.00037
1,1,2-Trichloroethane	mg/kg	< 0.22	< 0.0009
1,1-Dichloroethane	mg/kg	< 0.085	< 0.00034
1,1-Dichloroethene	mg/kg	< 0.078	< 0.00031
1,2,3-TRICHLOROBENZENE	mg/kg	NA	NA
1,2,4-Trichlorobenzene	mg/kg	< 0.049	< 0.0002
1,2-Dibromo-3-chloropropane	mg/kg	< 0.36	< 0.0015
1,2-Dibromoethane	mg/kg	< 0.15	< 0.0006
1,2-Dichlorobenzene	mg/kg	< 0.091	< 0.00037
1,2-Dichloroethane	mg/kg	< 0.087	< 0.00035
1,2-Dichloropropane	mg/kg	< 0.12	< 0.00048
1,3-Dichlorobenzene	mg/kg	< 0.059	< 0.00024
1,4-Dichlorobenzene	mg/kg	< 0.068	< 0.00027
1,4-Dioxane	mg/kg	NA	NA
2-Butanone (MEK)	mg/kg	< 1.2	< 0.0048
2-Hexanone	mg/kg	< 0.48	< 0.0019
4-Methyl-2-pentanone(MIBK)	mg/kg	< 0.36	< 0.0014
Acetone	mg/kg	< 1.2	< 0.005
Benzene	mg/kg	0.278	< 0.00014
Bromodichloromethane	mg/kg	< 0.076	< 0.00031
Bromoform	mg/kg	< 0.071	< 0.00029
Bromomethane	mg/kg	< 0.13	< 0.00052
Carbon disulfide	mg/kg	< 0.038	< 0.00015
Carbon tetrachloride	mg/kg	< 0.068	< 0.00027
Chlorobenzene	mg/kg	< 0.053	< 0.00021
CHLOROBROMOMETHANE	mg/kg	NA	NA
Chloroethane	mg/kg	< 0.27	< 0.0011
Chloroform	mg/kg	< 0.069	< 0.00028
Chloromethane	mg/kg	< 0.093	< 0.00037
cis-1,2-Dichloroethene	mg/kg	< 0.056	< 0.00023
cis-1,3-Dichloropropene	mg/kg	< 0.061	< 0.00025
Cyclohexane	mg/kg	0.537 J	< 0.00028
Dibromochloromethane	mg/kg	< 0.065	< 0.00026
Dichlorodifluoromethane	mg/kg	< 0.095	< 0.00038
Ethylbenzene	mg/kg	30.6	< 0.00019
Freon 113	mg/kg	< 0.12	< 0.00047
Isopropylbenzene	mg/kg	5.45	< 0.00016
Methyl Acetate	mg/kg	< 0.45	< 0.0018
Methyl Tert Butyl Ether	mg/kg	< 0.093	< 0.00037
Methylcyclohexane	mg/kg	1.55	< 0.00018
Methylene chloride	mg/kg	3.24	0.0025 J
Styrene	mg/kg	< 0.063	< 0.00025
Tetrachloroethene	mg/kg	< 0.11	< 0.00045
Toluene	mg/kg	40.4	< 0.00015
trans-1,2-Dichloroethene	mg/kg	< 0.11	< 0.00046
trans-1,3-Dichloropropene	mg/kg	< 0.073	< 0.00029
Trichloroethene	mg/kg	< 0.095	< 0.00038
Trichlorofluoromethane	mg/kg	< 0.061	< 0.00025
Vinyl chloride	mg/kg	< 0.092	< 0.00037
m,p-Xylene	mg/kg	NA	NA
o-Xylene	mg/kg	NA	NA
Xylene (total)	mg/kg	186	0.0023
Total TIC, Volatile	mg/kg	152 J	0
VOCs-Leachate			
1,1-Dichloroethene	mg/l	< 0.0017	< 0.0017
1,2-Dichloroethane	mg/l	< 0.0011	< 0.0011
1,4-Dichlorobenzene	mg/l	< 0.0015	< 0.0015
2-Butanone (MEK)	mg/l	0.196	< 0.016
Benzene	mg/l	0.0091	< 0.0024
Carbon tetrachloride	mg/l	< 0.0011	< 0.0011
Chlorobenzene	mg/l	< 0.0017	< 0.0017
Chloroform	mg/l	< 0.0012	< 0.0012
Tetrachloroethene	mg/l	< 0.0013	< 0.0013
Trichloroethene	mg/l	< 0.0025	< 0.0025
Vinyl chloride	mg/l	< 0.0026	< 0.0026

Table 12. Summary of Waste Classification Analytical Results, Operabl

Sample ID		WC-12022013	WC-120513
Sample Date		12/2/2013	12/5/2013
SVOCS			
1,1'-Biphenyl	mg/kg	0.0785	< 0.0043
1,2,4,5-TETRACHLOROBENZENE	mg/kg	NA	NA
2,4,5-Trichlorophenol	mg/kg	< 0.043	< 0.043
2,4,6-Trichlorophenol	mg/kg	< 0.034	< 0.035
2,4-Dichlorophenol	mg/kg	< 0.059	< 0.06
2,4-Dimethylphenol	mg/kg	< 0.062	< 0.062
2,4-Dinitrophenol	mg/kg	< 0.045	< 0.045
2,4-Dinitrotoluene	mg/kg	< 0.016	< 0.016
2,6-Dinitrotoluene	mg/kg	< 0.014	< 0.014
2-Chloronaphthalene	mg/kg	< 0.011	< 0.011
2-Chlorophenol	mg/kg	< 0.037	< 0.037
2-Methylnaphthalene	mg/kg	6.7	< 0.021
2-Methylphenol	mg/kg	< 0.042	< 0.042
2-Nitroaniline	mg/kg	< 0.016	< 0.016
2-Nitrophenol	mg/kg	< 0.039	< 0.039
3&4-Methylphenol	mg/kg	< 0.047	< 0.047
3,3'-Dichlorobenzidine	mg/kg	< 0.0093	< 0.0094
3-Nitroaniline	mg/kg	< 0.015	< 0.015
4,6-Dinitro-o-cresol	mg/kg	< 0.045	< 0.045
4-Bromophenyl phenyl ether	mg/kg	< 0.013	< 0.013
4-Chloro-3-methyl phenol	mg/kg	< 0.037	< 0.037
4-Chloroaniline	mg/kg	< 0.012	< 0.012
4-Chlorophenyl phenyl ether	mg/kg	< 0.011	< 0.011
4-Nitroaniline	mg/kg	< 0.014	< 0.014
4-Nitrophenol	mg/kg	< 0.062	< 0.063
Acenaphthene	mg/kg	0.0496	< 0.011
Acenaphthylene	mg/kg	< 0.012	< 0.012
Acetophenone	mg/kg	0.179 J	< 0.0065
Anthracene	mg/kg	0.0202 J	< 0.013
Atrazine	mg/kg	< 0.0072	< 0.0073
Benzaldehyde	mg/kg	< 0.0084	< 0.0085
Benzo(a)anthracene	mg/kg	0.0599	0.0463
Benzo(a)pyrene	mg/kg	0.0489	0.0454
Benzo(b)fluoranthene	mg/kg	0.0559	0.0582
Benzo(g,h,i)perylene	mg/kg	0.0366 J	0.0365 J
Benzo(k)fluoranthene	mg/kg	0.0187 J	0.0207 J
bis(2-Chloroethoxy)methane	mg/kg	< 0.015	< 0.015
bis(2-Chloroethyl)ether	mg/kg	< 0.011	< 0.011
bis(2-Chloroisopropyl)ether	mg/kg	< 0.011	< 0.011
bis(2-Ethylhexyl)phthalate	mg/kg	15.2	1.45
Butyl benzyl phthalate	mg/kg	< 0.021	< 0.021
Caprolactam	mg/kg	< 0.012	< 0.012
Carbazole	mg/kg	< 0.017	< 0.017
CHLOROPHENOLS	mg/kg	NA	NA
Chrysene	mg/kg	0.0966	0.0509
Dibenzo(a,h)anthracene	mg/kg	< 0.012	< 0.013
Dibenzofuran	mg/kg	< 0.011	< 0.011
Diethyl phthalate	mg/kg	< 0.012	< 0.013
Dimethyl phthalate	mg/kg	< 0.013	< 0.013
Di-n-butyl phthalate	mg/kg	0.252	< 0.0082
Di-n-octyl phthalate	mg/kg	< 0.018	< 0.018
Fluoranthene	mg/kg	< 0.016	0.0873
Fluorene	mg/kg	0.0386	< 0.012
Hexachlorobenzene	mg/kg	< 0.012	< 0.012
Hexachlorobutadiene	mg/kg	< 0.01	< 0.01
Hexachlorocyclopentadiene	mg/kg	< 0.037	< 0.038
Hexachloroethane	mg/kg	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	mg/kg	0.025 J	0.0509
Isophorone	mg/kg	< 0.0099	< 0.01
Naphthalene	mg/kg	15.7	< 0.01
Nitrobenzene	mg/kg	< 0.011	< 0.011
N-Nitroso-di-n-propylamine	mg/kg	< 0.0089	< 0.009
N-Nitrosodiphenylamine	mg/kg	< 0.022	< 0.022

Table 12. Summary of Waste Classification Analytical Results, Operable

Sample ID		WC-12022013	WC-120513
Sample Date		12/2/2013	12/5/2013
SVOCs cont.			
Pentachlorophenol	mg/kg	< 0.063	< 0.063
Phenanthrene	mg/kg	0.187	0.0549
Phenol	mg/kg	< 0.038	< 0.039
Pyrene	mg/kg	0.201	0.0793
PYRIDINE	mg/kg	NA	NA
Total TIC, Semi-Volatile	mg/kg	313 J	1.84 J
SVOCs-Leachate			
1,4-Dichlorobenzene	mg/l	< 0.0036	< 0.0036
2,4,5-Trichlorophenol	mg/l	< 0.016	< 0.016
2,4,6-Trichlorophenol	mg/l	< 0.013	< 0.013
2,4-Dinitrotoluene	mg/l	< 0.0043	< 0.0043
2-Methylphenol	mg/l	< 0.01	< 0.01
3&4-Methylphenol	mg/l	< 0.0093	< 0.0093
Hexachlorobenzene	mg/l	< 0.0034	< 0.0034
Hexachlorobutadiene	mg/l	< 0.0051	< 0.0051
Hexachloroethane	mg/l	< 0.0055	< 0.0055
Nitrobenzene	mg/l	< 0.0042	< 0.0042
Pentachlorophenol	mg/l	< 0.014	< 0.014
PYRIDINE	mg/l	< 0.0032	< 0.0032
PCBs			
Aroclor 1016	mg/kg	NA	NA
Aroclor 1221	mg/kg	NA	NA
Aroclor 1232	mg/kg	NA	NA
Aroclor 1242	mg/kg	NA	NA
Aroclor 1248	mg/kg	NA	NA
Aroclor 1254	mg/kg	NA	NA
Aroclor 1260	mg/kg	NA	NA
Metals-Leachate			
Arsenic	mg/l	0.016 B	0.0068 B
Barium	mg/l	2.9	2.1
Cadmium	mg/l	0.0065	0.0019 B
Chromium	mg/l	0.0037 B	0.0017 B
Lead	mg/l	62.6	0.066 B
Mercury	mg/l	< 0.000089	< 0.000089
Selenium	mg/l	0.0028 B	< 0.0024
Silver	mg/l	0.0017 B	< 0.0015
Other			
Cyanide Reactivity	mg/kg	NA	NA
Heat Content, BTU	BTU/lb	9910	375
Ignitability (Flashpoint)	Deg F	NA	NA
PETROLEUM HYDROCARBONS ABOVE C-10	mg/kg	NA	NA
pH	su	NA	NA
Sulfide Reactivity	mg/kg	NA	NA
Solids, Percent	%	85	86.5
TOTAL ORGANIC HALIDES (TOX)	mg/kg	< 22	< 22

- Notes:
- mg/kg

NA

<

B

D

E

J

R

Bold
- Milligrams per kilogram

Not Analyzed

Not detected

Result is between the method detection limit and the re

Result is based on a diluted sample analysis.

Result exceeds calibration range

Estimated Result

Rejected Result

Detection

Table 13. Summary of Paint Sludge and Impacted Soil Final Disposition, Operable Unit 1, Ramapo Paint Sludge Site, Ramapo, NY.

Disposal Facility	Method of Disposition	No. of Trucks	Total Volume (Tons)
Non Hazardous Materials			
Middlesex County Landfill East Brunswick, New Jersey	Use as Daily Cover	693	19,113
Clean Earth of New Jersey, Inc. Kearny, NJ	Subtitle "D" Landfilling	38	1,017.0
Non-Hazardous Total		731	20,130
Hazardous Materials			
Clean Earth (EQ) Kearny, NJ 07032	Subtitle "D" Landfilling	401	10,605
Michigan Disposal, Inc. Belleville, MI	Subpart 'CC/DD' Primary Chemical Oxidation Treatment and Landfilling	197	5,268.1
Michigan Disposal, Inc. Belleville, MI	Chemical treatment by 90% Reduction and Subtitle "C" Landfilling	76	2,025.1
Clean Harbors Aragonite, LLC Aragonite, Utah	Thermal Treatment and Landfilling	126	2,978.7
Hazardous Materials Total		800	20,877
Total Volume of Paint Sludge and Impacted Soil (tons)			41,007