

Table C-1
2020 RI Soil Summary Report
Soil Sample Analytical Results

1607 Surf Avenue
Brooklyn, New York
Langan Project No.: 170599501

Location Sample ID Laboratory ID Sample Date Sample Depth (feet bgs)	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Restricted Use Residential SCOs	NYSDEC Part 375 Protection of Groundwater	SB-1 SB-1_0-2_020620 L2005543-16 2/6/2020 0-2	SB-1 SB-1_2-4_020620 L2005543-17 2/6/2020 2-4	SB-1 SB-1_6-8_020620 L2005543-18 2/6/2020 6-8	SB-1 SODUP01_020620 L2005543-28 2/6/2020 6-8	SB-2 SB-2_0-2_021120 L2006176-16 2/11/2020 0-2	SB-2 SB-2_6-8_021120 L2006176-17 2/11/2020 6-8	SB-3 SB-3_0-2_020720 L2005791-01 2/7/2020 0-2	SB-3 SB-3_6-8_020720 L2005791-02 2/7/2020 6-8	SB-3 SB-3_9-11_020720 L2005791-03 2/7/2020 9-11	SB-4 SB-4_0-2_020620 L2005543-19 2/6/2020 0-2	SB-4 SB-4_6-8_020620 L2005543-20 2/6/2020 6-8	SB-4 SB-4_10-12_020620 L2005543-21 2/6/2020 10-12
Volatile Organic Compounds (mg/kg)															
1,2,4,5-Tetramethylbenzene	~	~	~	0.0022 UJ	0.66 U	0.0024 U	0.0022 U	0.0023 U	0.016 J	0.0021 UJ	0.0023 U	0.0022 U	0.11 UJ	0.0022 U	0.002 U
1,2-Dichlorobenzene	1.1	100	1.1	0.0022 UJ	0.66 U	0.0024 U	0.0022 U	0.0023 U	0.047 J	0.0021 UJ	0.0023 U	0.0022 U	0.11 UJ	0.0022 U	0.002 U
1,3,5-Trimethylbenzene (Mesitylene)	8.4	52	8.4	0.0022 UJ	0.66 U	0.0024 UJ	0.0022 U	0.0023 U	0.17 U	0.0021 UJ	0.0023 U	0.0022 U	0.11 UJ	0.0022 UJ	0.002 UJ
1,4-Dichlorobenzene	1.8	13	1.8	0.0022 UJ	0.66 U	0.0024 U	0.0022 U	0.0023 U	0.071 J	0.0021 UJ	0.0023 U	0.0022 U	0.11 UJ	0.0022 U	0.002 U
1,4-Diethyl Benzene	~	~	~	0.0022 U	0.66 U	0.0024 U	0.0022 U	0.0023 U	0.024 J	0.0021 U	0.0023 U	0.0022 U	0.11 U	0.0022 U	0.002 U
2-Hexanone	~	~	~	0.011 U	3.3 U	0.012 U	0.011 U	0.012 U	0.85 U	0.01 U	0.011 U	0.011 U	0.53 U	0.011 U	0.01 U
Acetone	0.05	100	0.05	0.011 U	3.3 U	0.012 U	0.011 U	0.011 J	0.85 U	0.01 UJ	0.011 UJ	0.011 UJ	0.53 U	0.011 U	0.025 U
Benzene	0.06	4.8	0.06	0.00056 U	0.16 U	0.00059 U	0.00055 U	0.00058 U	0.042 U	0.00052 U	0.00057 U	0.00055 U	0.026 U	0.00055 U	0.0005 U
Carbon Disulfide	~	~	~	0.011 UJ	3.3 U	0.012 UJ	0.011 U	0.012 U	0.85 U	0.01 UJ	0.011 UJ	0.011 UJ	0.53 UJ	0.011 UJ	0.01 UJ
Chloroform	0.37	49	0.37	0.00019 J	0.49 U	0.0018 U	0.0016 U	0.0017 U	0.13 U	0.00089 J	0.0017 U	0.0016 U	0.08 U	0.0016 U	0.0015 U
Cis-1,2-Dichloroethene	0.25	100	0.25	0.0011 U	0.33 U	0.0012 U	0.0011 U	0.0012 U	0.085 U	0.001 U	0.0011 U	0.0011 U	0.16 J	0.0023 U	0.0016 U
Cymene	~	~	~	0.0011 UJ	0.33 U	0.0012 U	0.0011 U	0.0012 U	0.085 U	0.001 UJ	0.0011 U	0.0011 U	0.053 UJ	0.0011 U	0.001 U
Ethylbenzene	1	41	1	0.0011 UJ	0.33 U	0.0012 UJ	0.0011 U	0.0012 U	0.085 U	0.001 U	0.0011 U	0.0011 U	0.053 UJ	0.0011 UJ	0.001 UJ
M,P-Xylene	~	~	~	0.0022 U	0.66 U	0.0024 U	0.0022 U	0.0023 U	0.17 U	0.0021 U	0.0023 U	0.0022 U	0.11 U	0.0022 U	0.002 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.12	0.011 U	3.3 U	0.012 U	0.011 U	0.012 U	0.85 U	0.01 U	0.011 U	0.011 U	0.53 U	0.011 U	0.01 U
Naphthalene	12	100	12	0.0045 UJ	1.3 U	0.0048 U	0.0044 U	0.0046 U	2.3 U	0.0042 UJ	0.0045 U	0.0044 U	0.21 UJ	0.0044 U	0.004 U
o-Xylene (1,2-Dimethylbenzene)	~	~	~	0.0011 U	0.33 U	0.0012 U	0.0011 U	0.0012 U	0.085 U	0.001 U	0.0011 U	0.0011 U	0.053 U	0.0011 U	0.001 U
Tetrachloroethene (PCE)	1.3	19	1.3	0.0013 J	75	0.0058 J	0.012 J	0.00073 J	0.042 UJ	0.0012 J	0.00057 U	0.00055 U	0.24 J	0.017 U	0.0025 U
Toluene	0.7	100	0.7	0.002 J	0.33 U	0.0012 UJ	0.0011 U	0.0012 U	0.085 U	0.001 U	0.0011 U	0.0011 U	0.053 UJ	0.0011 UJ	0.001 UJ
Total 1,2-Dichloroethene (Cis and Trans)	~	~	~	0.0011 U	0.33 U	0.0012 U	0.0011 U	0.0012 U	0.085 U	0.001 U	0.0011 U	0.0011 U	0.16 J	0.0023 U	0.0016 U
Total Xylenes	0.26	100	1.6	0.0011 U	0.33 U	0.0012 U	0.0011 U	0.0012 U	0.085 U	0.001 U	0.0011 U	0.0011 U	0.053 U	0.0011 U	0.001 U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.0017 U	0.49 U	0.0018 U	0.0016 U	0.0017 U	0.13 U	0.0016 U	0.0017 U	0.0016 U	0.08 U	0.0016 U	0.0015 U
Trichloroethene (TCE)	0.47	21	0.47	0.00056 U	0.29 U	0.00059 U	0.00036 J	0.00058 U	0.042 U	0.00052 U	0.00057 U	0.00055 U	0.026 U	0.0018 U	0.00028 J
Vinyl Chloride	0.02	0.9	0.02	0.0011 UJ	0.33 U	0.0012 UJ	0.0011 U	0.0012 U	0.085 U	0.001 UJ	0.0011 U	0.0011 U	0.053 UJ	0.0011 UJ	0.001 UJ
Semivolatile Organic Compounds (mg/kg)															
2-Methylnaphthalene	~	~	~	4.1 U	0.32 J	0.22 U	0.23 U	2.1 U	1.2 J	2.1 U	0.24 U	0.25 U	6.1 U	0.23 U	0.25 U
3 & 4 Methylphenol (m&p Cresol)	0.33	100	0.33	5 U	2.7 U	0.27 U	0.28 U	2.6 U	3 U	2.6 U	0.28 U	0.3 U	7.3 U	0.28 U	0.3 U
Acenaphthene	20	100	98	2.8 U	0.8 J	0.15 U	0.16 U	1.4 U	5.6 U	1.4 U	0.16 U	0.17 U	4.1 U	0.16 U	0.16 U
Acenaphthylene	100	100	107	2.8 U	0.51 J	0.15 U	0.16 U	1.4 U	4.1 U	1.4 U	0.16 U	0.17 U	4.1 U	0.16 U	0.16 U
Anthracene	100	100	1000	2.1 U	2.3 U	0.11 U	0.12 U	1.1 U	14 U	1.1 U	0.12 U	0.13 U	3 U	0.12 U	0.12 U
Benzo(a)Anthracene	1	1	1	2.1 U	5.8	0.065 J	0.1 J	1.7 U	36	0.4 J	0.12 U	0.13 U	3 U	0.12 U	0.12 U
Benzo(a)Pyrene	1	1	22	2.8 U	5.4	0.075 J	0.099 J	1.4 U	34	0.49 J	0.16 U	0.17 U	4.1 U	0.16 U	0.16 U
Benzo(b)Fluoranthene	1	1	1.7	2.1 U	7	0.1 J	0.12 U	1.7 U	43	0.62 J	0.12 U	0.13 U	3 U	0.12 U	0.12 U
Benzo(g,h,i)Perylene	100	100	1000	2.8 U	3.4 U	0.057 J	0.07 J	1.4 U	19 U	0.46 J	0.16 U	0.17 U	4.1 U	0.16 U	0.16 U
Benzo(k)Fluoranthene	0.8	3.9	1.7	2.1 U	2.6	0.033 J	0.053 J	1.7 U	15	1.7 U	0.12 U	0.13 U	3 U	0.12 U	0.12 U
Benzyl Butyl Phthalate	~	~	~	3.4 U	1.9 U	0.19 U	0.19 U	1.8 U	2.1 U	1.8 U	0.2 U	0.21 U	5.1 U	0.2 U	0.2 U
Biphenyl (Diphenyl)	~	~	~	7.9 U	4.3 U	0.42 U	0.44 U	4.1 U	4.8 U	4 U	0.45 U	0.48 U	12 U	0.44 U	0.47 U
Bis(2-Ethylhexyl) Phthalate	~	~	~	3.4 U	1.9 U	0.19 U	0.19 U	1.8 U	2.1 U	1.8 U	0.2 U	0.21 U	5.1 U	0.2 U	0.2 U
Carbazole	~	~	~	3.4 U	1.5 J	0.19 U	0.19 U	1.8 U	3.9 U	1.8 U	0.2 U	0.21 U	5.1 U	0.2 U	0.2 U
Chrysene	1	3.9	1	2.1 U	5.3	0.07 J	0.11 J	1.7 U	32	0.45 J	0.12 U	0.13 U	3 U	0.12 U	0.12 U
Dibenz(a,h)Anthracene	0.33	0.33	1000	2.1 U	0.88	0.11 U	0.12 U	1.7 U	4.3	1.7 U	0.12 U	0.13 U	3 U	0.12 U	0.12 U
Dibenzofuran	7	59	210	3.4 U	0.69 J	0.19 U	0.19 U	1.8 U	2.8 U	1.8 U	0.2 U	0.21 U	5.1 U	0.2 U	0.2 U
Di-N-Butyl Phthalate	~	~	~	3.4 U	0.62 J	0.19 U	0.19 U	1.8 U	2.1 U	1.8 U	0.2 U	0.21 U	5.1 U	0.2 U	0.2 U
Fluoranthene	100	100	1000	2.1 U	12 U	0.13 U	0.2 U	1.1 U	74 U	0.73 J	0.12 U	0.13 U	3 U	0.12 U	0.12 U
Fluorene	30	100	386	3.4 U	0.87 J	0.19 U	0.19 U	1.8 U	5.9 U	1.8 U	0.2 U	0.21 U	5.1 U	0.2 U	0.2 U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	8.2	2.8 U	3.7	0.054 J	0.07 J	1.4 U	21	0.37 J	0.16 U	0.17 U	4.1 U	0.16 U	0.16 U
Naphthalene	12	100	12	3.4 U	0.72 J	0.19 U	0.19 U	1.8 U	3.4 U	1.8 U	0.2 U	0.21 U	5.1 U	0.2 U	0.2 U
Pentachlorophenol	0.8	6.7	0.8	2.8 U	1.5 U	0.15 U	0.16 U	1.4 U	1.7 U	1.4 U	0.16 UJ	0.17 UJ	4.1 U	0.16 U	0.16 U
Phenanthrene	100	100	1000	2.1 U	9.5 U	0.084 J	0.14 U	1.1 U	45 U	0.5 J	0.12 U	0.13 U	3 U	0.12 U	0.12 U
Phenol	0.33	100	0.33	3.4 U	1.9 U	0.19 U	0.19 U	1.8 U	2.7 U	1.8 U	0.2 U	0.21 U	5.1 U	0.2 U	0.2 U
Pyrene	100	100	1000	2.1 U	9.8 U	0.12 J	0.22 J	1.1 U	61 U	0.69 J	0.12 U	0.13 U	3 U	0.12 U	0.12 U

Table C-1
2020 RI Soil Summary Report
Soil Sample Analytical Results

1607 Surf Avenue
Brooklyn, New York
Langan Project No.: 170599501

Location Sample ID Laboratory ID Sample Date Sample Depth (feet bgs)	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Restricted Use Residential SCOs	NYSDEC Part 375 Protection of Groundwater	SB-1 SB-1_0-2_020620 L2005543-16 2/6/2020 0-2	SB-1 SB-1_2-4_020620 L2005543-17 2/6/2020 2-4	SB-1 SB-1_6-8_020620 L2005543-18 2/6/2020 6-8	SB-1 SODUP01_020620 L2005543-28 2/6/2020 6-8	SB-2 SB-2_0-2_021120 L2006176-16 2/11/2020 0-2	SB-2 SB-2_6-8_021120 L2006176-17 2/11/2020 6-8	SB-3 SB-3_0-2_020720 L2005791-01 2/7/2020 0-2	SB-3 SB-3_6-8_020720 L2005791-02 2/7/2020 6-8	SB-3 SB-3_9-11_020720 L2005791-03 2/7/2020 9-11	SB-4 SB-4_0-2_020620 L2005543-19 2/6/2020 0-2	SB-4 SB-4_6-8_020620 L2005543-20 2/6/2020 6-8	SB-4 SB-4_10-12_020620 L2005543-21 2/6/2020 10-12
Pesticides (mg/kg)															
4,4'-DDD	0.0033	13	14	0.0163 U	0.00494	0.00174 U	0.00182 U	0.0168 U	0.00748 J	0.00823 UJ	0.00183 UJ	0.00198 UJ	0.0158 U	0.00179 U	0.0019 U
4,4'-DDE	0.0033	8.9	17	0.0163 U	0.00398	0.00174 U	0.00182 U	0.0168 U	0.0116 J	0.00268 J	0.00183 UJ	0.00198 UJ	0.0158 U	0.00179 U	0.0019 U
4,4'-DDT	0.0033	7.9	136	0.0306 U	0.0112	0.00327 U	0.00341 U	0.0314 U	0.00799 J	0.0154 UJ	0.00343 UJ	0.0037 UJ	0.0297 U	0.00336 U	0.00356 U
Alpha Chlordane	0.094	4.2	2.9	0.0204 U	0.00103 J	0.00218 U	0.00227 U	0.0209 U	0.00252 U	0.0103 U	0.00229 U	0.00247 U	0.0198 U	0.00224 U	0.00237 U
Chlordane (alpha and gamma)	~	~	~	0.136 U	0.0151 U	0.0145 U	0.0151 U	0.14 U	0.0168 U	0.0686 U	0.0152 U	0.0165 U	0.132 U	0.0149 U	0.0158 U
Dieldrin	0.005	0.2	0.1	0.0102 U	0.00113 U	0.00109 U	0.00114 U	0.0105 U	0.00126 U	0.00514 UJ	0.00114 UJ	0.00124 UJ	0.00991 U	0.00112 U	0.00119 U
Gamma Chlordane	~	~	~	0.0204 U	0.00145 J	0.00218 U	0.00227 U	0.0209 U	0.00252 U	0.0103 UJ	0.00229 UJ	0.00247 UJ	0.0198 U	0.00224 U	0.00237 U
Heptachlor	0.042	2.1	0.38	0.00815 U	0.000905 U	0.000871 U	0.000909 U	0.00838 U	0.00101 U	0.00411 UJ	0.000916 UJ	0.000988 UJ	0.00793 U	0.000896 U	0.00095 U
Heptachlor Epoxide	~	~	~	0.0306 U	0.00339 U	0.00327 U	0.00341 U	0.0314 U	0.00378 U	0.0154 U	0.00343 U	0.0037 U	0.0297 U	0.00336 U	0.00356 U
Toxaphene	~	~	~	0.306 U	0.0339 U	0.0327 U	0.0341 U	0.314 UJ	0.0378 UJ	0.154 U	0.0343 U	0.037 U	0.297 U	0.0336 U	0.0356 U
Herbicides (mg/kg)															
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polychlorinated Biphenyls (mg/kg)															
PCB-1242 (Aroclor 1242)	~	~	~	0.0348 U	0.038 U	0.0364 U	0.0376 U	0.0343 U	0.04 U	0.0339 U	0.0375 U	0.0409 U	0.0328 U	0.0384 U	0.0396 U
PCB-1254 (Aroclor 1254)	~	~	~	0.00586 J	0.0277 J	0.0364 U	0.0376 U	0.0343 U	0.0193 J	0.0339 U	0.0375 U	0.0409 U	0.0328 U	0.0384 U	0.0396 U
PCB-1260 (Aroclor 1260)	~	~	~	0.0348 U	0.0366 J	0.0364 U	0.0376 U	0.0343 U	0.0174 J	0.0181 J	0.0375 U	0.0409 U	0.0328 U	0.0384 U	0.0396 U
PCB-1268 (Aroclor 1268)	~	~	~	0.0348 U	0.038 U	0.0364 U	0.0376 U	0.0343 U	0.04 U	0.0339 U	0.0375 U	0.0409 U	0.0328 U	0.0384 U	0.0396 U
Total PCBs	0.1	1	3.2	0.00586 J	0.0643 J	0.0364 U	0.0376 U	0.0343 U	0.0367 J	0.0181 J	0.0375 U	0.0409 U	0.0328 U	0.0384 U	0.0396 U
Inorganics (mg/kg)															
Aluminum	~	~	~	1,830	3,430	549	550	997	6,260	1,750	602	918	1,140	620	887
Antimony	~	~	~	0.606 J	3.47 J	2.91 J	2.5 J	4.28 U	0.916 J	0.632 J	4.54 U	5.05 U	0.553 J	4.7 U	4.66 U
Arsenic	13	16	16	2.19	5.11	0.361 J	0.907 UJ	1.34	4.9	1.52	0.717 J	0.788 J	1.88	0.357 J	0.55 J
Barium	350	400	820	9.07	730	5.96 J	7.61 J	9.21	356	17.2	6.18	2.4	7.9	3.71	3.54
Beryllium	7.2	72	47	0.083 J	0.281 J	0.035 J	0.454 UJ	0.094 J	0.376 J	0.186 J	0.045 J	0.061 J	0.087 J	0.038 J	0.466 U
Cadmium	2.5	4.3	7.5	0.158 J	10.4	0.088 J	0.907 UJ	0.855 U	0.224 J	0.186 J	0.908 U	1.01 U	0.134 J	0.103 J	0.932 U
Calcium	~	~	~	90,800	28,300	414 J	404 J	94,200	36,400	17,000	444	233	106,000	369	719 J
Chromium, Hexavalent	1	110	19	0.843 U	0.926 U	0.901 U	0.938 U	0.87 U	0.394 J	0.857 U	0.394 J	1.02 U	0.833 U	0.944 U	0.991 UJ
Chromium, Total	~	~	~	5.33	11.9	4.51 J	3.34 J	2.65	18.1	6.44	4.27	2.55	3.4 U	3.64 U	5.94
Chromium, Trivalent	~	~	~	5.3	12	4.5 J	3.3 J	2.6	18	6.4	3.9 J	2.6	3.4	3.6	5.9
Cobalt	~	~	~	2.67	3.68	0.563 J	0.517 J	1.51 J	3.51	3.62	0.608 J	0.889 J	2.13	0.648 J	0.997 J
Copper	50	270	1720	12.9	39.6	2.07 J	3.93 J	6.83	42.8	17.9	1.71	1.82	6.51	0.705 J	1.78
Cyanide	27	27	40	0.96 U	0.48 J	1.1 U	1.1 U	1	0.43 J	1	1.1 UJ	1.2 UJ	1	1.1 U	1.2 U
Iron	~	~	~	5,790	10,100	1,100 J	1,080 J	3,760	8,850	10,600	1,380	1,830	4,640	1,200	2,010
Lead	63	400	450	7.7	3,110	28.6 J	38.1 J	11.5	193	22.3	5.29	0.92 J	6.2	1.9 J	1.4 J
Magnesium	~	~	~	41,500	10,000	230 J	245 J	50,300	3,460	9,620	259	436	47,400	267	492
Manganese	1600	2000	2000	109	181	12.8 J	11.8 J	93.3	156	55.8	15.7	13.8	107	15.4	19
Mercury	0.18	0.81	0.73	0.086 U	0.262	0.081 U	0.094 U	0.069 U	0.113	0.077 U	0.096 U	0.101 U	0.07 U	0.097 U	0.1 U
Nickel	30	310	130	4.99	15.1	2.2 UJ	1.26 J	3.12	16.9	6.38	1.1 J	3.71	3.98	2.35 U	4.07 U
Potassium	~	~	~	281	457	105 J	114 J	298	612	501	110 J	137 J	280	112 J	167 J
Selenium	3.9	180	4	0.614 J	0.416 J	1.76 UJ	0.272 J	1.71 U	2.04 U	1.62 U	1.82 U	2.02 U	0.435 J	1.88 U	1.86 U
Silver	2	180	8.3	0.83 U	0.462 J	0.88 U	0.907 U	0.855 U	1.02 U	0.81 U	0.908 U	1.01 U	0.79 U	0.94 U	0.932 U
Sodium	~	~	~	220	181 U	176 UJ	33.8	81.9 J	505	102 J	27.2 J	47.3 J	188	188	66.8 J
Vanadium	~	~	~	36.3	20.8	2.69	2.55	19.4	19.8	29.9	3.63	3.76	25.8	3.06	3.67
Zinc	109	10000	2480	30.1	619	52.8	57.2	13.7	361	78.8	56.6	16	14.9	42.6	28.9
General Chemistry (%)															
Solids, Percent	~	~	~	94.9	86.4	88.8	85.3	91.9	78.6	93.3	83.8	78.1	96	84.7	80.7
Total Solids	~	~	~	94.9	86.4	88.8	85.3	91.9	78.6	93.3	83.8	78.1	96	84.7	80.7

Table C-1
2020 RI Soil Summary Report
Soil Sample Analytical Results

1607 Surf Avenue
Brooklyn, New York
Langan Project No.: 170599501

Location Sample ID Laboratory ID Sample Date Sample Depth (feet bgs)	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Restricted Use Residential SCOs	NYSDEC Part 375 Protection of Groundwater	SB-5 SB-5_0-2_020620 L2005543-13 2/6/2020 0-2	SB-5 SB-5_5-7_020620 L2005543-14 2/6/2020 5-7	SB-5 SB-5_10-12_020620 L2005543-15 2/6/2020 10-12	SB-6 SB-6_0-2_021120 L2006176-01 2/11/2020 0-2	SB-6 SB-6_5-7_021120 L2006176-02 2/11/2020 5-7	SB-6 SB-6_9-11_021120 L2006176-03 2/11/2020 9-11	SB-6 SODUP03_021120 L2006176-20 2/11/2020 9-11	SB-7 SB-7_0-2_020720 L2005791-04 2/7/2020 0-2	SB-7 SB-7_5-7_020720 L2005791-05 2/7/2020 5-7	SB-7 SB-7_9-11_020720 L2005791-06 2/7/2020 9-11	SB-8 SB-8_0-2_020620 L2005543-22 2/6/2020 0-2	SB-8 SB-8_5-7_020620 L2005543-23 2/6/2020 5-7	SB-8 SB-8_10-12_020620 L2005543-24 2/6/2020 10-12	
Volatile Organic Compounds (mg/kg)																	
1,2,4,5-Tetramethylbenzene	~	~	~	0.0023 UJ	0.0025 U	0.002 U	0.0021 U	0.0019 U	0.002 U	0.0022 U	0.0028 UJ	0.0024 U	0.0024 U	0.0021 UJ	0.0024 U	0.002 U	
1,2-Dichlorobenzene	1.1	100	1.1	0.0023 UJ	0.0025 U	0.002 U	0.0021 U	0.0019 U	0.002 U	0.0022 U	0.0028 UJ	0.0024 U	0.0024 U	0.0021 UJ	0.0024 U	0.002 U	
1,3,5-Trimethylbenzene (Mesitylene)	8.4	52	8.4	0.0023 UJ	0.0025 UJ	0.002 UJ	0.0021 U	0.0019 U	0.002 U	0.0022 U	0.0028 UJ	0.0024 U	0.0024 U	0.0021 UJ	0.0024 U	0.002 U	
1,4-Dichlorobenzene	1.8	13	1.8	0.0023 UJ	0.0025 U	0.002 U	0.0021 U	0.0019 U	0.002 U	0.0022 U	0.0028 UJ	0.0024 U	0.0024 U	0.0021 UJ	0.0024 U	0.002 U	
1,4-Diethyl Benzene	~	~	~	0.0023 U	0.0025 U	0.002 U	0.0021 U	0.0019 U	0.002 U	0.0022 U	0.0028 U	0.0024 U	0.0024 U	0.0021 U	0.0024 U	0.002 U	
2-Hexanone	~	~	~	0.012 U	0.012 U	0.01 U	0.011 U	0.0097 U	0.0099 U	0.011 U	0.014 U	0.012 U	0.012 U	0.0019 J	0.012 U	0.01 U	
Acetone	0.05	100	0.05	0.022 U	0.012 U	0.011 U	0.025 J	0.0097 U	0.014 J	0.04 J	0.014 UJ	0.012 UJ	0.012 UJ	0.044 J	0.012 U	0.019 U	
Benzene	0.06	4.8	0.06	0.00058 U	0.00062 U	0.00051 U	0.00026 J	0.00048 U	0.00049 U	0.00055 U	0.0007 U	0.00059 U	0.00059 U	0.00052 U	0.00061 U	0.00051 U	
Carbon Disulfide	~	~	~	0.012 UJ	0.012 UJ	0.01 UJ	0.011 U	0.0097 U	0.0099 UJ	0.024 J	0.014 UJ	0.012 UJ	0.012 UJ	0.01 U	0.012 U	0.0055 J	
Chloroform	0.37	49	0.37	0.0018 U	0.0018 U	0.00039 J	0.0016 U	0.0014 U	0.0015 U	0.0016 U	0.0021 U	0.0018 U	0.0018 U	0.0016 U	0.0018 U	0.0015 U	
Cis-1,2-Dichloroethene	0.25	100	0.25	0.0012 U	0.0012 U	0.001 U	0.0011 U	0.00097 U	0.00099 U	0.0011 U	0.0014 U	0.0012 U	0.0012 U	0.001 U	0.0012 U	0.001 U	
Cymene	~	~	~	0.0012 UJ	0.0012 U	0.001 U	0.0011 U	0.00097 U	0.00099 U	0.0011 U	0.0014 UJ	0.0012 U	0.0012 U	0.001 UJ	0.0012 U	0.001 U	
Ethylbenzene	1	41	1	0.0012 UJ	0.0012 UJ	0.001 UJ	0.0011 U	0.00097 U	0.00099 U	0.0011 U	0.0014 U	0.0012 U	0.0012 U	0.001 U	0.0012 U	0.001 U	
M,P-Xylene	~	~	~	0.0023 U	0.0025 U	0.002 U	0.0021 U	0.0019 U	0.002 U	0.0022 U	0.0028 U	0.0024 U	0.0024 U	0.0021 U	0.0024 U	0.002 U	
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.12	0.012 U	0.012 U	0.01 U	0.011 U	0.0097 U	0.0099 UJ	0.0059 J	0.014 U	0.012 U	0.012 U	0.012 J	0.012 U	0.0038 J	
Naphthalene	12	100	12	0.0047 UJ	0.0049 U	0.0041 U	0.0042 U	0.0039 U	0.004 U	0.0044 U	0.0014 J	0.0047 U	0.0047 U	0.0042 UJ	0.0049 U	0.0041 U	
o-Xylene (1,2-Dimethylbenzene)	~	~	~	0.0012 U	0.0012 U	0.001 U	0.0011 U	0.00097 U	0.00099 U	0.0011 U	0.0014 U	0.0012 U	0.0012 U	0.001 U	0.0012 U	0.001 U	
Tetrachloroethene (PCE)	1.3	19	1.3	0.00058 U	0.00062 U	0.00051 U	0.00053 UJ	0.00048 UJ	0.00049 UJ	0.00055 UJ	0.0007 U	0.00059 U	0.00059 U	0.00052 U	0.00061 U	0.00051 U	
Toluene	0.7	100	0.7	0.0012 UJ	0.0012 UJ	0.001 UJ	0.0011 U	0.00097 U	0.00099 U	0.0011 U	0.0014 U	0.0012 U	0.0012 U	0.001 U	0.0012 U	0.001 U	
Total 1,2-Dichloroethene (Cis and Trans)	~	~	~	0.0012 U	0.0012 U	0.001 U	0.0011 U	0.00097 U	0.00099 U	0.0011 U	0.0014 U	0.0012 U	0.0012 U	0.001 U	0.0012 U	0.001 U	
Total Xylenes	0.26	100	1.6	0.0012 U	0.0012 U	0.001 U	0.0011 U	0.00097 U	0.00099 U	0.0011 U	0.0014 U	0.0012 U	0.0012 U	0.001 U	0.0012 U	0.001 U	
Trans-1,2-Dichloroethene	0.19	100	0.19	0.0018 U	0.0018 U	0.0015 U	0.0016 U	0.0014 U	0.0015 U	0.0016 U	0.0021 U	0.0018 U	0.0018 U	0.0016 U	0.0018 U	0.0015 U	
Trichloroethene (TCE)	0.47	21	0.47	0.00058 U	0.00062 U	0.00051 U	0.00053 U	0.00048 U	0.00049 U	0.00055 U	0.0007 U	0.00059 U	0.00059 U	0.00052 U	0.00061 U	0.00051 U	
Vinyl Chloride	0.02	0.9	0.02	0.0012 UJ	0.0012 UJ	0.001 UJ	0.0011 U	0.00097 U	0.00099 U	0.0011 U	0.0014 UJ	0.0012 U	0.0012 U	0.001 U	0.0012 U	0.001 U	
Semivolatile Organic Compounds (mg/kg)																	
2-Methylnaphthalene	~	~	~	2 U	0.22 U	0.24 U	2.2 U	0.024 J	0.24 U	0.25 U	3.7 U	0.21 U	0.24 U	6.1 U	0.22 U	0.24 U	
3 & 4 Methylphenol (m&p Cresol)	0.33	100	0.33	2.4 U	0.27 U	0.29 U	2.6 U	0.27 U	0.28 U	0.3 U	0.6 J	0.26 U	0.29 U	7.3 U	0.27 U	0.29 U	
Acenaphthene	20	100	98	1.4 U	0.15 U	0.022 J	1.4 U	0.06 J	0.16 U	0.16 U	10 U	0.14 U	0.037 J	4.1 U	0.15 U	0.16 U	
Acenaphthylene	100	100	107	1.4 U	0.15 U	0.16 U	1.4 U	0.15 U	0.16 U	0.16 U	0.3 J	0.14 U	0.16 U	4.1 U	0.15 U	0.16 U	
Anthracene	100	100	1000	1 U	0.11 U	0.046 J	1.1 U	0.16 U	0.12 U	0.12 U	14 U	0.11 U	0.055 J	3 U	0.11 U	0.12 U	
Benzo(a)Anthracene	1	1	1	1 U	0.095 J	0.14 U	0.24 J	0.51 U	0.065 J	0.072 J	22 U	0.023 J	0.09 J	3 U	0.11 U	0.023 J	
Benzo(a)Pyrene	1	1	22	1.4 U	0.086 J	0.12 J	1.4 U	0.54 U	0.073 J	0.076 J	21 U	0.14 U	0.083 J	4.1 U	0.15 U	0.16 U	
Benzo(b)Fluoranthene	1	1	1.7	1 U	0.12 U	0.15 U	0.34 J	0.66 U	0.09 J	0.16 J	26 U	0.11 U	0.098 J	3 U	0.11 U	0.12 U	
Benzo(g,h,i)Perylene	100	100	1000	1.4 U	0.054 J	0.057 J	0.25 J	0.32 U	0.046 J	0.054 J	12 U	0.14 U	0.046 J	4.1 U	0.15 U	0.16 U	
Benzo(k)Fluoranthene	0.8	3.9	1.7	7 U	0.046 J	0.058 J	1.7 U	0.22 U	0.033 J	0.049 J	8.2 U	0.11 U	0.041 J	3 U	0.11 U	0.12 U	
Benzyl Butyl Phthalate	~	~	~	1.7 U	0.19 U	0.2 U	1.8 U	0.19 U	0.2 U	0.2 U	1.9 U	0.18 U	0.2 U	5.1 U	0.19 U	0.2 U	
Biphenyl (Diphenyl)	~	~	~	3.9 U	0.43 U	0.46 U	4.2 U	0.43 U	0.45 U	0.47 U	0.9 J	0.4 U	0.47 U	12 U	0.42 U	0.46 U	
Bis(2-Ethylhexyl) Phthalate	~	~	~	1.7 U	0.19 U	0.2 U	1.8 U	0.19 U	0.2 U	0.2 U	1.9 U	0.18 U	0.2 U	5.1 U	0.19 U	0.2 U	
Carbazole	~	~	~	1.7 U	0.19 U	0.2 U	1.8 U	0.11 J	0.2 U	0.2 U	7.3 U	0.18 U	0.028 J	5.1 U	0.19 U	0.2 U	
Chrysene	1	3.9	1	1 U	0.1 J	0.12 U	0.28 J	0.53 U	0.076 J	0.22 J	19 U	0.018 J	0.08 J	3 U	0.11 U	0.12 U	
Dibenz(a,h)Anthracene	0.33	0.33	1000	7 U	0.11 U	0.12 U	1.7 U	0.077 J	0.12 UJ	0.044 J	3.2 U	0.11 U	0.12 U	3 U	0.11 U	0.12 U	
Dibenzofuran	7	59	210	1.7 U	0.19 U	0.022 J	1.8 U	0.06 J	0.2 U	0.2 U	5.4 U	0.18 U	0.02 J	5.1 U	0.19 U	0.2 U	
Di-N-Butyl Phthalate	~	~	~	1.7 U	0.19 U	0.2 U	1.8 U	0.19 U	0.2 U	0.2 U	1.9 U	0.18 U	0.2 U	5.1 U	0.19 U	0.2 U	
Fluoranthene	100	100	1000	1 U	0.21 U	0.28 U	0.46 J	1.3 U	0.14 U	0.11 J	48 U	0.044 J	0.2 U	3 U	0.11 U	0.041 J	
Fluorene	30	100	386	1.7 U	0.19 U	0.2 U	1.8 U	0.081 J	0.2 U	0.2 U	8.7 U	0.18 U	0.033 J	5.1 U	0.19 U	0.2 U	
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	8.2	1.4 U	0.056 J	0.056 J	1.4 U	0.35 U	0.048 J	0.049 J	13 U	0.14 U	0.053 J	4.1 U	0.15 U	0.16 U	
Naphthalene	12	100	12	1.7 U	0.19 U	0.028 J	1.8 U	0.037 J	0.2 U	0.2 U	15 U	0.18 U	0.049 J	5.1 U	0.19 U	0.2 U	
Pentachlorophenol	0.8	6.7	0.8	1.4 U	0.15 U	0.16 U	1.4 U	0.15 U	0.16 U	0.16 U	1.5 UJ	0.14 UJ	0.16 UJ	4.1 U	0.15 U	0.16 U	
Phenanthrene	100	100	1000	1 U	0.13 U	0.14 U	0.22 J	1 U	0.072 J	0.062 J	47 U	0.044 J	0.19 U	3 U	0.11 U	0.024 J	
Phenol	0.33	100	0.33	1.7 U	0.19 U	0.2 U	1.8 U	0.19 U	0.2 U	0.2 U	0.29 J	0.18 U	0.2 U	5.1 U	0.19 U	0.2 U	
Pyrene	100	100	1000	1 U	0.17 U	0.26 U	0.42 J	1 U	0.14 U	0.16 U	37 U	0.034 J	0.15 U	3 U	0.11 U	0.036 J	

Table C-1
2020 RI Soil Summary Report
Soil Sample Analytical Results

1607 Surf Avenue
Brooklyn, New York
Langan Project No.: 170599501

Location Sample ID Laboratory ID Sample Date Sample Depth (feet bgs)	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Restricted Use Residential SCOs	NYSDEC Part 375 Protection of Groundwater	SB-5 SB-5_0-2_020620 L2005543-13 2/6/2020 0-2	SB-5 SB-5_5-7_020620 L2005543-14 2/6/2020 5-7	SB-5 SB-5_10-12_020620 L2005543-15 2/6/2020 10-12	SB-6 SB-6_0-2_021120 L2006176-01 2/11/2020 0-2	SB-6 SB-6_5-7_021120 L2006176-02 2/11/2020 5-7	SB-6 SB-6_9-11_021120 L2006176-03 2/11/2020 9-11	SB-6 SODUP03_021120 L2006176-20 2/11/2020 9-11	SB-7 SB-7_0-2_020720 L2005791-04 2/7/2020 0-2	SB-7 SB-7_5-7_020720 L2005791-05 2/7/2020 5-7	SB-7 SB-7_9-11_020720 L2005791-06 2/7/2020 9-11	SB-8 SB-8_0-2_020620 L2005543-22 2/6/2020 0-2	SB-8 SB-8_5-7_020620 L2005543-23 2/6/2020 5-7	SB-8 SB-8_10-12_020620 L2005543-24 2/6/2020 10-12
Pesticides (mg/kg)																
4,4'-DDD	0.0033	13	14	0.0157 U	0.00179 U	0.00197 U	0.0174 U	0.00175 U	0.00188 U	0.00194 U	0.0286 J	0.00164 UJ	0.00187 UJ	0.0158 U	0.0017 U	0.00186 UJ
4,4'-DDE	0.0033	8.9	17	0.0157 U	0.00179 U	0.00197 U	0.0174 U	0.00215 U	0.00188 U	0.00194 U	0.163 J	0.00164 UJ	0.00105 J	0.0158 U	0.0017 U	0.00186 UJ
4,4'-DDT	0.0033	7.9	136	0.0294 U	0.00336 U	0.0037 U	0.0326 U	0.00374 U	0.00353 U	0.00364 U	0.242 J	0.00308 UJ	0.0035 UJ	0.0297 U	0.00318 U	0.00349 U
Alpha Chlordane	0.094	4.2	2.9	0.0196 U	0.00224 U	0.00247 U	0.0218 U	0.00219 U	0.00235 U	0.00243 U	0.0116 U	0.00205 U	0.00233 U	0.0198 U	0.00212 U	0.00233 U
Chlordane (alpha and gamma)	~	~	~	0.131 U	0.015 U	0.0164 U	0.145 U	0.0146 U	0.0157 U	0.0162 U	0.0771 U	0.0137 U	0.0156 U	0.132 U	0.0141 U	0.0155 U
Dieldrin	0.005	0.2	0.1	0.0098 U	0.00112 U	0.00123 U	0.0109 U	0.0011 U	0.00118 U	0.00121 U	0.00578 UJ	0.00102 UJ	0.00117 UJ	0.00989 U	0.00106 U	0.00116 UJ
Gamma Chlordane	~	~	~	0.0196 U	0.00224 U	0.00247 U	0.0218 U	0.00219 U	0.00235 U	0.00243 U	0.0116 UJ	0.00205 UJ	0.00233 UJ	0.0198 U	0.00212 U	0.00233 U
Heptachlor	0.042	2.1	0.38	0.00784 U	0.000897 U	0.000987 U	0.0087 U	0.000877 U	0.000941 U	0.000971 U	0.00462 UJ	0.00082 UJ	0.000933 UJ	0.00791 U	0.000848 U	0.000931 U
Heptachlor Epoxide	~	~	~	0.0294 U	0.00336 U	0.0037 U	0.0326 U	0.00329 U	0.00353 U	0.00364 U	0.0173 U	0.00308 U	0.0035 U	0.0297 U	0.00318 U	0.00349 U
Toxaphene	~	~	~	0.294 U	0.135 P	0.037 U	0.326 UJ	0.0329 UJ	0.0353 UJ	0.0364 U	0.173 U	0.0308 U	0.035 U	0.297 U	0.0318 U	0.0349 U
Herbicides (mg/kg)																
Polychlorinated Biphenyls (mg/kg)																
PCB-1242 (Aroclor 1242)	~	~	~	0.0329 U	0.0376 U	0.0408 U	0.0363 U	0.0366 U	0.04 U	0.0409 U	0.0381 U	0.0343 U	0.0405 U	0.0337 U	0.0362 U	0.0388 U
PCB-1254 (Aroclor 1254)	~	~	~	0.0036 J	0.0376 U	0.0408 U	0.0363 U	0.0366 U	0.04 U	0.0409 U	0.0381 U	0.0343 U	0.0405 U	0.0337 U	0.0362 U	0.0388 U
PCB-1260 (Aroclor 1260)	~	~	~	0.0329 U	0.0376 U	0.0408 U	0.0623 U	0.0366 U	0.04 U	0.0409 U	0.00917 J	0.0343 U	0.0405 U	0.0337 U	0.0362 U	0.0388 U
PCB-1268 (Aroclor 1268)	~	~	~	0.0329 U	0.0376 U	0.0408 U	0.0363 U	0.0366 U	0.04 U	0.0409 U	0.0381 U	0.0343 U	0.0405 U	0.0337 U	0.0362 U	0.0388 U
Total PCBs	0.1	1	3.2	0.0036 J	0.0376 U	0.0408 U	0.0623 U	0.0366 U	0.04 U	0.0409 U	0.00917 J	0.0343 U	0.0405 U	0.0337 U	0.0362 U	0.0388 U
Inorganics (mg/kg)																
Aluminum	~	~	~	1,330	1,460	1,580	1,740	2,720	918 J	1,050 J	1,880	470	911	1,830	448	1,100
Antimony	~	~	~	0.669 J	4.5 U	0.598 J	4.48 U	4.43 U	4.79 U	4.99 U	0.556 J	4.18 U	4.73 U	3.94 U	4.43 U	4.68 U
Arsenic	13	16	16	2.28	1.33	1.46	1.85	2.13	0.738 J	0.838 J	2.89	0.669 J	0.7 J	2.93	0.248 J	0.804 J
Barium	350	400	820	9	8.01	5.62	16.2	27.1	6.82 J	8.59 J	19.7	2.07	2.59	9.94	5.51	3.66
Beryllium	7.2	72	47	0.074 J	0.072 J	0.08 J	0.143 J	0.097 J	0.479 UJ	0.04 J	0.188 J	0.034 J	0.038 J	0.095 J	0.443 U	0.468 U
Cadmium	2.5	4.3	7.5	0.149 J	0.135 J	0.997 U	0.895 U	0.886 U	0.959 U	0.998 U	0.17 J	0.837 U	0.946 U	0.789 U	0.886 U	0.935 U
Calcium	~	~	~	101,000	1,200	1,410	104,000	8,780	1,030 J	3,020 J	28,700	318	347	89,400	331	488
Chromium, Hexavalent	1	110	19	0.826 U	0.913 U	1 U	0.902 U	0.915 U	0.368 J	0.468 J	0.942 U	0.865 U	0.989 U	0.838 U	0.901 U	0.966 U
Chromium, Total	~	~	~	2.45 U	4.64	4.4	4.53	7.44	6.71 J	5.26 J	4.88	2.85	2.9	4.27	3.18	5.58
Chromium, Trivalent	~	~	~	2.4	4.6	4.4	4.5	7.4	6.3 J	4.8 J	4.9	2.8	2.9	4.3	3.2	5.6
Cobalt	~	~	~	2.77	1.4 J	1.52 J	2.44	1.93	0.92 J	1.06 J	3.24	0.536 J	0.871 J	2.86	0.425 J	1.19 J
Copper	50	270	1720	25	3.65	3.54	20.1	10.7	3.81 J	5.06 J	12	0.477 J	1.08	23.6	0.496 J	1.76
Cyanide	27	27	40	0.95 U	1 U	1.2 U	1.1 UJ	1.1 UJ	1.2 UJ	1.2 UJ	1.1 UJ	1.1 UJ	1.2 UJ	1 U	1.1 U	1.2 U
Iron	~	~	~	6,570	3,740	3,890	5,890	5,100	2,010 J	2,380 J	9,460	1,160	1,930	6,550	889	2,640
Lead	63	400	450	6.25	14.1	16.6	18.9	27.5	22	25.6	22.2	1.66 J	1.6 J	8.75	1.9 J	1.91 J
Magnesium	~	~	~	44,300	672	849	46,400	2,020	503 J	714 J	14,300	208	431	44,000	210	610
Manganese	1600	2000	2000	117	55.2	42.5	120	68.5	22.5 J	31.2 J	64.9	15.6	17	96.4	13.7	33.1
Mercury	0.18	0.81	0.73	0.081 U	0.089 U	0.092 U	0.071 U	0.059 J	0.077 UJ	0.366 J	0.075 U	0.075 U	0.091 U	0.083 U	0.076 U	0.087 U
Nickel	30	310	130	3.98	4.82	5.26	5.23	7.05	3.28	3	6.16	0.82 J	3.34	5.08	1.02 J	3.84
Potassium	~	~	~	374	340	339	353	484	190 J	208 J	535	90.4 J	165 J	353	90.2 J	236
Selenium	3.9	180	4	0.487 J	1.8 U	1.99 U	0.242 J	1.77 U	1.92 U	2 U	1.79 U	1.67 U	0.274 J	0.26 J	1.77 U	1.87 U
Silver	2	180	8.3	0.826 U	0.9 U	0.997 U	0.895 U	0.886 U	0.959 U	0.998 U	0.896 U	0.837 U	0.946 U	0.789 U	0.886 U	0.935 U
Sodium	~	~	~	229	180 U	222	124 J	70.2 J	102 J	109 J	97.7 J	27.1 J	99.7 J	34.4 J	195	
Vanadium	~	~	~	25.4	5.38	5.82	19.8	8.72	5.38	5.65	29.4	3	3.6	35.2	2.86	4.2
Zinc	109	10000	2480	15.6	14.2	18.1	88.7	34	15.5	19.3	32	8.78	7.22	15.2	11.5	11.3
General Chemistry (%)																
Solids, Percent	~	~	~	96.8	87.6	79.8	88.7	87.4	81.6	79.1	84.9	92.5	80.9	95.4	88.8	82.8
Total Solids	~	~	~	96.8	87.6	79.8	88.7	87.4	81.6	79.1	84.9	92.5	80.9	95.4	88.8	82.8

Table C-1
2020 RI Soil Summary Report
Soil Sample Analytical Results

1607 Surf Avenue
Brooklyn, New York
Langan Project No.: 170599501

Location Sample ID Laboratory ID Sample Date Sample Depth (feet bgs)	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Restricted Use Residential SCOs	NYSDEC Part 375 Protection of Groundwater	SB-9 SB-9_0-2_021120 L2006176-13 2/11/2020 0-2	SB-9 SB-9_6-8_021120 L2006176-14 2/11/2020 6-8	SB-9 SB-9_9-11_021120 L2006176-15 2/11/2020 9-11	SB-10 SB-10_0-2_020620 L2005543-25 2/6/2020 0-2	SB-10 SB-10_5-7_020620 L2005543-26 2/6/2020 5-7	SB-10 SB-10_10-12_020620 L2005543-27 2/6/2020 10-12	SB-11 SB-11_0-2_021120 L2006176-07 2/11/2020 0-2	SB-11 SB-11_6-8_021120 L2006176-08 2/11/2020 6-8	SB-11 SB-11_9-11_021120 L2006176-09 2/11/2020 9-11	SB-12 SB-12_0-2_020720 L2005791-07 2/7/2020 0-2	SB-12 SB-12_5-7_020720 L2005791-08 2/7/2020 5-7	SB-12 SB-12_10-12_020720 L2005791-09 2/7/2020 10-12
Volatile Organic Compounds (mg/kg)															
1,2,4,5-Tetramethylbenzene	~	~	~	0.0022 U	0.0021 U	0.0023 U	0.0024 U	0.0021 U	0.0024 U	0.002 U	0.0022 U	0.0023 U	0.0021 UJ	0.0022 U	0.0022 U
1,2-Dichlorobenzene	1.1	100	1.1	0.0022 U	0.0021 U	0.0023 U	0.0024 U	0.0021 U	0.0024 U	0.002 U	0.0022 U	0.0023 U	0.0021 UJ	0.0022 U	0.0022 U
1,3,5-Trimethylbenzene (Mesitylene)	8.4	52	8.4	0.0022 U	0.0021 U	0.0023 U	0.0024 U	0.0021 U	0.0024 U	0.002 U	0.0022 U	0.0023 U	0.0021 UJ	0.0022 U	0.0022 U
1,4-Dichlorobenzene	1.8	13	1.8	0.0022 U	0.0021 U	0.0023 U	0.0024 U	0.0021 U	0.0024 U	0.002 U	0.0022 U	0.0023 U	0.0021 UJ	0.0022 U	0.0022 U
1,4-Diethyl Benzene	~	~	~	0.0022 U	0.0021 U	0.0023 U	0.0024 U	0.0021 U	0.0024 U	0.002 U	0.0022 U	0.0023 U	0.0021 U	0.0022 U	0.0022 U
2-Hexanone	~	~	~	0.011 U	0.011 U	0.011 U	0.012 U	0.011 U	0.012 U	0.0098 U	0.011 U	0.012 U	0.011 U	0.011 U	0.011 U
Acetone	0.05	100	0.05	0.014 J	0.011 U	0.011 U	0.036 U	0.011 U	0.013 U	0.0098 U	0.025 U	0.0079 J	0.011 UJ	0.011 UJ	0.011 UJ
Benzene	0.06	4.8	0.06	0.00055 U	0.00054 U	0.00056 U	0.00061 U	0.00054 U	0.00061 U	0.00049 U	0.00056 U	0.00058 U	0.00053 U	0.00056 U	0.00055 U
Carbon Disulfide	~	~	~	0.011 U	0.011 U	0.011 U	0.012 U	0.011 U	0.012 U	0.0098 U	0.011 U	0.012 U	0.011 UJ	0.011 UJ	0.011 UJ
Chloroform	0.37	49	0.37	0.0002 J	0.0016 U	0.0017 U	0.0018 U	0.0016 U	0.0018 U	0.0015 U	0.0017 U	0.0017 U	0.0002 J	0.0017 U	0.0016 U
Cis-1,2-Dichloroethene	0.25	100	0.25	0.0011 U	0.0011 U	0.0011 U	0.0012 U	0.0011 U	0.0012 U	0.00098 U	0.0011 U	0.0012 U	0.0011 U	0.0011 U	0.0011 U
Cymene	~	~	~	0.0011 U	0.0011 U	0.0011 U	0.0012 U	0.0011 U	0.0012 U	0.00098 U	0.0011 U	0.0012 U	0.0011 UJ	0.0011 U	0.0011 U
Ethylbenzene	1	41	1	0.0011 U	0.0011 U	0.0011 U	0.0012 U	0.0011 U	0.0012 U	0.00098 U	0.0011 U	0.0012 U	0.0011 U	0.0011 U	0.0011 U
M,P-Xylene	~	~	~	0.0022 U	0.0021 U	0.0023 U	0.0024 U	0.0021 U	0.0024 U	0.002 U	0.0022 U	0.0023 U	0.0021 U	0.0022 U	0.0022 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.12	0.011 U	0.011 U	0.011 U	0.0077 J	0.011 U	0.012 U	0.0098 U	0.0037 J	0.012 U	0.011 U	0.011 U	0.011 U
Naphthalene	12	100	12	0.0044 U	0.0011 J	0.0045 U	0.0049 U	0.0043 U	0.0049 U	0.0039 U	0.0045 U	0.0046 U	0.0043 UJ	0.0044 U	0.0044 U
o-Xylene (1,2-Dimethylbenzene)	~	~	~	0.0011 U	0.0011 U	0.0011 U	0.0012 U	0.0011 U	0.0012 U	0.00098 U	0.0011 U	0.0012 U	0.0011 U	0.0011 U	0.0011 U
Tetrachloroethene (PCE)	1.3	19	1.3	0.00055 UJ	0.00054 UJ	0.00056 UJ	0.00061 U	0.00054 U	0.00061 U	0.00049 UJ	0.00056 UJ	0.00058 UJ	0.00053 U	0.00056 U	0.00055 U
Toluene	0.7	100	0.7	0.0011 U	0.0011 U	0.0011 U	0.00066 J	0.0011 U	0.0012 U	0.00098 U	0.0011 U	0.0012 U	0.0011 U	0.0011 U	0.0011 U
Total 1,2-Dichloroethene (Cis and Trans)	~	~	~	0.0011 U	0.0011 U	0.0011 U	0.0012 U	0.0011 U	0.0012 U	0.00098 U	0.0011 U	0.0012 U	0.0011 U	0.0011 U	0.0011 U
Total Xylenes	0.26	100	1.6	0.0011 U	0.0011 U	0.0011 U	0.0012 U	0.0011 U	0.0012 U	0.00098 U	0.0011 U	0.0012 U	0.0011 U	0.0011 U	0.0011 U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.0016 U	0.0016 U	0.0017 U	0.0018 U	0.0016 U	0.0018 U	0.0015 U	0.0017 U	0.0017 U	0.0016 U	0.0017 U	0.0016 U
Trichloroethene (TCE)	0.47	21	0.47	0.00055 U	0.00054 U	0.00056 U	0.00061 U	0.00054 U	0.00061 U	0.00049 U	0.00056 U	0.00058 U	0.00053 U	0.00056 U	0.00055 U
Vinyl Chloride	0.02	0.9	0.02	0.0011 U	0.0011 U	0.0011 U	0.0012 U	0.0011 U	0.0012 U	0.00098 U	0.0011 U	0.0012 U	0.0011 UJ	0.0011 U	0.0011 U
Semivolatile Organic Compounds (mg/kg)															
2-Methylnaphthalene	~	~	~	2.1 U	0.24 U	0.24 U	6.2 U	0.065 J	0.25 U	2.1 U	0.07 J	0.24 U	2.1 U	0.21 U	0.24 U
3 & 4 Methylphenol (m&p Cresol)	0.33	100	0.33	2.5 U	0.28 U	0.29 U	7.4 U	0.25 U	0.3 U	2.6 U	0.28 U	0.28 U	2.6 U	0.25 U	0.29 U
Acenaphthene	20	100	98	1.4 U	0.16 U	0.16 U	4.1 U	0.22 U	0.17 U	1.4 U	0.13 J	0.16 U	1.4 U	0.14 U	0.16 U
Acenaphthylene	100	100	107	1.4 U	0.16 U	0.16 U	4.1 U	0.17 U	0.17 U	1.4 U	0.18 U	0.16 U	1.4 U	0.14 U	0.16 U
Anthracene	100	100	1000	1 U	0.073 J	0.12 U	3.1 U	0.87 U	0.13 U	1.1 U	0.35 U	0.12 U	1.1 U	0.1 U	0.12 U
Benzo(a)Anthracene	1	1	1	1 U	0.33 U	0.025 J	3.1 U	2.1 U	0.13 U	0.58 J	1.3 U	0.12 U	1.2 U	0.1 U	0.12 U
Benzo(a)Pyrene	1	1	22	1.4 U	0.32 U	0.16 U	4.7 U	1.9 U	0.17 U	0.52 J	1.2 U	0.16 U	1.3 U	0.14 U	0.16 U
Benzo(b)Fluoranthene	1	1	1.7	1 U	0.48 U	0.12 U	3.1 U	2.4 U	0.13 U	0.68 J	1.6 U	0.12 U	1.5 U	0.1 U	0.12 U
Benzo(g,h,i)Perylene	100	100	1000	1.4 U	0.2 U	0.16 U	4.1 U	1.3 U	0.17 U	0.39 J	0.71 U	0.16 U	0.85 J	0.14 U	0.16 U
Benzo(k)Fluoranthene	0.8	3.9	1.7	1 U	0.17 U	0.12 U	3.7 U	0.88 U	0.13 U	1.7 U	0.47 U	0.12 U	0.54 J	0.1 U	0.12 U
Benzyl Butyl Phthalate	~	~	~	1.7 U	0.2 U	0.2 U	5.1 U	0.044 J	0.21 U	1.8 U	0.2 U	0.2 U	1.8 U	0.17 U	0.2 U
Biphenyl (Diphenyl)	~	~	~	3.9 U	0.45 U	0.46 U	12 U	0.4 U	0.48 U	4 U	0.45 U	0.45 U	4.1 U	0.39 U	0.46 U
Bis(2-Ethylhexyl) Phthalate	~	~	~	1.7 U	0.2 U	0.2 U	5.1 U	0.18 U	0.21 U	1.8 U	0.2 U	0.2 U	1.8 U	0.17 U	0.2 U
Carbazole	~	~	~	1.7 U	0.041 J	0.2 U	5.1 U	0.32 U	0.21 U	1.8 U	0.18 J	0.2 U	1.8 U	0.17 U	0.2 U
Chrysene	1	3.9	1	1 U	0.34 U	0.021 J	3.1 U	2 U	0.13 U	0.52 J	1.2 U	0.12 U	1.1 U	0.1 U	0.12 U
Dibenz(a,h)Anthracene	0.33	0.33	1000	1 U	0.06 J	0.12 U	3.7 U	0.29 U	0.13 U	1.7 U	0.19 U	0.12 U	1.7 U	0.1 U	0.12 U
Dibenzofuran	7	59	210	1.7 U	0.036 J	0.2 U	5.1 U	0.18 U	0.21 U	1.8 U	0.17 J	0.2 U	1.8 U	0.17 U	0.2 U
Di-N-Butyl Phthalate	~	~	~	1.7 U	0.2 U	0.2 U	5.1 U	0.052 J	0.21 U	1.8 U	0.2 U	0.2 U	1.8 U	0.17 U	0.2 U
Fluoranthene	100	100	1000	1 U	0.75 U	0.051 J	3.1 U	4.2 U	0.13 U	0.88 J	2.7 U	0.12 U	2.3 U	0.1 U	0.12 U
Fluorene	30	100	386	1.7 U	0.04 J	0.2 U	5.1 U	0.23 U	0.21 U	1.8 U	0.29 U	0.2 U	1.8 U	0.17 U	0.2 U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	8.2	1.4 U	0.24 U	0.16 U	4.7 U	1.2 U	0.17 U	0.39 J	0.76 U	0.16 U	0.82 J	0.14 U	0.16 U
Naphthalene	12	100	12	1.7 U	0.034 J	0.2 U	5.1 U	0.13 J	0.21 U	1.8 U	0.29 U	0.2 U	1.8 U	0.17 U	0.2 U
Pentachlorophenol	0.8	6.7	0.8	1.4 U	0.16 U	0.16 U	4.7 U	0.14 U	0.17 U	1.4 U	0.16 U	0.16 U	1.4 U	0.14 UJ	0.16 U
Phenanthrene	100	100	1000	1 U	0.43 U	0.028 J	3.1 U	3.4 U	0.13 U	0.3 J	1.5 U	0.12 U	1.1 U	0.1 U	0.12 U
Phenol	0.33	100	0.33	1.7 U	0.2 U	0.2 U	5.7 U	0.18 U	0.21 U	1.8 U	0.2 U	0.2 U	1.8 U	0.17 U	0.2 U
Pyrene	100	100	1000	1 U	0.53 U	0.038 J	3.1 U	3.7 U	0.13 U	0.79 J	2.5 U	0.12 U	2.2 U	0.1 U	0.12 U

Table C-1
2020 RI Soil Summary Report
Soil Sample Analytical Results

1607 Surf Avenue
Brooklyn, New York
Langan Project No.: 170599501

Location Sample ID Laboratory ID Sample Date Sample Depth (feet bgs)	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Restricted Use Residential SCOs	NYSDEC Part 375 Protection of Groundwater	SB-9 SB-9_0-2_021120 L2006176-13 2/11/2020 0-2	SB-9 SB-9_6-8_021120 L2006176-14 2/11/2020 6-8	SB-9 SB-9_9-11_021120 L2006176-15 2/11/2020 9-11	SB-10 SB-10_0-2_020620 L2005543-25 2/6/2020 0-2	SB-10 SB-10_5-7_020620 L2005543-26 2/6/2020 5-7	SB-10 SB-10_10-12_020620 L2005543-27 2/6/2020 10-12	SB-11 SB-11_0-2_021120 L2006176-07 2/11/2020 0-2	SB-11 SB-11_6-8_021120 L2006176-08 2/11/2020 6-8	SB-11 SB-11_9-11_021120 L2006176-09 2/11/2020 9-11	SB-12 SB-12_0-2_020720 L2005791-07 2/7/2020 0-2	SB-12 SB-12_5-7_020720 L2005791-08 2/7/2020 5-7	SB-12 SB-12_10-12_020720 L2005791-09 2/7/2020 10-12
Pesticides (mg/kg)															
4,4'-DDD	0.0033	13	14	0.0161 U	0.0067	0.00192 U	0.016 U	0.00126 J	0.00196 UJ	0.017 U	0.0127	0.00186 U	0.00849 UJ	0.00156 UJ	0.00193 UJ
4,4'-DDE	0.0033	8.9	17	0.0161 U	0.00794	0.00192 U	0.016 U	0.00598	0.00131 J	0.017 U	0.00609	0.00186 U	0.00849 UJ	0.00156 UJ	0.00193 UJ
4,4'-DDT	0.0033	7.9	136	0.0303 U	0.0118	0.00361 U	0.0301 UJ	0.00579	0.00368 U	0.0318 U	0.00263 J	0.00348 U	0.00785	0.00293 UJ	0.00362 UJ
Alpha Chlordane	0.094	4.2	2.9	0.0202 U	0.00238 U	0.00241 U	0.0201 U	0.00202 U	0.00245 U	0.0212 U	0.00238 U	0.00232 U	0.0106 U	0.00196 U	0.00241 U
Chlordane (alpha and gamma)	~	~	~	0.134 U	0.0159 U	0.016 U	0.134 U	0.0134 U	0.0164 U	0.141 U	0.0159 U	0.0155 U	0.0707 U	0.013 U	0.0161 U
Dieldrin	0.005	0.2	0.1	0.0101 U	0.00119 U	0.0012 U	0.01 U	0.00101 U	0.00123 UJ	0.0106 U	0.00119 U	0.00116 U	0.00351 J	0.000978 UJ	0.00121 UJ
Gamma Chlordane	~	~	~	0.0202 U	0.00238 U	0.00241 U	0.0201 U	0.00152 J	0.00245 U	0.0212 U	0.00238 U	0.00232 U	0.0106 UJ	0.00196 UJ	0.00241 UJ
Heptachlor	0.042	2.1	0.38	0.00807 U	0.000953 U	0.000963 U	0.00802 U	0.000807 U	0.000982 U	0.00849 U	0.000954 U	0.000928 U	0.00424 UJ	0.000782 UJ	0.000966 UJ
Heptachlor Epoxide	~	~	~	0.0303 U	0.00357 U	0.00361 U	0.0301 U	0.00303 U	0.00368 U	0.0318 U	0.00358 U	0.00348 U	0.0159 U	0.00293 U	0.00362 U
Toxaphene	~	~	~	0.303 UJ	0.0357 UJ	0.0361 UJ	0.301 U	0.0303 U	0.0368 U	0.318 UJ	0.0358 UJ	0.0348 U	0.159 U	0.0293 U	0.0362 U
Herbicides (mg/kg)															
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polychlorinated Biphenyls (mg/kg)															
PCB-1242 (Aroclor 1242)	~	~	~	0.0339 U	0.0382 U	0.0406 U	0.033 UJ	0.034 U	0.0408 U	0.0347 U	0.0194 J	0.0383 U	0.0339 U	0.0334 U	0.0397 U
PCB-1254 (Aroclor 1254)	~	~	~	0.0339 U	0.0382 U	0.0406 U	0.033 UJ	0.034 U	0.0408 U	0.0347 U	0.0395 U	0.0383 U	0.0339 U	0.0334 U	0.0397 U
PCB-1260 (Aroclor 1260)	~	~	~	0.0142 J	0.0382 U	0.0406 U	0.033 UJ	0.034 U	0.0408 U	0.0314 J	0.00823 J	0.0383 U	0.032 J	0.0334 U	0.0397 U
PCB-1268 (Aroclor 1268)	~	~	~	0.0339 U	0.0382 U	0.0406 U	0.033 UJ	0.034 U	0.0408 U	0.0347 U	0.0395 U	0.0383 U	0.0128 J	0.0334 U	0.0397 U
Total PCBs	0.1	1	3.2	0.0142 J	0.0382 U	0.0406 U	0.033 UJ	0.034 U	0.0408 U	0.0314 J	0.0276 J	0.0383 U	0.0448 J	0.0334 U	0.0397 U
Inorganics (mg/kg)															
Aluminum	~	~	~	1,910	831	1,200	1,790	1,010	748	1,170	807	1,200	1,420	422	1,200
Antimony	~	~	~	4 U	4.66 U	4.7 U	3.94 U	4.16 U	4.81 U	0.326 J	4.74 U	4.76 U	1.14 J	4.12 U	4.69 U
Arsenic	13	16	16	1.51	0.55 J	0.507 J	1.64	0.458 J	0.26 J	2.11	0.834 J	1.11	2.28	0.601 J	1.24
Barium	350	400	820	16.7	12.8	4.17	8.79	7.41	2.97	16.5	19.2	4.28	36.9	2.2	3.24
Beryllium	7.2	72	47	0.08 J	0.037 J	0.056 J	0.063 J	0.033 J	0.481 U	0.114 J	0.038 J	0.048 J	0.112 J	0.033 J	0.066 J
Cadmium	2.5	4.3	7.5	0.799 U	0.933 U	0.94 U	0.787 U	0.832 U	0.963 U	0.816 U	0.948 U	0.952 U	0.241 J	0.823 U	0.939 U
Calcium	~	~	~	91,000	2,740	321	93,600	5,490	282	93,200	2,240	428	33,000	325	367
Chromium, Hexavalent	1	110	19	0.375 J	0.509 J	0.994 U	0.832 U	0.849 U	1.02 U	0.398 J	0.316 J	0.959 U	0.346 J	0.832 U	0.988 U
Chromium, Total	~	~	~	3.21	4.15	4.39	3.47	3.3	3.2	3.48	4.77	5.03	6.34	2.88	4.19
Chromium, Trivalent	~	~	~	2.8 J	3.6 J	4.4	3.5	3.3	3.1 J	4.4 J	5	6 J	2.9	4.2	
Cobalt	~	~	~	2.86	0.737 J	1.15 J	3.4	1.6 J	0.684 J	2.47	0.73 J	0.771 J	2.08	0.518 J	1.34 J
Copper	50	270	1720	25	3	1.74	22.4	23.6	1.66	16.2	5.9	2.54	16.3	0.346 J	2.36
Cyanide	27	27	40	1 UJ	1.1 UJ	1.2 UJ	1 U	1.2 U	1 UJ	1 UJ	1.2 UJ	1.1 UJ	1.1 UJ	1 UJ	1.1 UJ
Iron	~	~	~	6,660	1,730	2,320	7,170	3,780	1,480	5,650	1,870	2,180	6,680	1,150	2,690
Lead	63	400	450	20.7	10.4	1.28 J	6.11	16.6	1.14 J	25	64.2	7.34	102	1.65 J	1.43 J
Magnesium	~	~	~	45,600	456	610	39,700	1,530	373	43,000	647	574	18,800	192	565
Manganese	1600	2000	2000	140	24.8	18.3	120	67.6	14.7	113	19.7	17.3	101	18.7	21.5
Mercury	0.18	0.81	0.73	0.066 U	0.077 U	0.078 U	0.078 U	0.073 U	0.099 U	0.067 U	0.076 U	0.075 U	0.163	0.073 U	0.097 U
Nickel	30	310	130	4.52	1.6 J	5.24	4.34	3.28	2.72	4.66	2.25 J	3.27	5.94	0.642 J	5.34
Potassium	~	~	~	330	148 J	231 J	286	134 J	149 J	365	143 J	236 J	232	69 J	228 J
Selenium	3.9	180	4	1.6 U	1.87 U	1.88 U	1.57 U	0.516 J	1.92 U	0.286 J	1.9 U	1.9 U	1.72 U	1.65 U	1.88 U
Silver	2	180	8.3	0.799 U	0.933 U	0.94 U	0.787 U	0.832 U	0.963 U	0.816 U	0.948 U	0.952 U	0.86 U	0.823 U	0.939 U
Sodium	~	~	~	209	55.9 J	46.3 J	140 J	32.5 J	25.6 J	102 J	66.7 J	56 J	56.7 J	17.8 J	50.1 J
Vanadium	~	~	~	32.8	4.87	4.95	28.7	4.29	2.89	22.7	4.3	4.37	18.2	2.91	5.21
Zinc	109	10000	2480	27.6	48.7	18.8	23.4	35.4	8.11	30.6	41.8	9.19	69.4	7.14	17.1
General Chemistry (%)															
Solids, Percent	~	~	~	95.9	82.5	80.5	96.1	94.2	78.1	93	82.4	83.4	92.6	96.2	81
Total Solids	~	~	~	95.9	82.5	80.5	96.1	94.2	78.1	93	82.4	83.4	92.6	96.2	81

Table C-1
2020 RI Soil Summary Report
Soil Sample Analytical Results

1607 Surf Avenue
Brooklyn, New York
Langan Project No.: 170599501

Location Sample ID Laboratory ID Sample Date Sample Depth (feet bgs)	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Restricted Use Residential SCOs	NYSDEC Part 375 Protection of Groundwater	SB-13 SB-13_0-2_021020 L2005961-01 2/10/2020 0-2	SB-13 SB-13_4-6_021020 L2005961-02 2/10/2020 4-6	SB-13 SB-13_9-11_021020 L2005961-03 2/10/2020 9-11	SB-14 SB-14_0-2_021120 L2006176-10 2/11/2020 0-2	SB-14 SB-14_6-8_021120 L2006176-11 2/11/2020 6-8	SB-14 SB-14_9-11_021120 L2006176-12 2/11/2020 9-11	SB-15 SB-15_0-2_021020 L2005961-04 2/10/2020 0-2	SB-15 SB-15_6-8_021020 L2005961-05 2/10/2020 6-8	SB-15 SB-15_10-12_021020 L2005961-06 2/10/2020 10-12	SB-15 SODUP02_021020 L2005961-09 2/10/2020 10-12	SB-16 SB-16_0-2_021120 L2006176-04 2/11/2020 0-2	SB-16 SB-16_5-7_021120 L2006176-05 2/11/2020 5-7	SB-16 SB-16_9-11_021120 L2006176-06 2/11/2020 9-11	
Volatile Organic Compounds (mg/kg)																	
1,2,4,5-Tetramethylbenzene	~	~	~	0.002 U	0.0022 U	0.0021 U	0.002 U	0.0022 U	0.0024 U	0.0023 U	0.002 U	0.0021 U	0.002 U	0.0024 U	0.0023 U	0.0024 U	
1,2-Dichlorobenzene	1.1	100	1.1	0.002 U	0.0022 U	0.0021 U	0.002 U	0.0022 U	0.0024 U	0.0023 U	0.002 U	0.0021 U	0.002 U	0.0024 U	0.0023 U	0.0024 U	
1,3,5-Trimethylbenzene (Mesitylene)	8.4	52	8.4	0.002 U	0.0022 U	0.0021 U	0.002 U	0.0022 U	0.0024 U	0.0023 U	0.002 U	0.0021 U	0.002 U	0.0024 U	0.0023 U	0.0024 U	
1,4-Dichlorobenzene	1.8	13	1.8	0.002 U	0.0022 U	0.0021 U	0.002 U	0.0022 U	0.0024 U	0.0023 U	0.002 U	0.0021 U	0.002 U	0.0024 U	0.0023 U	0.0024 U	
1,4-Diethyl Benzene	~	~	~	0.002 U	0.0022 U	0.0021 U	0.002 U	0.0022 U	0.0024 U	0.0023 U	0.002 U	0.0021 U	0.002 U	0.0024 U	0.0023 U	0.0024 U	
2-Hexanone	~	~	~	0.01 UJ	0.011 UJ	0.01 UJ	0.01 U	0.011 U	0.012 UJ	0.012 UJ	0.0099 UJ	0.011 UJ	0.01 U	0.012 U	0.011 U	0.012 U	
Acetone	0.05	100	0.05	0.01 UJ	0.011 UJ	0.01 UJ	0.03 J	0.0072 J	0.0088 J	0.009 J	0.0099 UJ	0.011 UJ	0.01 U	0.008 J	0.062	0.018	
Benzene	0.06	4.8	0.06	0.00051 U	0.00054 U	0.00053 U	0.00051 U	0.00055 U	0.00059 U	0.00058 U	0.00049 U	0.00053 U	0.0005 U	0.00061 U	0.00057 U	0.00059 U	
Carbon Disulfide	~	~	~	0.01 U	0.011 U	0.01 U	0.01 U	0.011 U	0.012 U	0.012 U	0.0099 U	0.011 U	0.01 U	0.012 U	0.011 U	0.012 U	
Chloroform	0.37	49	0.37	0.0015 U	0.0016 U	0.0016 U	0.0015 U	0.0017 U	0.0018 U	0.0017 U	0.0015 U	0.0016 U	0.0015 U	0.0018 U	0.0016 J	0.0016 J	
Cis-1,2-Dichloroethene	0.25	100	0.25	0.001 U	0.0011 U	0.001 U	0.001 U	0.0011 U	0.0012 U	0.0012 U	0.00099 U	0.0011 U	0.001 U	0.0012 U	0.0011 U	0.0012 U	
Cymene	~	~	~	0.001 U	0.0011 U	0.001 U	0.001 U	0.0011 U	0.0012 U	0.0012 U	0.00099 U	0.0011 U	0.001 U	0.0012 U	0.0011 U	0.0012 U	
Ethylbenzene	1	41	1	0.001 U	0.0011 U	0.001 U	0.001 U	0.0011 U	0.0012 U	0.0012 U	0.00099 U	0.0011 U	0.001 U	0.0012 U	0.0011 U	0.0012 U	
M,P-Xylene	~	~	~	0.002 U	0.0022 U	0.0021 U	0.002 U	0.0022 U	0.0024 U	0.0023 U	0.002 U	0.0021 U	0.002 U	0.0024 U	0.0023 U	0.0024 U	
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.12	0.01 UJ	0.011 UJ	0.01 UJ	0.01 U	0.011 U	0.012 U	0.012 UJ	0.0099 UJ	0.011 UJ	0.01 U	0.012 U	0.011 U	0.012 U	
Naphthalene	12	100	12	0.004 U	0.0044 U	0.0042 U	0.0041 U	0.0044 U	0.0047 U	0.0046 U	0.004 U	0.0042 U	0.004 U	0.0049 U	0.0046 U	0.0047 U	
o-Xylene (1,2-Dimethylbenzene)	~	~	~	0.001 U	0.0011 U	0.001 U	0.001 U	0.0011 U	0.0012 U	0.0012 U	0.00099 U	0.0011 U	0.001 U	0.0012 U	0.0011 U	0.0012 U	
Tetrachloroethene (PCE)	1.3	19	1.3	0.00051 U	0.00054 U	0.00053 U	0.00051 UJ	0.00055 UJ	0.00059 UJ	0.00058 U	0.00049 U	0.00053 U	0.0005 U	0.00061 UJ	0.00057 UJ	0.00059 UJ	
Toluene	0.7	100	0.7	0.001 U	0.0011 U	0.001 U	0.001 U	0.0011 U	0.0012 U	0.0012 U	0.00099 U	0.0011 U	0.001 U	0.0012 U	0.0011 U	0.0012 U	
Total 1,2-Dichloroethene (Cis and Trans)	~	~	~	0.001 U	0.0011 U	0.001 U	0.001 U	0.0011 U	0.0012 U	0.0012 U	0.00099 U	0.0011 U	0.001 U	0.0012 U	0.0011 U	0.0012 U	
Total Xylenes	0.26	100	1.6	0.001 U	0.0011 U	0.001 U	0.001 U	0.0011 U	0.0012 U	0.0012 U	0.00099 U	0.0011 U	0.001 U	0.0012 U	0.0011 U	0.0012 U	
Trans-1,2-Dichloroethene	0.19	100	0.19	0.0015 U	0.0016 U	0.0016 U	0.0015 U	0.0017 U	0.0018 U	0.0017 U	0.0015 U	0.0016 U	0.0015 U	0.0018 U	0.0017 U	0.0018 U	
Trichloroethene (TCE)	0.47	21	0.47	0.00051 U	0.00054 U	0.00053 U	0.00051 U	0.00055 U	0.00059 U	0.00058 U	0.00049 U	0.00053 U	0.0005 U	0.00061 U	0.00057 U	0.00059 U	
Vinyl Chloride	0.02	0.9	0.02	0.001 UJ	0.0011 UJ	0.001 UJ	0.001 U	0.0011 U	0.0012 U	0.0012 UJ	0.00099 UJ	0.0011 UJ	0.001 U	0.0012 U	0.0011 U	0.0012 U	
Semivolatile Organic Compounds (mg/kg)																	
2-Methylnaphthalene	~	~	~	2.1 U	0.21 U	0.24 U	2.2 U	0.24 U	0.25 U	0.63 U	0.22 U	0.24 U	0.23 U	2.2 U	0.21 U	0.26 U	
3 & 4 Methylphenol (m&p Cresol)	0.33	100	0.33	2.5 U	0.25 U	0.29 U	2.6 U	0.28 U	0.3 U	0.75 U	0.27 U	0.29 U	0.28 U	2.7 U	0.25 U	0.31 U	
Acenaphthene	20	100	98	1.4 U	0.14 U	0.16 U	1.4 U	0.16 U	0.16 U	0.42 U	0.15 U	0.16 U	0.15 U	1.5 U	0.14 U	0.17 U	
Acenaphthylene	100	100	107	1.4 U	0.14 U	0.16 U	1.4 U	0.16 U	0.16 U	0.42 U	0.15 U	0.16 U	0.15 U	1.5 U	0.14 U	0.17 U	
Anthracene	100	100	1000	1 U	0.1 U	0.12 U	1.1 U	0.12 U	0.12 U	0.31 U	0.11 U	0.12 U	0.12 U	1.1 U	0.1 U	0.13 U	
Benzo(a)Anthracene	1	1	1	0.34 J	0.039 J	0.12 U	1.1 U	0.12 U	0.12 U	0.31 U	0.11 U	0.12 U	0.12 U	1.7	0.1 U	0.13 U	
Benzo(a)Pyrene	1	1	22	1.4 U	0.042 J	0.16 U	1.4 U	0.16 U	0.16 U	0.42 U	0.15 U	0.16 U	0.15 U	1.9	0.14 U	0.17 U	
Benzo(b)Fluoranthene	1	1	1.7	0.48 J	0.051 J	0.12 U	1.1 U	0.12 U	0.12 U	0.31 U	0.11 U	0.12 U	0.12 U	2.3	0.1 U	0.13 U	
Benzo(g,h,i)Perylene	100	100	1000	0.27 J	0.039 J	0.16 U	1.4 U	0.16 U	0.16 U	0.42 U	0.15 U	0.16 U	0.15 U	1.1 J	0.14 U	0.17 U	
Benzo(k)Fluoranthene	0.8	3.9	1.7	7 U	0.1 U	0.12 U	1.1 U	0.12 U	0.12 U	0.31 U	0.11 U	0.12 U	0.12 U	0.73 J	0.1 U	0.13 U	
Benzyl Butyl Phthalate	~	~	~	1.7 U	0.17 U	0.2 U	1.8 U	0.2 U	0.2 U	0.52 U	0.19 U	0.2 U	0.19 U	1.9 U	0.17 U	0.22 U	
Biphenyl (Diphenyl)	~	~	~	4 U	0.4 U	0.46 U	4.2 U	0.45 U	0.47 U	1.2 U	0.43 U	0.46 U	0.44 U	4.2 U	0.39 U	0.49 U	
Bis(2-Ethylhexyl) Phthalate	~	~	~	1.7 U	0.17 U	0.2 U	1.8 U	0.2 U	0.2 U	0.36 J	0.19 U	0.2 U	0.19 U	1.9 U	0.17 U	0.22 U	
Carbazole	~	~	~	1.7 U	0.17 U	0.2 U	1.8 U	0.2 U	0.2 U	0.52 U	0.19 U	0.2 U	0.19 U	1.9 U	0.17 U	0.22 U	
Chrysene	1	3.9	1	0.33 J	0.047 J	0.12 U	0.19 J	0.12 U	0.12 U	0.13 J	0.11 U	0.12 U	0.12 U	1.6	0.1 U	0.13 U	
Dibenz(a,h)Anthracene	0.33	0.33	1000	7 U	0.1 U	0.12 U	1.1 U	0.12 U	0.12 U	0.31 U	0.11 U	0.12 U	0.12 U	0.28 J	0.1 U	0.13 U	
Dibenzofuran	7	59	210	1.7 U	0.17 U	0.2 U	1.8 U	0.2 U	0.2 U	0.52 U	0.19 U	0.2 U	0.19 U	1.9 U	0.17 U	0.22 U	
Di-N-Butyl Phthalate	~	~	~	1.7 U	0.17 U	0.2 U	1.8 U	0.2 U	0.2 U	0.52 U	0.19 U	0.2 U	0.19 U	1.9 U	0.17 U	0.22 U	
Fluoranthene	100	100	1000	0.61 J	0.073 J	0.12 U	1.1 U	0.12 U	0.12 U	0.31 U	0.11 U	0.12 U	0.12 U	3.5 U	0.1 U	0.13 U	
Fluorene	30	100	386	1.7 U	0.17 U	0.2 U	1.8 U	0.2 U	0.2 U	0.52 U	0.19 U	0.2 U	0.19 U	1.9 U	0.17 U	0.22 U	
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	8.2	0.26 J	0.024 J	0.16 U	1.4 U	0.16 U	0.16 U	0.42 U	0.15 U	0.16 U	0.15 U	1.2 J	0.14 U	0.17 U	
Naphthalene	12	100	12	1.7 U	0.17 U	0.2 U	1.8 U	0.2 U	0.2 U	0.52 U	0.19 U	0.2 U	0.19 U	1.9 U	0.17 U	0.22 U	
Pentachlorophenol	0.8	6.7	0.8	1.4 U	0.14 U	0.16 U	1.4 U	0.16 U	0.16 U	0.42 U	0.15 U	0.16 U	0.15 U	1.5 U	0.14 U	0.17 U	
Phenanthrene	100	100	1000	0.29 J	0.043 J	0.12 U	1.1 U	0.12 U	0.12 U	0.31 U	0.11 U	0.12 U	0.12 U	1.8 U	0.1 U	0.13 U	
Phenol	0.33	100	0.33	1.7 U	0.17 U	0.2 U	1.8 U	0.2 U	0.2 U	0.52 U	0.19 U	0.2 U	0.19 U	1.9 U	0.17 U	0.22 U	
Pyrene	100	100	1000	0.57 J	0.074 J	0.12 U	0.21 J	0.12 U	0.12 U	0.072 J	0.11 U	0.12 U	0.12 U	3.2 U	0.1 U	0.13 U	

Table C-1
2020 RI Soil Summary Report
Soil Sample Analytical Results

1607 Surf Avenue
Brooklyn, New York
Langan Project No.: 170599501

Location Sample ID Laboratory ID Sample Date Sample Depth (feet bgs)	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Restricted Use Residential SCOs	NYSDEC Part 375 Protection of Groundwater	SB-13 SB-13_0-2_021020 L2005961-01 2/10/2020 0-2	SB-13 SB-13_4-6_021020 L2005961-02 2/10/2020 4-6	SB-13 SB-13_9-11_021020 L2005961-03 2/10/2020 9-11	SB-14 SB-14_0-2_021120 L2006176-10 2/11/2020 0-2	SB-14 SB-14_6-8_021120 L2006176-11 2/11/2020 6-8	SB-14 SB-14_9-11_021120 L2006176-12 2/11/2020 9-11	SB-15 SB-15_0-2_021020 L2005961-04 2/10/2020 0-2	SB-15 SB-15_6-8_021020 L2005961-05 2/10/2020 6-8	SB-15 SB-15_10-12_021020 L2005961-06 2/10/2020 10-12	SB-15 SODUP02_021020 L2005961-09 2/10/2020 10-12	SB-16 SB-16_0-2_021120 L2006176-04 2/11/2020 0-2	SB-16 SB-16_5-7_021120 L2006176-05 2/11/2020 5-7	SB-16 SB-16_9-11_021120 L2006176-06 2/11/2020 9-11	
Pesticides (mg/kg)																	
4,4'-DDD	0.0033	13	14	0.00167 U	0.00161 U	0.00186 U	0.0174 U	0.00181 U	0.00198 U	0.0161 U	0.00177 U	0.00188 U	0.00179 U	0.00171 U	0.00161 U	0.00204 U	
4,4'-DDE	0.0033	8.9	17	0.00142 J	0.00161 U	0.00186 U	0.0174 U	0.00181 U	0.00198 U	0.0161 U	0.00177 U	0.00188 U	0.00179 U	0.00229 U	0.00161 U	0.00204 U	
4,4'-DDT	0.0033	7.9	136	0.00312 U	0.00302 U	0.00348 U	0.0325 U	0.00339 U	0.00371 U	0.0302 U	0.00331 U	0.00352 U	0.00336 U	0.00625	0.00302 U	0.00383 U	
Alpha Chlordane	0.094	4.2	2.9	0.00208 U	0.00201 U	0.00232 U	0.0217 U	0.00226 U	0.00247 U	0.0201 U	0.00221 U	0.00235 U	0.00224 U	0.0129	0.00201 U	0.00256 U	
Chlordane (alpha and gamma)	~	~	~	0.0139 U	0.0134 U	0.0155 U	0.145 U	0.0151 U	0.0165 U	0.134 U	0.0147 U	0.0157 U	0.0149 U	0.0802	0.0134 U	0.017 U	
Dieldrin	0.005	0.2	0.1	0.00104 U	0.00101 U	0.00116 U	0.0108 U	0.00113 U	0.00124 U	0.01 U	0.0011 U	0.00117 U	0.00112 U	0.00107 U	0.00101 U	0.00128 U	
Gamma Chlordane	~	~	~	0.00208 U	0.00201 U	0.00232 U	0.0217 U	0.00226 U	0.00247 U	0.0201 U	0.00221 U	0.00235 U	0.00224 U	0.00846 J	0.00201 U	0.00256 U	
Heptachlor	0.042	2.1	0.38	0.000834 U	0.000806 U	0.000929 U	0.00868 U	0.000904 U	0.000989 U	0.00804 U	0.000884 U	0.00094 U	0.000896 U	0.000857 U	0.000806 U	0.00102 U	
Heptachlor Epoxide	~	~	~	0.00312 U	0.00302 U	0.00348 U	0.0325 U	0.00339 U	0.00371 U	0.0302 U	0.00331 U	0.00352 U	0.00336 U	0.00321 U	0.00302 U	0.00383 U	
Toxaphene	~	~	~	0.0312 U	0.0302 U	0.0348 U	0.325 UJ	0.0339 UJ	0.0371 UJ	0.302 U	0.0331 U	0.0352 U	0.0336 U	0.0321 UJ	0.0302 UJ	0.0383 U	
Herbicides (mg/kg)																	
Polychlorinated Biphenyls (mg/kg)																	
PCB-1242 (Aroclor 1242)	~	~	~	0.0337 U	0.0339 U	0.0398 U	0.0364 U	0.0386 U	0.0417 U	0.0346 U	0.0372 U	0.0399 U	0.0379 U	0.0357 U	0.0334 U	0.0429 U	
PCB-1254 (Aroclor 1254)	~	~	~	0.0337 U	0.0339 U	0.0398 U	0.0364 U	0.0386 U	0.0417 U	0.0346 U	0.0372 U	0.0399 U	0.0379 U	0.0357 U	0.0334 U	0.0429 U	
PCB-1260 (Aroclor 1260)	~	~	~	0.0176 J	0.0339 U	0.0398 U	0.00978 J	0.0386 U	0.0417 U	0.0346 U	0.0372 U	0.0399 U	0.0379 U	0.0357 U	0.0334 U	0.0429 U	
PCB-1268 (Aroclor 1268)	~	~	~	0.0337 U	0.0339 U	0.0398 U	0.0364 U	0.0386 U	0.0417 U	0.0346 U	0.0372 U	0.0399 U	0.0379 U	0.0357 U	0.0334 U	0.0429 U	
Total PCBs	0.1	1	3.2	0.0176 J	0.0339 U	0.0398 U	0.00978 J	0.0386 U	0.0417 U	0.0346 U	0.0372 U	0.0399 U	0.0379 U	0.0357 U	0.0334 U	0.0429 U	
Inorganics (mg/kg)																	
Aluminum	~	~	~	2,430	588	932	1,090	552	958	910	433	1,700 J	447 J	3,210	406	1,200	
Antimony	~	~	~	0.766 J	4.07 U	4.58 U	4.26 U	4.55 U	4.92 U	1.02 J	4.489 J	4.86 U	4.51 U	4.26 U	4 U	5.04 U	
Arsenic	13	16	16	2.48	1.19	1.12	1.3	0.309 J	0.541 J	1.88	0.908	1.34	0.866 J	1.92	0.799 U	0.937 J	
Barium	350	400	820	58.8	7.69	2.94	14.4	4.17	2.43	6.1	2.37	4.19 J	2.47 J	157	2.08	3.52	
Beryllium	7.2	72	47	0.421 U	0.407 U	0.458 U	0.094 J	0.455 U	0.492 U	0.409 U	0.436 U	0.486 U	0.451 U	0.153 J	0.4 U	0.05 J	
Cadmium	2.5	4.3	7.5	0.497 J	0.098 J	0.917 U	0.852 U	0.909 U	0.984 U	0.147 J	0.873 U	0.116 J	0.902 U	0.852 U	0.799 U	1.01 U	
Calcium	~	~	~	22,300	2,480	1,050	72,300	398	227	95,500	304	479 J	327 J	23,300	304	361	
Chromium, Hexavalent	1	110	19	0.847 U	0.838 U	0.976 U	0.346 J	0.443 J	1.01 U	0.847 U	0.914 U	0.978 U	0.934 U	0.292 J	0.272 J	1.06 UJ	
Chromium, Total	~	~	~	7.2	8.98	4.24	4.26	4.1	3.8	2.73	3.11	5.2 J	3.01 J	6.85	3	4.58	
Chromium, Trivalent	~	~	~	7.2	8.8 J	4.2	3.9 J	3.6 J	3.8	2.5 J	3.1	4.9 J	2.8 J	6.6 J	2.7 J	4.6	
Cobalt	~	~	~	3.17	1.06 J	1.13 J	1.41 J	0.564 J	0.886 J	2.28	0.515 J	1.86 J	0.55 J	3.99	0.392 J	1.05 J	
Copper	50	270	1720	23.4	2.55	1.63	9.68	0.391 J	1.23	10.7	0.471 J	1.8 J	0.505 J	23.8	0.559 J	1.35	
Cyanide	27	27	40	1 UJ	0.96 UJ	1.1 UJ	1.1 UJ	1.2 UJ	1.2 UJ	1 UJ	1.1 UJ	1.2 UJ	1.1 UJ	0.96 UJ	1.3 UJ	1.3 UJ	
Iron	~	~	~	6,810	2,640	2,210	3,440	1,310	1,770	4,970	1,100	3,970 J	1,150 J	7,700	945	2,530	
Lead	63	400	450	124	11.9	2.71 J	25.2	2.14 J	1.08 J	6.77	1.79 J	2.27 J	1.65 J	77.4	1.42 J	1.51 J	
Magnesium	~	~	~	11,300	1,120	861	43,200	251	475	48,900	210	810 J	214 J	10,600	184	588	
Manganese	1600	2000	2000	136	39	18.2	94.1	21	17.2	113	13.4	33 J	14.9 J	115	11.1	26.8	
Mercury	0.18	0.81	0.73	0.138	0.067 U	0.085 U	0.07 U	0.075 U	0.079 U	0.074 U	0.093 U	0.092 U	0.089 U	0.116	0.066 U	0.083 U	
Nickel	30	310	130	8.36	1.54 J	3.91	3.74	1.01 J	4.14	2.98	0.76 J	5.92 J	0.857 J	8.87	0.767 J	4.09	
Potassium	~	~	~	286	101 J	155 J	254	120 J	185 J	225	94.3 J	323 J	91.7 J	461	84.7 J	250 J	
Selenium	3.9	180	4	0.362 J	1.63 U	0.376 J	0.247 J	1.82 U	1.97 U	0.564 J	0.279 J	1.94 U	0.262 J	1.7 U	1.6 U	2.02 U	
Silver	2	180	8.3	0.842 U	0.813 U	0.917 U	0.852 U	0.909 U	0.984 U	0.817 U	0.873 U	0.971 U	0.902 U	0.852 U	0.799 U	1.01 U	
Sodium	~	~	~	168 U	163 U	183 U	92.4 J	28.7 J	41.4 J	163 U	175 U	194 U	180 U	222	21.6 J	117 J	
Vanadium	~	~	~	18	7.77	5.2	14.5	3.92	3.62	28.6	2.85	6.56 J	2.9 J	23.9	2.63	3.95	
Zinc	109	10000	2480	120	16.6	10.1	26.2	13.5	6.23	13.2	13.2	16.1	13.3	72.3	13.9	10	
General Chemistry (%)																	
Solids, Percent	~	~	~	94.4	95.4	82	89.6	83.5	79.2	94.4	87.5	81.8	85.6	89	95.6	75.8	
Total Solids	~	~	~	94.4	95.4	82	89.6	83.5	79.2	94.4	87.5	81.8	85.6	89	95.6	75.8	

Table C-1
2020 RI Soil Summary Report
Soil Sample Analytical Results

1607 Surf Avenue
Brooklyn, New York
Langan Project No.: 170599501

Location Sample ID Laboratory ID Sample Date Sample Depth (feet bgs)	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Restricted Use Residential SCOs	NYSDEC Part 375 Protection of Groundwater	SB-17 SB-17_0-2_020520 L2005543-10 2/5/2020 0-2	SB-17 SB-17_5-7_020520 L2005543-11 2/5/2020 5-7	SB-17 SB-17_9-11_020520 L2005543-12 2/5/2020 9-11	SB-18 SB-18_0-2_020520 L2005543-07 2/5/2020 0-2	SB-18 SB-18_2-4_020520 L2005543-08 2/5/2020 2-4	SB-18 SB-18_10-12_020520 L2005543-09 2/5/2020 10-12	SB-19 SB-19_0-2_020520 L2005543-04 2/5/2020 0-2	SB-19 SB-19_2-4_020520 L2005543-05 2/5/2020 2-4	SB-19 SB-19_6-8_020520 L2005543-06 2/5/2020 6-8	SB-20 SB-20_0-2_020520 L2005543-01 2/5/2020 0-2	SB-20 SB-20_2-4_020520 L2005543-02 2/5/2020 2-4	SB-20 SB-20_6-8_020520 L2005543-03 2/5/2020 6-8
Volatile Organic Compounds (mg/kg)															
1,2,4,5-Tetramethylbenzene	~	~	~	0.0003 J	0.0022 U	0.0023 U	0.0026 UJ	0.0023 U	0.0026 U	0.0035 U	0.0028 U	0.0024 U	0.002 U	0.0032 U	0.0026 U
1,2-Dichlorobenzene	1.1	100	1.1	0.0023 U	0.0022 U	0.0023 U	0.0026 UJ	0.0023 U	0.0026 U	0.0035 U	0.0028 U	0.0024 U	0.002 U	0.0032 U	0.0026 U
1,3,5-Trimethylbenzene (Mesitylene)	8.4	52	8.4	0.0012 J	0.0022 UJ	0.0023 UJ	0.0026 UJ	0.0023 UJ	0.0026 UJ	0.0035 UJ	0.0028 UJ	0.0024 UJ	0.002 UJ	0.0032 UJ	0.0026 UJ
1,4-Dichlorobenzene	1.8	13	1.8	0.0023 U	0.0022 U	0.0023 U	0.0026 UJ	0.0023 U	0.0026 U	0.0035 U	0.0028 U	0.0024 U	0.002 U	0.0032 U	0.0026 U
1,4-Diethyl Benzene	~	~	~	0.001 J	0.0022 U	0.0023 U	0.0026 U	0.0023 U	0.0026 U	0.0035 U	0.0028 U	0.0024 U	0.002 U	0.0032 U	0.0026 U
2-Hexanone	~	~	~	0.011 U	0.011 U	0.012 U	0.013 U	0.012 U	0.013 U	0.018 U	0.014 U	0.012 U	0.01 U	0.016 U	0.013 U
Acetone	0.05	100	0.05	0.009 J	0.011 U	0.012 U	0.0064 J	0.012 U	0.013 U	0.021 U	0.0072 J	0.012 U	0.01 U	0.016 U	0.013 U
Benzene	0.06	4.8	0.06	0.00023 J	0.00056 U	0.00058 U	0.00064 U	0.00058 U	0.00064 U	0.00088 U	0.0007 U	0.0006 U	0.00054 U	0.00081 U	0.00064 U
Carbon Disulfide	~	~	~	0.011 UJ	0.011 UJ	0.012 UJ	0.013 UJ	0.012 UJ	0.013 UJ	0.018 UJ	0.014 UJ	0.012 UJ	0.01 UJ	0.016 UJ	0.013 UJ
Chloroform	0.37	49	0.37	0.0017 U	0.00016 J	0.0018 U	0.0019 U	0.0018 U	0.0019 U	0.0026 U	0.0021 U	0.0018 U	0.0015 U	0.0024 U	0.0019 U
Cis-1,2-Dichloroethene	0.25	100	0.25	0.0011 U	0.0011 U	0.0012 U	0.0013 U	0.0012 U	0.0013 U	0.0018 U	0.0014 U	0.0012 U	0.001 U	0.0016 U	0.0013 U
Cymene	~	~	~	0.00021 J	0.0011 U	0.0012 U	0.0013 UJ	0.0012 U	0.0013 U	0.0018 U	0.0014 U	0.0012 U	0.001 U	0.0016 U	0.0013 U
Ethylbenzene	1	41	1	0.00018 J	0.0011 UJ	0.0012 UJ	0.0013 UJ	0.0012 UJ	0.0013 UJ	0.0018 UJ	0.0014 UJ	0.0012 UJ	0.00075 J	0.0016 UJ	0.0013 UJ
M,P-Xylene	~	~	~	0.0023 U	0.0022 U	0.0023 U	0.0026 U	0.0023 U	0.0026 U	0.0035 U	0.0028 U	0.0024 U	0.00036 U	0.0032 U	0.0026 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.12	0.011 U	0.011 U	0.012 U	0.013 U	0.012 U	0.013 U	0.018 U	0.014 U	0.012 U	0.01 U	0.016 U	0.013 U
Naphthalene	12	100	12	0.0046 U	0.026 U	0.0047 U	0.0051 UJ	0.00091 J	0.0052 U	0.007 U	0.0027 J	0.0048 U	0.004 U	0.0016 J	0.0051 U
o-Xylene (1,2-Dimethylbenzene)	~	~	~	0.0011 U	0.0011 U	0.0012 U	0.0013 U	0.0012 U	0.0013 U	0.0018 U	0.0014 U	0.0012 U	0.0015 U	0.0016 U	0.0013 U
Tetrachloroethene (PCE)	1.3	19	1.3	0.0018 U	0.00054 J	0.00058 U	0.00064 U	0.00058 U	0.00064 U	0.00088 U	0.0007 U	0.0006 U	0.0005 U	0.00081 U	0.00064 U
Toluene	0.7	100	0.7	0.0011 UJ	0.0011 UJ	0.0012 UJ	0.0013 UJ	0.0012 UJ	0.0013 UJ	0.0018 UJ	0.0014 UJ	0.0012 UJ	0.001 UJ	0.002 J	0.0013 UJ
Total 1,2-Dichloroethene (Cis and Trans)	~	~	~	0.0011 U	0.0011 U	0.0012 U	0.0013 U	0.0012 U	0.0013 U	0.00071 J	0.00045 J	0.0012 U	0.001 U	0.0016 U	0.0004 J
Total Xylenes	0.26	100	1.6	0.0011 U	0.0011 U	0.0012 U	0.0013 U	0.0012 U	0.0013 U	0.0018 U	0.0014 U	0.0012 U	0.00051 U	0.0016 U	0.0013 U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.0017 U	0.0017 U	0.0018 U	0.0019 U	0.0018 U	0.0019 U	0.00071 J	0.00045 J	0.0018 U	0.0015 U	0.0024 U	0.0004 J
Trichloroethene (TCE)	0.47	21	0.47	0.00057 U	0.00056 U	0.00058 U	0.00064 U	0.00058 U	0.00064 U	0.00088 U	0.0007 U	0.0006 U	0.0005 U	0.00081 U	0.00064 U
Vinyl Chloride	0.02	0.9	0.02	0.0011 UJ	0.0011 UJ	0.0012 UJ	0.0013 UJ	0.0012 UJ	0.0013 UJ	0.0018 UJ	0.0014 UJ	0.0012 UJ	0.001 UJ	0.0016 UJ	0.0013 UJ
Semivolatile Organic Compounds (mg/kg)															
2-Methylnaphthalene	~	~	~	3.3 U	0.49 J	0.24 U	2.1 U	0.23 J	0.026 J	2 U	0.27 J	0.22 U	1.1 U	0.026 J	0.24 U
3 & 4 Methylphenol (m&p Cresol)	0.33	100	0.33	3.9 U	2.5 U	0.29 U	2.5 U	1 U	0.28 U	2.4 U	2.5 U	0.27 U	1.3 U	0.26 U	0.28 U
Acenaphthene	20	100	98	2.2 U	2.6 U	0.16 U	1.4 U	0.6 U	0.1 J	1.3 U	1.9 U	0.15 U	0.18 J	0.063 J	0.16 U
Acenaphthylene	100	100	107	2.2 U	0.5 J	0.16 U	1.4 U	0.93 J	0.093 J	1.3 U	1.8 U	0.15 U	0.48 J	0.095 J	0.16 U
Anthracene	100	100	1000	1.6 U	7.2 U	0.12 U	1 U	1.7 U	0.35 U	1 U	4.7 U	0.11 U	0.56 U	0.2 U	0.12 U
Benzo(a)Anthracene	1	1	1	0.31 J	22	0.12 U	0.97 J	6.7	1.2	0.32 J	18	0.11 U	2.1	0.65 U	0.12 U
Benzo(a)Pyrene	1	1	22	2.2 U	20	0.16 U	1 J	6.7	1 U	1.3 U	17	0.15 U	2.1	0.59 U	0.16 U
Benzo(b)Fluoranthene	1	1	1.7	1.6 U	28	0.12 U	1.4	9.3	1.2	0.38 J	22	0.11 U	2.5	0.78 U	0.12 U
Benzo(g,h,i)Perylene	100	100	1000	2.2 U	13 U	0.16 U	0.72 J	4.5 U	0.54 U	0.22 J	10 U	0.15 U	1.2 U	0.38 U	0.16 U
Benzo(k)Fluoranthene	0.8	3.9	1.7	1.6 U	10	0.12 U	0.44 J	2.7	0.4 U	1 U	7.6	0.11 U	1.1	0.29 U	0.12 U
Benzyl Butyl Phthalate	~	~	~	2.7 U	1.8 U	0.2 U	1.8 U	0.71 U	0.2 U	1.7 U	1.8 U	0.19 U	7.1 U	0.18 U	0.2 U
Biphenyl (Diphenyl)	~	~	~	6.2 U	4 U	0.45 U	4 U	1.6 U	0.45 U	3.8 U	4 U	0.42 U	2 U	0.41 U	0.45 U
Bis(2-Ethylhexyl) Phthalate	~	~	~	2.7 U	1.8 U	0.2 U	1.8 U	0.71 U	0.2 U	1.7 U	1.8 U	0.19 U	74 U	0.17 J	0.2 U
Carbazole	~	~	~	2.7 U	4.7 U	0.2 U	1.8 U	0.99 U	0.12 J	1.7 U	1.6 J	0.19 U	0.3 J	0.098 J	0.2 U
Chrysene	1	3.9	1	0.33 J	21	0.12 U	0.91 J	6.9	1.2	0.4 J	15	0.11 U	2.2	0.63 U	0.12 U
Dibenz(a,h)Anthracene	0.33	0.33	1000	1.6 U	3.5	0.12 U	1 U	1.1	0.13 U	1 U	2.2	0.11 U	0.33 J	0.087 J	0.12 U
Dibenzofuran	7	59	210	2.7 U	1.8 U	0.2 U	1.8 U	0.49 J	0.072 J	1.7 U	0.74 J	0.19 U	0.11 J	0.042 J	0.2 U
Di-N-Butyl Phthalate	~	~	~	2.7 U	1.8 U	0.2 U	1.8 U	0.71 U	0.2 U	1.7 U	1.8 U	0.19 U	0.89 U	0.18 U	0.2 U
Fluoranthene	100	100	1000	0.59 J	41 U	0.12 U	1.4 U	14 U	2.1 U	0.6 J	34 U	0.11 U	4.4 U	1.3 U	0.12 U
Fluorene	30	100	386	2.7 U	2.9 U	0.2 U	1.8 U	0.6 J	0.13 J	1.7 U	1.6 J	0.19 U	0.2 J	0.07 J	0.2 U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	8.2	2.2 U	14	0.16 U	0.68	4.8	0.57	1.3 U	11	0.15 U	1.3	0.39 U	0.16 U
Naphthalene	12	100	12	2.7 U	1.1 J	0.2 U	1.8 U	0.65 J	0.052 J	1.7 U	0.72 J	0.19 U	0.11 J	0.047 J	0.2 U
Pentachlorophenol	0.8	6.7	0.8	2.2 U	1.4 U	0.16 U	1.4 U	0.57 U	0.16 U	1.3 U	1.4 U	0.15 U	0.71 U	0.14 U	0.16 U
Phenanthrene	100	100	1000	0.38 J	30 U	0.12 U	0.44 J	9 U	1.3 U	0.3 J	17 U	0.11 U	2.8 U	0.87 U	0.12 U
Phenol	0.33	100	0.33	2.7 U	1.8 U	0.2 U	1.8 U	0.71 U	0.2 U	1.7 U	1.8 U	0.19 U	0.89 U	0.18 U	0.2 U
Pyrene	100	100	1000	0.61 J	35 U	0.12 U	1.3 U	12 U	2.4 U	0.53 J	28 U	0.11 U	4 U	1.2 U	0.12 U

Table C-1
2020 RI Soil Summary Report
Soil Sample Analytical Results

1607 Surf Avenue
Brooklyn, New York
Langan Project No.: 170599501

Location Sample ID Laboratory ID Sample Date Sample Depth (feet bgs)	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Restricted Use Residential SCOs	NYSDEC Part 375 Protection of Groundwater	SB-17 SB-17_0-2_020520 L2005543-10 2/5/2020 0-2	SB-17 SB-17_5-7_020520 L2005543-11 2/5/2020 5-7	SB-17 SB-17_9-11_020520 L2005543-12 2/5/2020 9-11	SB-18 SB-18_0-2_020520 L2005543-07 2/5/2020 0-2	SB-18 SB-18_2-4_020520 L2005543-08 2/5/2020 2-4	SB-18 SB-18_10-12_020520 L2005543-09 2/5/2020 10-12	SB-19 SB-19_0-2_020520 L2005543-04 2/5/2020 0-2	SB-19 SB-19_2-4_020520 L2005543-05 2/5/2020 2-4	SB-19 SB-19_6-8_020520 L2005543-06 2/5/2020 6-8	SB-20 SB-20_0-2_020520 L2005543-01 2/5/2020 0-2	SB-20 SB-20_2-4_020520 L2005543-02 2/5/2020 2-4	SB-20 SB-20_6-8_020520 L2005543-03 2/5/2020 6-8
Pesticides (mg/kg)															
4,4'-DDD	0.0033	13	14	0.00166 U	0.00166 U	0.00187 U	0.016 U	0.0035 J	0.00183 U	0.0155 U	0.00847 U	0.0018 U	0.00195	0.00945	0.00184 U
4,4'-DDE	0.0033	8.9	17	0.00227 J	0.00166 U	0.00187 U	0.016 U	0.0127 J	0.00183 U	0.0155 U	0.0183	0.0018 U	0.00266 J	0.0252	0.00184 U
4,4'-DDT	0.0033	7.9	136	0.00312 U	0.00312 U	0.00351 U	0.03 U	0.0152 J	0.00343 U	0.0291 U	0.0382	0.00337 U	0.0159	0.0294	0.00345 U
Alpha Chlordane	0.094	4.2	2.9	0.0106 J	0.00208 U	0.00234 U	0.02 U	0.00211 U	0.00228 U	0.0194 U	0.0106 U	0.00224 U	0.00462 J	0.0129 J	0.0023 U
Chlordane (alpha and gamma)	~	~	~	0.158	0.0139 U	0.0156 U	0.133 U	0.0141 U	0.0152 U	0.129 U	0.0706 U	0.015 U	0.0482	0.104	0.0153 U
Dieldrin	0.005	0.2	0.1	0.00104 U	0.00104 U	0.00117 U	0.00999 U	0.00105 U	0.00114 U	0.0097 U	0.00529 U	0.00112 U	0.00198 J	0.00106 U	0.00115 U
Gamma Chlordane	~	~	~	0.0165 J	0.00208 U	0.00234 U	0.02 U	0.00211 U	0.00228 U	0.0194 U	0.00331 J	0.00224 U	0.00432 J	0.0118 J	0.0023 U
Heptachlor	0.042	2.1	0.38	0.000832 U	0.000833 U	0.000936 U	0.00799 U	0.000844 U	0.000914 U	0.00776 U	0.00423 U	0.000898 U	0.000844 U	0.000555 J	0.000919 U
Heptachlor Epoxide	~	~	~	0.00312 U	0.00312 U	0.00351 U	0.03 U	0.00316 U	0.00343 U	0.0291 U	0.0159 U	0.00337 U	0.00128 J	0.00319 U	0.00345 U
Toxaphene	~	~	~	0.0312 U	0.0312 U	0.0351 U	0.3 U	0.0316 U	0.0343 U	0.291 U	0.159 U	0.0337 U	0.0316 U	0.0319 U	0.0345 U
Herbicides (mg/kg)															
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polychlorinated Biphenyls (mg/kg)															
PCB-1242 (Aroclor 1242)	~	~	~	0.0354 U	0.0342 U	0.0394 U	0.0344 U	0.0361 U	0.0395 U	0.032 U	0.0344 U	0.0359 U	0.0354 U	0.0352 U	0.0392 U
PCB-1254 (Aroclor 1254)	~	~	~	0.0352 J	0.0342 U	0.0394 U	0.0344 U	0.00901 J	0.0395 U	0.032 U	0.0166 J	0.0359 U	0.0416	0.0352 U	0.0392 U
PCB-1260 (Aroclor 1260)	~	~	~	0.0354 U	0.0129 J	0.0394 U	0.011 J	0.0361 U	0.0395 U	0.032 U	0.0175 J	0.0359 U	0.0448	0.0352 U	0.0392 U
PCB-1268 (Aroclor 1268)	~	~	~	0.0354 U	0.0342 U	0.0394 U	0.0344 U	0.0361 U	0.0395 U	0.032 U	0.0344 U	0.0359 U	0.0354 U	0.0352 U	0.0392 U
Total PCBs	0.1	1	3.2	0.0352 J	0.0129 J	0.0394 U	0.011 J	0.00901 J	0.0395 U	0.032 U	0.0341 J	0.0359 U	0.0864	0.0352 U	0.0392 U
Inorganics (mg/kg)															
Aluminum	~	~	~	3,730	2,360	410	2,180	3,630	654	901	7,780	378	4,970	2,950	493
Antimony	~	~	~	0.569 J	0.64 J	4.68 U	0.758 J	1.17 J	4.82 U	0.654 J	1.71 J	4.4 U	1.8 J	1.29 J	4.65 U
Arsenic	13	16	16	4.1	2.22	0.936 U	2.29	4.29	0.801 J	2.42	5.01	0.326 J	5.43 J	2.56	0.53 J
Barium	350	400	820	29	71.8	2.16	18.4	203	10.2	13.1	304	3.32	198 J	113	5.8
Beryllium	7.2	72	47	0.175 J	0.168 J	0.468 U	0.112 J	0.222 J	0.039 J	0.1 J	0.306 J	0.44 U	0.279 J	0.144 J	0.465 U
Cadmium	2.5	4.3	7.5	0.166 J	0.345 J	0.936 U	0.192 J	0.393 J	0.106 J	0.108 J	0.719 J	0.88 U	0.671 J	1.03	0.158 J
Calcium	~	~	~	44,700	17,600	239	66,300	24,500	992	103,000	51,000	248	38,700	22,100	514
Chromium, Hexavalent	1	110	19	0.881 U	0.864 U	0.983 U	0.848 U	0.882 U	0.966 U	0.815 U	0.234 J	0.917 U	0.879 U	0.887 U	0.957 U
Chromium, Total	~	~	~	12.9	14.1	2.12 U	4.56	10.6	3.3 U	3.61 U	17.3	3.45 U	14.3	7.53	4.47
Chromium, Trivalent	~	~	~	13	14	2.1	4.6	11	3.3	3.6	17	3.4	14	7.5	4.5
Cobalt	~	~	~	3.09	2.03	0.384 J	3.69	2.54	0.694 J	1.95	2.53	0.405 J	5.17	2.47	0.577 J
Copper	50	270	1720	16.5	22	0.477 J	43	55.7	14.3	18.1	51.5	0.598 J	37	40.8	17
Cyanide	27	27	40	1 U	1 U	1.1 U	0.39 J	0.44 J	1.2 U	0.99 UJ	0.38 J	1 U	1 U	1 U	1.1 U
Iron	~	~	~	8,240	6,350	818	8,620	8,830	1,680	4,920	12,300	960	15,100 J	10,900	1,450
Lead	63	400	450	23.5	149	1 J	29.4	443	47.5	20.8	209	1.3 J	325	366	136
Magnesium	~	~	~	15,200	3,960	187	31,700	1,810	377	51,700	12,000	180	14,300	1,460	178
Manganese	1600	2000	2000	127	101	8.66	106	98.6	14.7	146	10.3	195 J	126	18.2	
Mercury	0.18	0.81	0.73	0.086 U	0.127	0.086 U	0.075 U	0.364	0.106	0.066 U	0.112	0.078 U	0.54	0.443	0.095 U
Nickel	30	310	130	8.59	6.44	2.34 U	4.8	8.11	2.41 U	4.5	15.4	2.2 U	14.8	8.81	2.33 U
Potassium	~	~	~	657	288	89.8 J	397	592	116 J	257	521	80 J	895	496	94.7 J
Selenium	3.9	180	4	1.75 U	1.68 U	1.87 U	0.311 J	0.478 J	1.93 U	0.639 J	0.471 J	1.76 U	0.314 J	0.391 J	1.86 U
Silver	2	180	8.3	0.875 U	0.842 U	0.936 U	0.798 U	0.854 U	0.965 U	0.77 U	0.355 J	0.88 U	0.871 U	1.63	0.419 J
Sodium	~	~	~	259	186	187 U	160 U	177	193 U	154 U	657	176 U	247	170 U	186 U
Vanadium	~	~	~	15.3	11.6	2.09	28.2	11	3.73	21.6	20.3	2.19	19.4	8.04	4.96
Zinc	109	10000	2480	33.6	113	19.9	37.9	213	54.4	20.9	932	9.7	251	497	33.2
General Chemistry (%)															
Solids, Percent	~	~	~	90.8	92.6	81.4	94.3	90.7	82.8	98.2	93.8	87.2	91	90.2	83.6
Total Solids	~	~	~	90.8	92.6	81.4	94.3	90.7	82.8	98.2	93.8	87.2	91	90.2	83.6

Table C-1
2020 RI Soil Summary Report
Soil Sample Analytical Results

1607 Surf Avenue
Brooklyn, New York
Langan Project No.: 170599501

Notes:

1. Soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (NYCRR) Part 375.
2. Criterion comparisons for 3- & 4-methylphenol (m&p cresol) are provided for reference. Promulgated SCOs are for 3-methylphenol (m-cresol) and 4-methylphenol (p-cresol).
3. Besides vinyl chloride, only detected analytes are shown in the table.
4. Detected analytical results above Unrestricted Use SCOs are bolded.
5. Detected analytical results above Restricted Use Residential SCOs are shaded.
6. Detected analytical results above Protection of Groundwater are underlined.
7. Analytical results with reporting limits (RL) above the lowest applicable criteria are italicized.
8. Sample SODUP01_020620, SODUP02_021020, and SODUP03_021120 are duplicate samples of SB-1_6-8_020620, SB-15_10-12_021020, and SB-6_9-11_021120, respectively.
9. ~ = Regulatory limit for this analyte does not exist
10. bgs = below grade surface
11. % = percent
12. ND = Not detected

Qualifiers:

- J – The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ – The analyte was not detected at a level greater than or equal to the reporting limit (RL); however, the reported RL is approximate and may be inaccurate or imprecise.
- U – The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.

Table C-2
2020 RI Groundwater Summary Report
Groundwater Sample Analytical Results

1607 Surf Avenue
Brooklyn, New York
Langan Project No.: 170599501

Location Sample ID Laboratory ID Sample Date	NYSDEC SGVs	MW-1 MW-1_021820 L2007256-01 2/18/2020	MW-2 MW-2_021420 L2006934-01 2/14/2020	MW-3 MW-3_021820 L2007256-02 2/18/2020	MW-4 MW-4_021420 L2006934-02 2/14/2020	MW-5 MW-5_021820 L2007256-03 2/18/2020	MW-6 MW-6_021420 L2006934-03 2/14/2020	MW-7 MW-7_021820 L2007256-04 2/18/2020	MW-8 MW-8_021920 L2007457-01 2/19/2020	MW-8 GWDUP01_021920 L2007457-05 2/19/2020	MW-9 MW-9_021420 L2006934-04 2/14/2020	MW-10 MW-10_021920 L2007457-04 2/19/2020	MW-11 MW-11_021920 L2007457-03 2/19/2020	MW-12 MW-12_021920 L2007457-02 2/19/2020	
Volatile Organic Compounds (µg/L)															
1,2-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethene	5	2.6 U	2.5 U	2.5 U	2.5 U	0.82 J	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cymene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1.1 J	2.5 U
Naphthalene	10	2.5 U	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ
Tert-Butyl Methyl Ether	10	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.3 J	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethene (PCE)	5	10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Total 1,2-Dichloroethene (Cis and Trans)	~	2.6	2.5 U	2.5 U	2.5 U	2.5 U	0.82 J	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trichloroethene (TCE)	5	1.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	2	0.21 J	1 UJ	1 U	1 UJ	1 U	1 UJ	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U
Semivolatile Organic Compounds (µg/L)															
1,2,4,5-Tetrachlorobenzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ
1,2,4-Trichlorobenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	3	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
1,3-Dichlorobenzene	3	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
1,4-Dichlorobenzene	3	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
1,4-Dioxane (P-Dioxane)	~	0.144 U	0.15 U	0.144 U	0.156 U	0.15 U	0.163 U	0.144 U	0.156 U	0.144 U	0.156 U	0.144 U	0.144 U	0.144 U	0.15 U
2,3,4,6-Tetrachlorophenol	~	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	~	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4,6-Trichlorophenol	~	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dichlorophenol	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dimethylphenol	1	5 U	5 UJ	5 U	5 UJ	5 U	5 UJ	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
2,4-Dinitrophenol	1	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
2,4-Dinitrotoluene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,6-Dinitrotoluene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Chloronaphthalene	10	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Chlorophenol	~	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene	~	0.1 U	0.02 J	0.1 U	0.11 U	0.1 U	0.04 J	0.03 J	0.1 U	0.1 U	0.03 J	0.1 U	0.04 J	0.1 U	0.1 U
Acenaphthene	20	0.1 U	0.02 J	0.04 J	0.15 J	0.1 U	0.1 U	0.02 J	0.1 U	0.1 U	0.1 U	0.1 U	0.19 U	0.1 U	0.1 U
Acenaphthylene	~	0.1 U	0.1 U	0.1 U	0.02 J	0.1 U	0.04 J	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Anthracene	50	0.1 U	0.03 J	0.06 J	0.09 J	0.05 J	0.04 J	0.05 J	0.02 J	0.02 J	0.03 J	0.02 J	0.11 J	0.1 U	0.1 U
Benzo(a)Anthracene	0.002	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.06 J	0.03 J	0.1 U	0.1 U	0.1 U	0.02 J	0.07 J	0.1 U	0.1 U
Benzo(a)Pyrene	0	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 J	0.02 J	0.1 U	0.1 U	0.1 U	0.1 U	0.03 J	0.1 U	0.1 U
Benzo(b)Fluoranthene	0.002	0.1 U	0.1 U	0.02 J	0.02 J	0.1 U	0.07 J	0.02 J	0.1 U	0.1 U	0.1 U	0.1 U	0.05 J	0.1 U	0.1 U
Benzo(g,h,i)Perylene	~	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.03 J	0.01 J	0.1 U	0.1 U	0.1 U	0.1 U	0.03 J	0.1 U	0.1 U
Benzo(k)Fluoranthene	0.002	0.1 U	0.1 U	0.01 J	0.1 U	0.1 U	0.02 J	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.02 J	0.1 U	0.1 U
Benzoic Acid	~	50 UJ	50 U	50 UJ	50 U	50 UJ	50 U	50 UJ	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Bis(2-Ethylhexyl) Phthalate	5	1.8 J	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Caprolactam	~	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	0.002	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.04 J	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.06 J	0.1 U	0.1 U
Dibenz(a,h)Anthracene	~	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.01 J	0.1 U	0.1 U
Fluoranthene	50	0.1 U	0.03 J	0.03 J	0.08 J	0.1 U	0.12 J	0.06 J	0.1 U	0.1 U	0.1 U	0.11 U	0.3 J	0.1 U	0.1 U
Fluorene	50	0.1 U	0.1 U	0.1 U	0.11 U	0.1 U	0.04 J	0.04 J	0.1 U	0.1 U	0.1 U	0.1 U	0.14 U	0.1 U	0.1 U
Indeno(1,2,3-c,d)Pyrene	0.002	0.1 U	0.1 U	0.02 J	0.1 U	0.1 U	0.03 J	0.02 J	0.1 U	0.1 U	0.1 U	0.1 U	0.03 J	0.1 U	0.1 U
Naphthalene	10	0.1 U	0.1 U	0.1 U	0.62 J	0.1 U	0.1 U	0.09 J	0.1 U	0.1 U	0.1 U	0.1 U	0.06 J	0.1 U	0.1 U
Phenanthrene	50	0.1 U	0.05 J	0.05 J	0.29 J	0.1 U	0.12 J	0.12 J	0.1 UJ	0.02 J	0.03 J	0.04 J	0.38 J	0.1 U	0.1 U
Pyrene	50	0.1 U	0.03 J	0.05 J	0.06 J	0.1 U	0.11 J	0.05 J	0.1 U	0.1 U	0.03 J	0.11 J	0.25 J	0.1 U	0.1 U

Table C-2
2020 RI Groundwater Summary Report
Groundwater Sample Analytical Results

1607 Surf Avenue
 Brooklyn, New York
 Langan Project No.: 170599501

Location		MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-8	MW-9	MW-10	MW-11	MW-12
Sample ID	NYSDEC	MW-1_021820	MW-2_021420	MW-3_021820	MW-4_021420	MW-5_021820	MW-6_021420	MW-7_021820	MW-8_021920	GWDUP01_021920	MW-9_021420	MW-10_021920	MW-11_021920	MW-12_021920
Laboratory ID	SGVs	L2007256-01	L2006934-01	L2007256-02	L2006934-02	L2007256-03	L2006934-03	L2007256-04	L2007457-01	L2007457-05	L2006934-04	L2007457-04	L2007457-03	L2007457-02
Sample Date		2/18/2020	2/14/2020	2/18/2020	2/14/2020	2/18/2020	2/14/2020	2/18/2020	2/19/2020	2/19/2020	2/14/2020	2/19/2020	2/19/2020	2/19/2020
Pesticides (µg/L)		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Herbicides (µg/L)		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polychlorinated Biphenyls (µg/L)		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Inorganics (µg/L)														
Aluminum (Dissolved)	~	3.94 J	4.5 J	3.95 J	5.8 J	10 U	8.96 J	4.07 J	4.32 J	10 UJ	4.26 J	4.08 J	5.49 J	3.66 J
Aluminum	~	6.46 J	13.9 U	21.8	11.8 U	22.1	286	29.8	10 U	10 U	10 U	10 U	12.4 U	11.2 U
Antimony (Dissolved)	3	34.73	2.6 J	0.51 J	4 U	4 U	0.44 J	3.24 J	1.25 J	0.63 J	0.56 J	0.59 J	1.15 J	0.8 J
Antimony	3	36.4	1.83 J	0.55 J	4 U	4 U	0.44 J	0.53 J	0.83 J	0.49 J	0.57 J	4 U	0.85 J	0.46 J
Arsenic (Dissolved)	25	13.91	7.33	5.66	8.82	18.21	4.15	6.68	3.23	3.39	1.89	2	3.01	5.59
Arsenic	25	14.16	7.03	5.97	7.13	19.6	4.26	6.32	3.69	3.55	1.86	1.54	2.88	5.95
Barium (Dissolved)	1000	37.28	62.59	34.26	28.97	23.93	54.22	44.84	19.5 J	22.82 J	21.56	24.27	22.79	32.37
Barium	1000	37.63	63.2	31.97	27.67	22.48	54.22	43.42	19.46 J	18.8 J	19.38	20.34	16.43	27.06
Cadmium (Dissolved)	5	1.15	0.18 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.33	0.2 U	0.06 J
Cadmium	5	1.11	0.19 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.31	0.2 U	0.07 J
Calcium (Dissolved)	~	73,200	146,000	155,000	150,000	68,600	134,000	139,000	196,000 J	206,000 J	160,000	58,100	33,000	139,000
Calcium	~	74,200	150,000	143,000	160,000	66,900	143,000	145,000	195,000 J	192,000 J	174,000	54,600	29,300	131,000
Chromium, Hexavalent	50	10 U	10 U	3 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chromium, Total (Dissolved)	50	0.33 J	0.24 J	0.66 J	0.25 J	0.83 J	0.2 J	0.25 J	1 UJ	0.18 J	0.29 J	0.46 J	1 U	1 U
Chromium, Total	50	0.38 J	0.99 J	0.59 J	0.39 J	1.04	2.23	0.59 J	0.33 J	0.29 J	0.34 J	0.69 J	1 U	0.33 J
Cobalt (Dissolved)	~	0.81	0.77	0.5 U	0.5 U	0.5 U	0.29 J	1.72	0.36 J	0.32 J	0.45 J	1.84	0.36 J	0.4 J
Cobalt	~	0.74	0.75	0.5 U	0.5 U	0.5 U	0.39 J	1.75	0.31 J	0.27 J	0.55	1.55	0.34 J	0.35 J
Copper (Dissolved)	200	0.64 J	3.33	0.46 J	0.47 J	0.64 J	1.9	1.7	0.46 J	1.43 J	1.44	2.66	2.25	1.95
Copper	200	0.82 J	2.05	1 U	1 U	1 U	1.42	1.24	0.66 J	0.59 J	1 U	1.21	0.9 J	0.95 J
Cyanide	200	3 J	16	2 J	2 J	2 J	5 U	5 U	3 J	1 J	5 U	2 J	5 U	2 J
Iron (Dissolved)	300	5,370	1,090	1,630	1,680	14,200	1,070	3,830	1,090 J	1,170 J	2,220	2,120	397	2,450
Iron	300	5,420	1,260	1,540	1,740	14,300	1,490	3,790	1,240 J	1,160 J	2,350	2,010	449	2,490
Lead (Dissolved)	25	1 U	0.88 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Lead	25	1 U	0.89 J	0.47 J	1 U	1 U	0.92 J	0.37 J	1 U	1 U	1 U	1 U	0.82 J	1 U
Magnesium (Dissolved)	35000	5,970	20,600	23,300	30,000	11,200	19,600	15,400	23,400 J	24,900 J	24,400	8,010	7,770	34,200
Magnesium	35000	6,230	20,900	24,100	28,000	11,300	19,800	15,600	24,000	24,000	24,800	7,640	6,920	32,900
Manganese (Dissolved)	300	271.1	74.52	470.3	57.56	1,010	76.79	1,599	76.4 J	81.88 J	666.6	158.1	33.97	83.03
Manganese	300	274.9	81.42	441.9	62.86	1,012	84.01	1,668	77.98 J	69.94 J	707	142	29.49	78.9
Nickel (Dissolved)	100	3.21	3.15	0.96 J	0.79 J	0.62 J	1.46 J	2.38	1.6 J	1.56 J	1.17 J	6.06	1.6 J	2.13
Nickel	100	3.3	3.05	0.9 J	0.69 J	0.74 J	2.13	2.27	1.84 J	1.52 J	1.38 J	5.39	1.35 J	1.88 J
Potassium (Dissolved)	~	5,710	13,600	21,900	27,100	8,840	15,400	8,060	18,500 J	19,600 J	15,500	7,090	3,890	17,000
Potassium	~	5,830	13,900	20,400	28,100	8,500	16,500	8,270	18,500 J	18,400 J	16,100	6,530	3,410	16,200
Selenium (Dissolved)	10	5 U	3.44 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Selenium	10	5 U	3.05 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Sodium (Dissolved)	20000	97,500	79,000	303,000	268,000	110,000	84,200	35,700	122,000 J	128,000 J	93,800	62,900	26,100	164,000
Sodium	20000	131,000 J	96,700	259,000	323,000	93,400	106,000	32,700	104,000 J	106,000 J	116,000	49,300	22,500	133,000
Vanadium (Dissolved)	~	4.43 J	10.99	1.91 J	2.17 J	2.81 J	1.87 J	1.81 J	2.06 J	2.06 J	5 U	5 U	2.76 J	2.32 J
Vanadium	~	4.27 J	10.9	2.3 J	1.94 J	3.03 J	2.58 J	1.93 J	2.12 J	2.06 J	5 U	5 U	2.3 J	1.89 J
Zinc (Dissolved)	2000	280.2	85.56	10 U	6.77 J	10 U	11.58	6.16 J	5.44 J	6.97 J	6.76 J	324.7	41.6	22.8
Zinc	2000	285.4	77.42	10 U	5.87 J	10 U	12.47	5.68 J	7.03 J	5.86 J	4.02 J	318.9	37.12	22.07

Table C-2
2020 RI Groundwater Summary Report
Groundwater Sample Analytical Results

1607 Surf Avenue
Brooklyn, New York
Langan Project No.: 170599501

Notes:

1. Groundwater sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules and Regulations (NYCRR) Part 703.5 and the NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values for Class GA Water (herein collectively referenced as "NYSDEC SGVs").
2. Criterion comparisons for total xylenes and m,p-xylene are provided for reference. Promulgated NYSDEC SGVs are for o-xylene, m-xylene, and p-xylene.
3. Only detected analytes are shown in the table.
4. Detected analytical results above NYSDEC SGVs are bolded and shaded.
5. Analytical results with reporting limits (RL) above NYSDEC SGVs are italicized.
6. Sample GWDUP01_021920 is a duplicate sample of MW-8_021920.
7. ~ = Regulatory limit for this analyte does not exist
8. µg/L = micrograms per liter
9. NA = Not analyzed
10. ND = Not detected

Qualifiers:

- J – The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ – The analyte was not detected at a level greater than or equal to the reporting limit (RL); however, the reported RL is approximate and may be inaccurate or imprecise.
- U – The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contaminant.

Table C-3
2020 RI Soil Vapor Summary Report
Soil Vapor Sample Analytical Results

1607 Surf Avenue
Brooklyn, New York
Langan Project No.: 170599501

Location	NYSDOH	AA01		AA02		SV-1		SV-2		SV-3		SV-4		SV-5		SV-6	
Sample ID	Decision	AA01_021220		AA02_021320		SV-1_021220		SV-2_021320		SV-3_021220		SV-4_021220		SV-5_021220		SV-6_021320	
Laboratory ID	Matrices	L2006386-07		L2006636-04		L2006386-04		L2006636-03		L2006386-09		L2006386-05		L2006386-06		L2006636-05	
Sample	Minimum	2/12/2020		2/13/2020		2/12/2020		2/13/2020		2/12/2020		2/12/2020		2/12/2020		2/13/2020	
Sample Type	Concentrations	AA		AA		AS		AS		AS		AS		AS		AS	
Volatile Organic Compounds (µg/m³)																	
1,1,1-Trichloroethane	100	2.7	U	3.18	U	1.09	U	68.7	U	1.36		2.7		1.09	U	1.09	U
1,1-Dichloroethane	~	2	U	2.36	U	0.809	U	51	U	0.809	U	0.809	U	0.809	U	1.33	
1,1-Dichloroethene	6	1.96	U	2.31	U	0.793	U	50	U	0.793	U	0.793	U	0.793	U	1.37	
1,2,4-Trimethylbenzene	~	2.43	U	2.86	U	2.99		61.9	U	2.15		2.29		1.91		1.92	
1,3,5-Trimethylbenzene (Mesitylene)	~	2.43	U	2.86	U	1.3		61.9	U	0.983	U	0.983	U	0.983	U	0.983	U
1,3-Butadiene	~	1.1	U	1.29	U	0.442	U	27.9	U	0.442	U	0.478		0.442	U	4.16	
2,2,4-Trimethylpentane	~	2.31	U	2.72	U	2.47		58.9	U	2.94		0.934	U	0.934	U	0.934	U
2-Hexanone	~	2.03	U	2.39	U	0.82	U	51.6	U	0.82	U	0.82	U	0.82	U	0.82	U
4-Ethyltoluene	~	2.43	U	2.86	U	0.983	U	61.9	U	0.983	U	0.983	U	0.983	U	0.983	U
Acetone	~	5.89	U	6.91	U	107		150	U	11.9		25.4		10.4		24.9	
Benzene	~	1.58	U	1.86	U	7.32		40.3	U	0.748		3.11		0.639	U	2.37	
Carbon Disulfide	~	1.54	U	1.81	U	11.4		39.2	U	2.44		12.4		0.623	U	47.6	
Chloroform	~	2.42	U	2.84	U	0.977	U	61.5	U	0.977	U	0.977	U	0.977	U	0.977	U
Chloromethane	~	1.07		1.29		0.413	U	26	U	0.413	U	0.413	U	0.413	U	0.413	U
Cis-1,2-Dichloroethene	6	1.96	U	2.31	U	0.793	U	2,390		0.793	U	0.793	U	0.793	U	21.8	
Cyclohexane	~	1.7	U	2	U	0.688	U	43.4	U	0.688	U	1.36		0.688	U	43	
Dichlorodifluoromethane	~	2.45	U	2.88	U	22.8		62.3	U	93.5		234		117		35.2	
Ethylbenzene	~	2.15	U	2.53	U	6.56		54.7	U	1.11		1.69		0.869	U	1.37	
Isopropanol	~	3.05	U	3.59	U	1.4		77.4	U	1.23	U	1.23	U	1.23	U	1.23	U
M,P-Xylene	~	4.3	U	5.04	U	14.7		109	U	4.34		6.25		3.84		5.04	
Methyl Ethyl Ketone (2-Butanone)	~	3.66	U	4.31	U	8.32		92.9	U	1.47	U	7.43		1.47	U	5.72	
n-Heptane	~	2.03	U	2.39	U	1.07		51.6	U	0.82	U	2.71		0.82	U	36.1	
n-Hexane	~	1.74	U	2.05	U	2.46		44.4	U	0.705	U	2.66		0.705	U	40.2	
o-Xylene (1,2-Dimethylbenzene)	~	2.15	U	2.53	U	6.43		54.7	U	1.47		2.29		1.35		1.94	
Tert-Butyl Alcohol	~	3.76	U	4.43	U	1.52	U	95.5	U	1.52	U	1.52	U	1.52	U	3.4	
Tetrachloroethene (PCE)	100	3.36	U	3.95	U	5.23		23,200		4.52		3.62		5.45		7.12	
Toluene	~	1.87	U	2.19	U	17.1		47.5	U	14.5		8.55		2.45		5.2	
Total Xylenes	~	2.15	U	NA		21.2		NA		5.82		8.56		5.21		NA	
Trans-1,2-Dichloroethene	~	1.96	U	2.31	U	0.793	U	50	U	0.793	U	0.793	U	0.793	U	0.793	U
Trichloroethene (TCE)	6	2.66	U	3.13	U	1.07	U	1,900		1.07	U	1.07	U	1.07	U	3.65	
Trichlorofluoromethane	~	2.78	U	3.27	U	2.13		70.8	U	1.33		5.73		1.64		1.12	U
Vinyl Chloride	6	1.27	U	1.49	U	0.511	U	32.2	U	0.511	U	0.511	U	0.511	U	22.2	

Table C-3
2020 RI Soil Vapor Summary Report
Soil Vapor Sample Analytical Results

1607 Surf Avenue
Brooklyn, New York
Langan Project No.: 170599501

Location	NYSDOH	SV-7	SV-8	SV-9	SV-10	SV-11	SV-12	SV-13	SV-14	SV-15
Sample ID	Decision	SV-7_021220	SV-8_021220	SV-9_021220	SV-10_021320	SV-11_021220	SV-12_021220	SV-13_021320	SV-14_021320	SV-15_021320
Laboratory ID	Matrices	L2006386-02	L2006386-01	L2006386-03	L2006636-06	L2006386-10	L2006386-08	L2006636-02	L2006636-07	L2006636-01
Sample	Minimum	2/12/2020	2/12/2020	2/12/2020	2/13/2020	2/12/2020	2/12/2020	2/13/2020	2/13/2020	2/13/2020
Sample Type	Concentrations	AS	AS	AS	AS	AS	AS	AS	AS	AS
Volatile Organic Compounds (µg/m³)										
1,1,1-Trichloroethane	100	2.27	3.41 U	1.09 U	1.09 U	5.25	8.51	5.43	1.09 U	3.26
1,1-Dichloroethane	~	1.62 U	2.53 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,1-Dichloroethene	6	1.59 U	2.48 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
1,2,4-Trimethylbenzene	~	3.59	6.78	1.7	2.17	1.89	3.05	2.11	1.22	1.75
1,3,5-Trimethylbenzene (Mesitylene)	~	2.95	7.82	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,3-Butadiene	~	5.77	2.05	0.442 U	0.489	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
2,2,4-Trimethylpentane	~	1.87 U	2.92 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U
2-Hexanone	~	1.64 U	2.56 U	0.82 U	6.07	0.82 U	7.54	0.82 U	0.82 U	0.82 U
4-Ethyltoluene	~	1.97 U	3.07 U	0.983 U	0.983 U	0.983 U	1	0.983 U	0.983 U	0.983 U
Acetone	~	20.9	27.1	11.3	28.7	17.1	24.7	10	16.7	6.53
Benzene	~	7.12	6.2	0.639 U	1.93	0.674	0.639 U	0.639 U	0.639 U	0.639 U
Carbon Disulfide	~	27.7	37.7	0.623 U	5.98	2.76	0.623 U	1.64	0.685	0.623 U
Chloroform	~	1.95 U	3.05 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	1.44	0.977 U
Chloromethane	~	0.826 U	1.29 U	0.413 U	0.413 U	0.413 U	0.413 U	0.413 U	0.413 U	0.413 U
Cis-1,2-Dichloroethene	6	4.08	2.48 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
Cyclohexane	~	2.35	2.91	0.688 U	2.7	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U
Dichlorodifluoromethane	~	114	84.6	13.9	16.6	309	21.9	4	4.23	170
Ethylbenzene	~	1.92	3.65	1.1	1.11	0.986	2.1	1	0.869 U	1.11
Isopropanol	~	2.46 U	3.83 U	1.23 U	1.23 U	1.23 U	1.23 U	1.23 U	1.23 U	1.23 U
M,P-Xylene	~	6.6	37.7	4.86	4.1	4.43	7.99	4.34	1.74	4.52
Methyl Ethyl Ketone (2-Butanone)	~	10	28.4	1.47 U	14	2.85	22.8	1.47 U	1.62	1.47 U
n-Heptane	~	220	212	0.82 U	3.33	0.82 U	3.4	0.82 U	0.82 U	0.82 U
n-Hexane	~	329	193	0.705 U	2.3	0.705 U	0.758	0.705 U	0.705 U	0.835
o-Xylene (1,2-Dimethylbenzene)	~	3.13	23.1	1.6	1.5	1.45	2.8	1.5	0.869 U	1.51
Tert-Butyl Alcohol	~	3.03 U	4.73 U	1.52 U	1.52 U	1.52 U	3.03	1.52 U	1.52 U	1.52 U
Tetrachloroethene (PCE)	100	18.3	14.2	4.69	7.8	2.76	14	12	27.7	7.46
Toluene	~	6.41	19.3	3.37	3.23	3.22	5.43	3.01	1.37	4.45
Total Xylenes	~	9.73	60.8	6.47	NA	5.86	10.8	NA	NA	NA
Trans-1,2-Dichloroethene	~	1.59 U	2.48 U	0.793 U	0.793 U	0.793 U	1.3	0.793 U	0.793 U	0.793 U
Trichloroethene (TCE)	6	2.15 U	3.36 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U
Trichlorofluoromethane	~	7.81	4.32	2.03	1.12 U	1.46	11.4	12.5	27.8	2.38
Vinyl Chloride	6	1.02 U	1.6 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U

Table C-3
2020 RI Soil Vapor Summary Report
Soil Vapor Sample Analytical Results

1607 Surf Avenue
Brooklyn, New York
Langan Project No.: 170599501

Notes:

1. Soil vapor sample analytical results are compared to the minimum soil vapor concentrations recommending mitigation as set forth in the New York State Department of Health (NYSDOH) October 2006 Guidance for Evaluating Soil Vapor Intrusion in the State of New York Decision Matrices for Sub-Slab Vapor and Indoor Air and subsequent updates (2017).
2. Ambient air sample analytical results are shown for reference only.
3. Only detected analytes are shown in the table.
4. Detected analytical results above the minimum soil vapor concentrations recommending mitigation are bolded and shaded.
5. Analytical results with reporting limits (RL) above the minimum soil vapor concentrations recommending mitigation are italicized.
6. ~ = Regulatory limit for this analyte does not exist
7. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter
8. AA = Ambient Air
9. SV = Soil Vapor

Qualifiers:

U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.

S6 was not installed at the property and is associated with an investigation of a neighboring property. Please refer to 2018 Hillmann Phase II report for more information.

Table 1(a) - Soil Results - VOCs

1601 Surf Avenue, Block 7062
Coney Island, New York

Hillmann Consulting, LLC
Project #: G6-2368

Sample Date: 05/30/2018

Target Compounds	NYSDEC Unrestricted Use SCO	NYSDEC Restricted Residential SCO	S1 Sample Depth: 4.0-5.0'				S2 Sample Depth: 4.0-5.0'				S2 Sample Depth: 4.0-5.0'				S4 Sample Depth: 5.0-6.0'				S5 Sample Depth: 5.0-6.0'				S6 Sample Depth: 3.0-4.0'			
			Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatiles (mg/Kg)																										
1,1,1-Trichloroethane	0.68	100	ND		0.00103	0.000243	ND		0.00136	0.000321	ND		0.00124	0.000293	ND		0.032	0.030	ND		0.00125	0.000295	ND		0.057	0.052
1,1,2,2-Tetrachloroethane	NS	NS	ND		0.00206	0.000277	ND		0.00272	0.000366	ND		0.00248	0.000334	ND		0.065	0.030	ND		0.0025	0.000336	ND		0.113	0.052
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	ND		0.00103	0.000374	ND		0.00136	0.000494	ND		0.00124	0.00045	ND		0.065	0.036	ND		0.00125	0.000454	ND		0.113	0.064
1,1,2-Trichloroethane	NS	NS	ND		0.00103	0.000278	ND		0.00136	0.000367	ND		0.00124	0.000335	ND		0.032	0.031	ND		0.00125	0.000338	ND		0.057	0.054
1,1-Dichloroethane	0.27	26	ND		0.00103	0.0002	ND		0.00136	0.000264	ND		0.00124	0.000241	ND		0.032	0.032	ND		0.00125	0.000243	ND		0.057	0.056
1,1-Dichloroethane (EDB)	0.33	100	ND		0.00103	0.000388	ND		0.00136	0.000513	ND		0.00124	0.000467	ND		0.032	0.032	ND		0.00125	0.000471	ND		0.057	0.056
1,2,3-Trichlorobenzene	NS	NS	ND		0.00103	0.000495	ND		0.00136	0.000654	ND		0.00124	0.000596	ND		0.065	0.022	ND		0.00125	0.000601	ND		0.113	0.038
1,2,4-Trichlorobenzene	NS	NS	ND		0.00103	0.000453	ND		0.00136	0.000598	ND		0.00124	0.000546	ND		0.065	0.020	ND		0.00125	0.000605	ND		0.113	0.035
1,2-Dibromo-3-chloropropane	NS	NS	ND		0.00206	0.000278	ND		0.00272	0.000367	ND		0.00248	0.000335	ND		0.065	0.034	ND		0.0025	0.000338	ND		0.113	0.060
1,2-Dibromoethane (EDB)	NS	NS	ND		0.00103	0.000182	ND		0.00136	0.000241	ND		0.00124	0.000219	ND		0.032	0.026	ND		0.00125	0.000221	ND		0.057	0.046
1,2-Dichlorobenzene	1.1	100	ND		0.00103	0.000178	ND		0.00136	0.000235	ND		0.00124	0.000215	ND		0.032	0.024	ND		0.00125	0.000216	ND		0.057	0.041
1,2-Dichloroethane (EDC)	0.02	3.1	ND		0.00103	0.000272	ND		0.00136	0.000359	ND		0.00124	0.000327	ND		0.032	0.030	ND		0.00125	0.00033	ND		0.057	0.052
1,2-Dichloropropane	NS	NS	ND		0.00103	0.000174	ND		0.00136	0.00023	ND		0.00124	0.00021	ND		0.032	0.029	ND		0.00125	0.000211	ND		0.057	0.051
1,3-Dichlorobenzene	2.4	49	ND		0.00103	0.000498	ND		0.00136	0.000282	ND		0.00124	0.000239	ND		0.032	0.023	ND		0.00125	0.000241	ND		0.057	0.040
1,3-Dichloropropene (cis- and trans-)	NS	NS	ND		0.00103	0.000238	ND		0.00136	0.000314	ND		0.00124	0.000286	ND		0.065	0.021	ND		0.00125	0.000289	ND		0.113	0.038
1,4-Dichlorobenzene	1.8	13	ND		0.00103	0.000176	0.000403	J	0.00136	0.000233	ND		0.00124	0.000212	0.023	J	0.032	0.022	ND		0.00125	0.000214	ND		0.057	0.039
1,4-Dioxane	0.1	13	ND		0.206	0.037	ND		0.272	0.049	ND		0.248	0.044	ND		6.45	6.34	ND		0.250	0.045	ND		11.3	11.2
2-Butanone (MEK)	0.12	100	ND		0.00206	0.000507	ND		0.00272	0.000669	ND		0.00248	0.00061	ND		0.129	0.107	ND		0.0025	0.000615	ND		0.227	0.188
2-Hexanone	NS	NS	ND		0.00206	0.00107	ND		0.00272	0.00142	ND		0.00248	0.00129	ND		0.129	0.049	ND		0.0025	0.0013	ND		0.227	0.086
4-Methyl-2-pentanone (MIBK)	NS	NS	ND		0.00206	0.000596	ND		0.00272	0.000787	ND		0.00248	0.000718	ND		0.129	0.045	ND		0.0025	0.000724	ND		0.227	0.079
Acetone	0.05	100	ND		0.010	0.00101	ND		0.014	0.00133	ND		0.012	0.00121	ND		0.129	0.086	0.022		0.013	0.00122	ND		0.227	0.151
Benzene	0.06	4.8	ND		0.00103	0.000269	ND		0.00136	0.000355	ND		0.00124	0.000324	ND		0.032	0.030	ND		0.00125	0.000326	ND		0.057	0.053
Bromochloromethane	NS	NS	ND		0.00103	0.000286	ND		0.00136	0.000378	ND		0.00124	0.000345	ND		0.065	0.038	ND		0.00125	0.000348	ND		0.113	0.068
Bromodichloromethane	NS	NS	ND		0.00103	0.00024	ND		0.00136	0.000317	ND		0.00124	0.000289	ND		0.032	0.023	ND		0.00125	0.000291	ND		0.057	0.040
Bromoforn	NS	NS	ND		0.00103	0.000296	ND		0.00136	0.00039	ND		0.00124	0.000356	ND		0.032	0.029	ND		0.00125	0.000359	ND		0.057	0.050
Bromomethane	NS	NS	ND		0.00103	0.000307	ND		0.00136	0.000405	ND		0.00124	0.00037	ND		0.065	0.035	ND		0.00125	0.000373	ND		0.113	0.062
Carbon disulfide	NS	NS	ND		0.00103	0.000319	ND		0.00136	0.000422	ND		0.00124	0.000384	ND		0.032	0.030	ND		0.00125	0.000388	ND		0.057	0.053
Carbon tetrachloride	0.76	2.4	ND		0.00103	0.000166	ND		0.00136	0.000219	ND		0.00124	0.0002	ND		0.065	0.029	ND		0.00125	0.000201	ND		0.113	0.051
Chlorobenzene	1.1	100	ND		0.00103	0.000232	ND		0.00136	0.000306	ND		0.00124	0.000279	ND		0.032	0.024	ND		0.00125	0.000281	ND		0.057	0.043
Chloroethane	NS	NS	ND		0.00103	0.000273	ND		0.00136	0.00036	ND		0.00124	0.000329	ND		0.032	0.032	ND		0.00125	0.000331	ND		0.057	0.056
Chloroform	0.37	49	ND		0.00103	0.000216	ND		0.00136	0.000286	ND		0.00124	0.00026	ND		0.032	0.030	ND		0.00125	0.000283	ND		0.057	0.053
Chloromethane	NS	NS	ND		0.00103	0.000191	ND		0.00136	0.000252	ND		0.00124	0.000229	ND		0.032	0.030	ND		0.00125	0.000231	ND		0.057	0.053
cis-1,2-Dichloroethane	0.25	100	0.000367	J	0.00103	0.000219	ND		0.00136	0.00029	ND		0.00124	0.000264	ND		0.032	0.029	ND		0.00125	0.000266	ND		0.057	0.051
cis-1,3-Dichloropropene	NS	NS	ND		0.00103	0.000211	ND		0.00136	0.000279	ND		0.00124	0.000254	ND		0.032	0.021	ND		0.00125	0.000256	ND		0.057	0.038
Cyclohexane	NS	NS	ND		0.00103	0.000187	ND		0.00136	0.000248	0.00308		0.00124	0.000226	ND		0.065	0.027	ND		0.00125	0.000228	ND		0.113	0.047
Dibromochloromethane	NS	NS	ND		0.00103	0.000193	ND		0.00136	0.000254	ND		0.00124	0.000232	ND		0.032	0.029	ND		0.00125	0.000234	ND		0.057	0.050
Dichlorodifluoromethane	NS	NS	ND		0.00103	0.000242	ND		0.00136	0.00032	ND		0.00124	0.000291	ND		0.065	0.043	ND		0.00125	0.000294	ND		0.113	0.075
Ethylbenzene	1	41	ND		0.00103	0.000251	ND		0.00136	0.000332	0.00188		0.00124	0.000303	ND		0.032	0.022	ND		0.00125	0.000305	ND		0.057	0.039
Isopropylbenzene	NS	NS	ND		0.00103	0.000204	ND		0.00136	0.000269	0.000801	J	0.00124	0.000246	ND		0.032	0.021	ND		0.00125	0.000248	ND		0.057	0.037
Methyl acetate	NS	NS	ND		0.00103	0.000481	ND		0.00136	0.000635	ND		0.00124	0.000579	ND		0.032	0.031	ND		0.00125	0.000584	1.93		0.057	0.055
Methyl tert-butyl ether (MTBE)	0.93	100	ND		0.00103	0.000199	ND		0.00136	0.000262	ND		0.00124	0.000239	ND		0.032	0.031	ND		0.00125	0.000241	ND		0.057	0.054
Methylcyclohexane	NS	NS	ND		0.00103	0.000214	ND		0.00136	0.000283	0.00468		0.00124	0.000258	ND		0.032	0.027	ND		0.00125	0.00026	ND		0.057	0.047
Methylene chloride	0.05	100	ND		0.00206	0.000205	ND		0.00272	0.000271	ND		0.00248	0.000247	ND		0.065	0.064	ND		0.0025	0.000249	ND		0.113	0.112
Styrene	NS	NS	ND		0.00103	0.000212	ND		0.00136	0.00028	ND		0.00124	0.000255	ND		0.032	0.019	0.000541	J	0.00125	0.000258	ND		0.057	0.033
Tetrachloroethane	1.3	19	0.148		0.00103	0.00026																				

S6 was not installed at the property and is associated with an investigation of a neighboring property. Please refer to 2018 Hillmann Phase II report for more information.

Table 1(a) (Cont'd) - Soil Results - SVOCs

1601 Surf Avenue, Block 7062
Coney Island, New York

Hillmann Consulting, LLC
Project #: G6-2368

Sample Date: 05/30/2018

Target Compounds	NYSDEC Unrestricted Use SCO	NYSDEC Restricted Residential SCO	S1 Sample Depth: 4.0-5.0'				S2 Sample Depth: 4.0-5.0'				S3 Sample Depth: 4.0-5.0'				S4 Sample Depth: 5.0-6.0'				S5 Sample Depth: 5.0-6.0'				S6 Sample Depth: 3.0-4.0'			
			Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Semivolatiles - BNA (mg/Kg)																										
1,1'-Biphenyl	NS	NS	0.048		0.037	0.034	ND		0.035	0.032	ND		0.037	0.035	0.170		0.039	0.037	0.034	J	0.036	0.034	ND		0.067	0.063
1,2,4,5-Tetrachlorobenzene	NS	NS	ND		0.037	0.032	ND		0.035	0.030	ND		0.037	0.032	ND		0.039	0.034	ND		0.036	0.032	ND		0.067	0.058
2,2'-Oxybis(1-Chloropropane)	NS	NS	ND		0.037	0.031	ND		0.035	0.029	ND		0.037	0.031	ND		0.039	0.033	ND		0.036	0.030	ND		0.067	0.056
2,4-Dinitrotoluene	NS	NS	ND		0.037	0.033	ND		0.035	0.032	ND		0.037	0.034	ND		0.039	0.036	ND		0.036	0.033	ND		0.067	0.061
2,6-Dinitrotoluene	NS	NS	ND		0.037	0.028	ND		0.035	0.026	ND		0.037	0.028	ND		0.039	0.030	ND		0.036	0.028	ND		0.067	0.051
2-Chloronaphthalene	NS	NS	ND		0.037	0.030	ND		0.035	0.029	ND		0.037	0.030	ND		0.039	0.032	ND		0.036	0.030	ND		0.067	0.055
2-Methylnaphthalene	NS	NS	0.142		0.037	0.026	ND		0.035	0.024	ND		0.037	0.026	0.279		0.039	0.028	0.073		0.036	0.026	ND		0.067	0.047
2-Nitroaniline	NS	NS	ND		0.037	0.026	ND		0.035	0.024	ND		0.037	0.026	ND		0.039	0.028	ND		0.036	0.025	ND		0.067	0.047
3,3'-Dichlorobenzidine	NS	NS	ND		0.037	0.026	ND		0.035	0.025	ND		0.037	0.027	ND		0.039	0.029	ND		0.036	0.026	ND		0.067	0.049
3-Nitroaniline	NS	NS	ND		0.037	0.029	ND		0.035	0.028	ND		0.037	0.030	ND		0.039	0.031	ND		0.036	0.029	ND		0.067	0.054
4-Bromophenyl phenyl ether	NS	NS	ND		0.037	0.031	ND		0.035	0.029	ND		0.037	0.031	ND		0.039	0.033	ND		0.036	0.031	ND		0.067	0.057
4-Chloroaniline	NS	NS	ND		0.037	0.024	ND		0.035	0.023	ND		0.037	0.024	ND		0.039	0.026	ND		0.036	0.024	ND		0.067	0.044
4-Chlorophenyl phenyl ether	NS	NS	ND		0.037	0.034	ND		0.035	0.032	ND		0.037	0.034	ND		0.039	0.037	ND		0.036	0.034	ND		0.067	0.063
4-Nitroaniline	NS	NS	ND		0.037	0.028	ND		0.035	0.026	ND		0.037	0.028	ND		0.039	0.030	ND		0.036	0.027	ND		0.067	0.051
Acenaphthene	20	100	0.442		0.037	0.032	0.044		0.035	0.031	ND		0.037	0.033	1.37		0.039	0.035	0.516		0.036	0.032	ND		0.067	0.060
Acenaphthylene	100	100	0.095		0.037	0.030	ND		0.035	0.029	ND		0.037	0.030	2.28		0.039	0.032	0.933		0.036	0.030	ND		0.067	0.055
Acetophenone	NS	NS	ND		0.037	0.035	ND		0.035	0.033	ND		0.037	0.035	ND		0.039	0.037	ND		0.036	0.034	ND		0.067	0.064
Anthracene	100	100	1.06		0.037	0.032	0.078		0.035	0.031	0.050		0.037	0.033	4.22		0.039	0.035	3.05		0.036	0.032	ND		0.067	0.059
Atrazine	NS	NS	ND		0.037	0.032	ND		0.035	0.030	ND		0.037	0.032	ND		0.039	0.034	ND		0.036	0.032	ND		0.067	0.058
Benzaldehyde	NS	NS	ND		0.037	0.036	ND		0.035	0.034	ND		0.037	0.036	ND		0.039	0.038	ND		0.036	0.035	ND		0.067	0.066
Benz[a]anthracene	1	1	1.91		0.037	0.031	0.136		0.035	0.030	0.227		0.037	0.032	12.8	D	0.394	0.338	14.8	D	0.182	0.156	0.067	D	0.067	0.058
Benz[b]fluoranthene	1	1	1.24		0.037	0.030	0.080		0.035	0.028	0.157		0.037	0.030	8.38	D	0.394	0.322	10.3	D	0.182	0.149	ND		0.067	0.055
Benz[g,h]perylene	1	1	0.949		0.037	0.029	0.088		0.035	0.028	0.178		0.037	0.030	8.59	D	0.394	0.316	8.48	D	0.182	0.146	ND		0.067	0.054
Benz[ghi]perylene	100	100	0.805		0.037	0.033	0.068		0.035	0.031	0.127		0.037	0.033	4.85		0.039	0.036	6.11	D	0.182	0.164	0.189	D	0.067	0.061
Benz[k]fluoranthene	0.8	3.8	1.08		0.037	0.031	0.073		0.035	0.029	0.131		0.037	0.031	4.91		0.039	0.033	4.31		0.036	0.031	ND		0.067	0.057
Bis(2-chloroethoxy) methane	NS	NS	ND		0.037	0.033	ND		0.035	0.031	ND		0.037	0.033	ND		0.039	0.035	ND		0.036	0.033	ND		0.067	0.061
Bis(2-chloroethyl) ether	NS	NS	ND		0.037	0.033	ND		0.035	0.032	ND		0.037	0.034	ND		0.039	0.036	ND		0.036	0.033	ND		0.067	0.061
Bis(2-ethylhexyl) phthalate	NS	NS	0.037		0.037	0.023	ND		0.035	0.021	0.051		0.037	0.023	0.275		0.039	0.024	ND		0.036	0.023	0.078	D	0.067	0.042
Butyl benzyl phthalate	NS	NS	ND		0.037	0.034	ND		0.035	0.032	ND		0.037	0.034	ND		0.039	0.036	ND		0.036	0.033	ND		0.067	0.062
Caprolactam	NS	NS	ND		0.037	0.024	ND		0.035	0.023	ND		0.037	0.025	ND		0.039	0.026	ND		0.036	0.024	ND		0.067	0.045
Carbazole	NS	NS	0.473		0.037	0.028	0.034	J	0.035	0.027	ND		0.037	0.029	1.52		0.039	0.031	0.514		0.036	0.028	ND		0.067	0.052
Chrysene	1	3.9	1.94		0.037	0.031	0.137		0.035	0.030	0.211		0.037	0.032	12.5	D	0.394	0.338	13.5	D	0.182	0.156	0.074	D	0.067	0.058
Dibenz[a,h]anthracene	0.33	0.33	0.346		0.037	0.036	ND		0.035	0.034	0.047		0.037	0.036	2.35		0.039	0.039	2.90		0.036	0.036	ND		0.067	0.066
Dibenzofuran	7	59	0.387		0.037	0.031	ND		0.035	0.030	ND		0.037	0.032	1.09		0.039	0.034	0.184		0.036	0.031	ND		0.067	0.058
Diethyl phthalate	NS	NS	ND		0.037	0.036	ND		0.035	0.034	ND		0.037	0.036	ND		0.039	0.039	ND		0.036	0.036	ND		0.067	0.066
Dimethyl phthalate	NS	NS	ND		0.037	0.034	ND		0.035	0.032	ND		0.037	0.034	ND		0.039	0.036	ND		0.036	0.034	ND		0.067	0.062
Di-n-butyl phthalate	NS	NS	0.139		0.037	0.028	ND		0.035	0.026	ND		0.037	0.028	ND		0.039	0.030	ND		0.036	0.028	ND		0.067	0.051
Dinitrotoluene (2,4- and 2,6-)	NS	NS	ND		0.037	0.033	ND		0.035	0.032	ND		0.037	0.034	ND		0.039	0.036	ND		0.036	0.033	ND		0.067	0.061
Di-n-octyl phthalate	NS	NS	ND		0.037	0.032	ND		0.035	0.030	ND		0.037	0.032	ND		0.039	0.034	ND		0.036	0.032	ND		0.067	0.059
Fluoranthene	100	100	4.41		0.037	0.031	0.353		0.035	0.029	0.430		0.037	0.031	37.4	D	0.394	0.332	29.1	D	0.182	0.153	0.134	D	0.067	0.057
Fluorene	30	100	0.403		0.037	0.033	0.032	J	0.035	0.031	ND		0.037	0.033	2.16		0.039	0.036	0.502		0.036	0.033	ND		0.067	0.061
Hexachlorobenzene	0.33	1.2	ND		0.037	0.034	ND		0.035	0.032	ND		0.037	0.034	ND		0.039	0.036	ND		0.036	0.034	ND		0.067	0.062
Hexachlorobutadiene	NS	NS	ND		0.037	0.034	ND		0.035	0.032	ND		0.037	0.034	ND		0.039	0.036	ND		0.036	0.034	ND		0.067	0.062
Hexachlorocyclopentadiene	NS	NS	ND		0.037	0.032	ND		0.035	0.031	ND		0.037	0.033	ND		0.039	0.035	ND		0.036	0.032	ND		0.067	0.059
Hexachloroethane	NS	NS	ND		0.037	0.031	ND		0.035	0.029	ND		0.037	0.031	ND		0.039	0.033	ND		0.036	0.031	ND		0.067	0.057
Indeno[1,2,3-cd]pyrene	0.5	0.5	0.653		0.037	0.030	0.053		0.035	0.029	0.103		0.037	0.031	4.56		0.039	0.033	5.63		0.036	0.030	0.095	D	0.067	0.056
Isophorone	NS	NS	ND		0.037	0.031	ND		0.035	0.029	ND		0.037	0.031	ND		0.039	0.033	ND		0.036	0.031	ND		0.	

Table 2(a) - Groundwater Results - VOCs and Metals

1601 Surf Avenue, Block 7062
Coney Island, New York

Hillmann Consulting, LLC
Project #: G6-2368

Sample Date: 05/30/2018

Target Compounds	Groundwater Effluent Limitations (Class GA)	GW1			
		Conc	Q	RL	MDL
Volatiles (µg/L)					
1,1,1-Trichloroethane	5	ND		0.500	0.462
1,1,2,2-Tetrachloroethane	5	ND		0.500	0.458
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND		1.00	0.563
1,1,2-Trichloroethane	1	ND		1.00	0.473
1,1-Dichloroethane	5	ND		0.500	0.493
1,1-Dichloroethene	5	ND		0.500	0.493
1,2,3-Trichlorobenzene	5	ND		0.500	0.339
1,2,4-Trichlorobenzene	5	ND		0.500	0.304
1,2-Dibromo-3-chloropropane	0.04	ND		1.00	0.533
1,2-Dibromoethane (EDB)	0.0006	ND		0.500	0.402
1,2-Dichlorobenzene	3	ND		0.500	0.364
1,2-Dichloroethane (EDC)	0.6	ND		0.500	0.458
1,2-Dichloropropane	1	ND		0.500	0.447
1,3-Dichlorobenzene	3	ND		0.500	0.351
1,3-Dichloropropene (cis- and trans-)	0.4	ND		0.500	0.331
1,4-Dichlorobenzene	3	ND		0.500	0.341
1,4-Dioxane	NS	ND		100	98.4
2-Butanone (MEK)	50	ND		2.00	1.66
2-Hexanone	50	ND		1.00	0.761
4-Methyl-2-pentanone (MIBK)	NS	ND		1.00	0.699
Acetone	50	ND		2.00	1.33
Benzene	1	ND		0.500	0.464
Bromochloromethane	5	ND		1.00	0.596
Bromodichloromethane	50	ND		0.500	0.353
Bromoform	50	ND		0.500	0.445
Bromomethane	5	ND		1.00	0.544
Carbon disulfide	60	ND		0.500	0.464
Carbon tetrachloride	5	ND		0.500	0.449
Chlorobenzene	5	ND		0.500	0.376
Chloroethane	5	ND		0.500	0.495
Chloroform	7	ND		0.500	0.469
Chloromethane	5	ND		0.500	0.463
cis-1,2-Dichloroethene	5	ND		0.500	0.451
cis-1,3-Dichloropropene	NS	ND		0.500	0.331
Cyclohexane	NS	ND		1.00	0.411
Dibromochloromethane	50	ND		1.00	0.442
Dichlorodifluoromethane	5	ND		1.00	0.662
Ethylbenzene	5	ND		0.500	0.344
Isopropylbenzene	5	ND		0.500	0.323
Methyl acetate	NS	ND		0.500	0.485
Methyl tert-butyl ether (MTBE)	10	ND		0.500	0.479
Methylcyclohexane	NS	ND		0.500	0.411
Methylene chloride	5	ND		1.00	0.990
Styrene	930	ND		0.500	0.290
Tetrachloroethene	5	0.861		0.500	0.451
Toluene	5	ND		0.500	0.379
Total Xylenes	15	ND		1.00	0.923
trans-1,2-Dichloroethene	5	ND		0.500	0.454
trans-1,3-Dichloropropene	NS	ND		0.500	0.321
Trichloroethene	5	ND		0.500	0.493
Trichlorofluoromethane	5	ND		0.500	0.433
Vinyl chloride	2	ND		1.00	0.591
TOTAL VO's:	NS	0.861			NA
TOTAL TIC's:	NS	ND			NA
TOTAL VO's & TIC's:	NS	0.861			NA

Target Compounds	Groundwater Effluent Limitations (Class GA)	GW1				GW1- Filter			
		Conc	Q	RL	MDL	Conc	Q	RL	MDL
Metals (µg/L)									
Aluminum	NS	171		20.0	8.00	ND		20.0	8.00
Antimony	3	2.54		2.00	1.20	2.61	X	2.00	1.20
Arsenic	25	1.55	J	2.00	0.600	1.59	JX	2.00	0.600
Barium	1000	34.8		2.00	1.20	30.1		2.00	1.20
Beryllium	3	ND		1.00	0.320	ND		1.00	0.320
Cadmium	5	ND		2.00	1.00	ND		2.00	1.00
Calcium	NS	96100		200	60.0	90800		200	60.0
Chromium	50	3.92		2.00	1.00	ND		2.00	1.00
Cobalt	NS	ND		2.00	0.600	ND		2.00	0.600
Copper	200	ND		2.00	1.00	ND		2.00	1.00
Iron	NS	362		200	60.0	ND		200	60.0
Lead	25	1.86	J	2.00	1.20	ND		2.00	1.20
Magnesium	35000	14000		200	60.0	13300		200	60.0
Manganese	NS	14.2		2.00	1.40	14.4	X	2.00	1.40
Mercury	0.7	ND		0.500	0.200	ND		0.500	0.200
Nickel	100	2.67		2.00	1.20	1.82	J	2.00	1.20
Potassium	NS	5650		200	80.0	5310		200	80.0
Selenium	10	6.68	J	20.0	6.00	6.16	J	20.0	6.00
Silver	50	ND		2.00	1.20	ND		2.00	1.20
Sodium	20000	32700		200	80.0	31300		200	80.0
Thallium	0.5	ND		2.00	1.20	ND		2.00	1.20
Vanadium	NS	5.27		2.00	0.600	4.94		2.00	0.600
Zinc	2000	105		20.0	8.00	97.1		20.0	8.00

Results in Blue Highlight displays exceedance above the Groundwater Effluent Limitations

NS = No Standard Available

- = Sample not analyzed for

ND = Analyzed for but Not Detected at the MDL

J = Concentration detected at a value below the RL and above the MDL for target compounds.

For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.

C = Common Laboratory and/or Bottle Contaminant.

D = The compound was reported from the Diluted analysis

X = Samples analyzed for total and dissolved metals differ at <= 20% RPD.

Table 2(a) (Cont'd) - Groundwater Results - SVOCs, PCBS, Pesticides

1601 Surf Avenue, Block 7062
Coney Island, New York

Hillmann Consulting, LLC
Project #: G6-2362

Target Compounds	Groundwater Effluent Limitations (Class GA)	GW1			
		Conc	Q	RL	MDL
Semivolatiles - BNA (µg/L)					
1,1'-Biphenyl	5	ND		1.00	0.133
1,2,4,5-Tetrachlorobenzene	5	ND		1.00	0.923
2,2'-Oxybis(1-Chloropropane)	5	ND		1.00	0.248
2,4-Dinitrotoluene	5	ND		1.00	0.135
2,6-Dinitrotoluene	5	ND		1.00	0.139
2-Chloronaphthalene	NS	ND		1.00	0.154
2-Methylnaphthalene	NS	ND		1.00	0.128
2-Nitroaniline	5	ND		1.00	0.161
3,3'-Dichlorobenzidine	5	ND		1.00	0.399
3-Nitroaniline	5	ND		1.00	0.214
4-Bromophenyl phenyl ether	NS	ND		1.00	0.291
4-Chloroaniline	5	ND		1.00	0.140
4-Chlorophenyl phenyl ether	NS	ND		1.00	0.316
4-Nitroaniline	5	ND		1.00	0.205
Acenaphthene	NS	ND		1.00	0.129
Acenaphthylene	NS	ND		1.00	0.141
Acetophenone	NS	ND		1.00	0.180
Anthracene	50	ND		1.00	0.211
Atrazine	3	ND		1.00	0.247
Benzaldehyde	NS	ND		1.00	0.192
Benzo[a]anthracene	0.002	0.179		0.100	0.100
Benzo[a]pyrene	ND	0.170		0.100	0.100
Benzo[b]fluoranthene	0.002	0.172		0.100	0.100
Benzo[g,h,i]perylene	NS	ND		1.00	0.672
Benzo[k]fluoranthene	0.002	0.214		0.100	0.100
Bis(2-chloroethoxy) methane	5	ND		1.00	0.171
Bis(2-chloroethyl) ether	1	ND		1.00	0.243
Bis(2-ethylhexyl) phthalate	5	ND		1.00	0.277
Butyl benzyl phthalate	50	ND		1.00	0.215
Caprolactam	NS	ND		1.00	0.547
Carbazole	NS	ND		1.00	0.221
Chrysene	0.002	ND		1.00	0.245
Dibenz[a,h]anthracene	NS	0.173		0.100	0.100
Dibenzofuran	NS	ND		1.00	0.133
Diethyl phthalate	50	ND		1.00	0.166
Dimethyl phthalate	50	ND		1.00	0.137
Di-n-butyl phthalate	50	ND		1.00	0.196
Dinitrotoluene (2,4- and 2,6-)	NS	ND		1.00	0.139
Di-n-octyl phthalate	50	ND		1.00	0.306
Fluoranthene	50	ND		1.00	0.204
Fluorene	50	ND		1.00	0.182
Hexachlorobenzene	0.04	ND		0.020	0.020
Hexachlorobutadiene	0.5	ND		1.00	0.187
Hexachlorocyclopentadiene	5	ND		1.00	0.140
Hexachloroethane	5	ND		1.00	0.163
Indeno[1,2,3-cd]pyrene	0.002	0.160		0.100	0.100
Isophorone	50	ND		1.00	0.115
Naphthalene	NS	ND		1.00	0.139
Nitrobenzene	0.4	ND		1.00	0.210
N-Nitrosodi-n-propylamine	NS	ND		1.00	0.229
N-Nitrosodiphenylamine	50	ND		1.00	0.179
Phenanthrene	50	ND		1.00	0.175
Pyrene	50	ND		1.00	0.339
TOTAL BN'S:	NS	1.07			NA
TOTAL BN'S & TIC'S:	NS	1.07			NA
TOTAL TIC'S:	NS	ND			NA

Target Compounds	Groundwater Effluent Limitations (Class GA)	GW1			
		Conc	Q	RL	MDL
PCBs (µg/L)					
Aroclor-1016	NS	ND		0.050	0.020
Aroclor-1221	NS	ND		0.050	0.020
Aroclor-1232	NS	ND		0.050	0.020
Aroclor-1242	NS	ND		0.050	0.020
Aroclor-1248	NS	ND		0.050	0.020
Aroclor-1254	NS	ND		0.050	0.020
Aroclor-1260	NS	ND		0.050	0.020
Aroclor-1262	NS	ND		0.050	0.020
Aroclor-1268	NS	ND		0.050	0.020
PCBs	0.09	ND		0.050	0.020

Target Compounds	Groundwater Effluent Limitations (Class GA)	GW1			
		Conc	Q	RL	MDL
Pesticides (µg/L)					
4,4'-DDD	0.3	ND		0.010	0.005
4,4'-DDE	0.2	ND		0.010	0.005
4,4'-DDT	0.2	ND		0.010	0.005
Aldrin	ND	ND		0.010	0.005
alpha-BHC	0.01	ND		0.010	0.005
alpha-Chlordane	NS	ND		0.010	0.005
beta-BHC	0.04	ND		0.010	0.005
Chlordane (alpha and gamma)	0.05	ND		0.010	0.005
delta-BHC	0.04	ND		0.010	0.005
Dieldrin	0.004	ND		0.010	0.005
Endosulfan (I and II)	NS	ND		0.010	0.005
Endosulfan I	NS	ND		0.010	0.005
Endosulfan II	NS	ND		0.010	0.005
Endosulfan sulfate	NS	ND		0.010	0.005
Endrin	ND	ND		0.010	0.005
Endrin aldehyde	5	ND		0.010	0.005
Endrin ketone	5	ND		0.010	0.005
gamma-BHC (Lindane)	0.05	ND		0.010	0.005
gamma-Chlordane	NS	ND		0.010	0.005
Heptachlor	0.04	ND		0.010	0.005
Heptachlor epoxide	0.03	ND		0.010	0.005
Methoxychlor	35	ND		0.010	0.005
Toxaphene	0.06	ND		0.125	0.060

Results in Blue Highlight displays exceedance above the Groundwater Effluent Limitations

NS = No Standard Available

~ = Sample not analyzed for

ND = Analyzed for but Not Detected at the MDL

J = Concentration detected at a value below the RL and above the MDL for target compounds.

For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.

C = Common Laboratory and/or Bottle Contaminant.

D = The compound was reported from the Diluted analysis

X = Samples analyzed for total and dissolved metals differ at <= 20% RPD.

Table 3 - Soil Vapor Results
Surf Ave, Block 7061 & 7062
Coney Island, New York 11224
Hillmann Consulting, LLC
Project #: G6-2368

Sampling Date: 5/30/18

SV3 and SV4 were not installed at the property and are associated with an investigation of a neighboring property. Please refer to 2018 Hillmann Phase II report for more information.

Target Compound	SV1 Block 7062		SV2 Block 7062		SV3 Block 7061		SV4 Block 7061	
	D		D				D	
Acetone		76 4.8		130 4.8		34 0.48		150 4.8
Benzene	D	8.0 6.4		9.7 0.64		6.0 0.64		30 0.64
Bromodichloromethane		ND 13		ND 1.3		ND 1.3		ND 1.3
Bromoform		ND 21		ND 2.1		ND 2.1		ND 2.1
Bromomethane		ND 7.8		ND 0.78		ND 0.78		ND 0.78
1,3-Butadiene		ND 4.4		ND 0.44		ND 0.44		ND 0.44
Chlorobenzene		ND 9.2		ND 0.92		ND 0.92		ND 0.92
Chloroethane		ND 5.3		ND 0.53		ND 0.53		ND 0.53
Chloroform	D	12 9.8		11 0.98		1.1 0.98		ND 0.98
Chloromethane		ND 4.1		ND 0.41		ND 0.41		ND 0.41
Carbon disulfide	D	17 6.2		2.7 0.62		2.3 0.62		4.7 0.62
Carbon tetrachloride		ND 2.5		ND 0.25		ND 0.25		ND 0.25
Cyclohexane		ND 6.9		1.5 0.69		2.3 0.69		4.5 0.69
Dibromochloromethane		ND 17		ND 1.7		ND 1.7		ND 1.7
1,2-Dibromoethane		ND 15		ND 1.5		ND 1.5		ND 1.5
1,2-Dichlorobenzene		ND 12		ND 1.2		ND 1.2		ND 1.2
1,3-Dichlorobenzene		ND 12		ND 1.2		ND 1.2		ND 1.2
1,4-Dichlorobenzene		ND 12		ND 1.2		ND 1.2		ND 1.2
Dichlorodifluoromethane		ND 9.9		ND 0.99		ND 0.99		4.6 0.99
1,1-Dichloroethane		ND 8.1		ND 0.81		ND 0.81		ND 0.81
1,2-Dichloroethane		ND 8.1		ND 0.81		ND 0.81		ND 0.81
1,1-Dichloroethene		ND 7.9		ND 0.79		ND 0.79		ND 0.79
1,2-Dichloroethene (cis)	D	32 7.9		ND 0.79		ND 0.79		ND 0.79
1,2-Dichloroethene (trans)		ND 7.9		ND 0.79		ND 0.79		ND 0.79
1,2-Dichloropropane		ND 9.2		ND 0.92		ND 0.92		ND 0.92
1,3-Dichloropropane (cis)		ND 9.1		ND 0.91		ND 0.91		ND 0.91
1,3-Dichloropropane (trans)		ND 9.1		ND 0.91		ND 0.91		ND 0.91
1,3-Dichloropropene - TOTAL		ND 9.1		ND 0.91		ND 0.91		ND 0.91
1,2-Dichlorotetrafluoroethane		ND 14		ND 1.4		ND 1.4		3.8 1.4
1,4-Dioxane		ND 7.2		ND 0.72		ND 0.72		ND 0.72
Ethylbenzene	D	11 8.7		17 0.87		20 0.87		22 0.87
n-Heptane	D	12 8.2		11 0.82		11 0.82		42 0.82
1,3-Hexachlorobutadiene		ND 21		ND 2.1		ND 2.1		ND 2.1
n-Hexane	D	17 7.1		7.9 0.71		12 0.71		63 0.71
Methylene chloride	D	21 7.0		ND 0.70		26 0.70		ND 0.70
Methyl ethyl ketone	D	16 5.9		59 0.59		16 0.59		50 0.59
Methyl isobutyl ketone		ND 8.2		4.6 0.82		1.2 0.82		8.8 0.82
Methyl tert-butyl ether		ND 7.2		ND 0.72		ND 0.72		3.5 0.72
Styrene		ND 8.5		2.1 0.85		1.6 0.85		1.8 0.85
Tert-butyl alcohol	D	7.2 6.1		25 0.61		3.2 0.61		18 0.61
1,1,2,2-Tetrachloroethane		ND 14		ND 1.4		ND 1.4		ND 1.4
Tetrachloroethene	D	27000 136		13 1.4		140 1.4		9.0 1.4
Toluene	D	50 7.5		69 0.75		62 0.75		100 0.75
1,2,4-Trichlorobenzene		ND 15		ND 1.5		ND 1.5		ND 1.5
1,1,1-Trichloroethane	D	12 11		5.8 1.1		1.9 1.1		ND 1.1
1,1,2-Trichloroethane		ND 11		ND 1.1		ND 1.1		ND 1.1
Trichloroethene	D	620 2.5		0.40 0.25		ND 0.25		0.39 0.25
Trichlorofluoromethane		ND 11		190 1.1		4.5 1.1		17 1.1
1,1,2-Trichloro-1,2,2-trifluoroethane		ND 15		ND 1.5		ND 1.5		ND 1.5
1,2,4-Trimethylbenzene	D	48 9.8		49 0.98		63 0.98		57 0.98
1,3,5-Trimethylbenzene	D	13 9.8		17 0.98		22 0.98		20 0.98
2,2,4-Trimethylpentane		ND 9.3		2.5 0.93		3.0 0.93		140 0.93
Vinyl bromide		ND 8.7		ND 0.87		ND 0.87		ND 0.87
Vinyl chloride		ND 5.1		ND 0.51		ND 0.51		ND 0.51
Xylenes (m&p)	D	64 8.7		88 0.87		98 0.87		110 0.87
Xylenes (o)	D	18 8.7		28 0.87		33 0.87		36 0.87
Xylenes - TOTAL	D	82 8.7		116 0.87		131 0.87		146 0.87