TABLES

Table 1
Sample Collection Summary
Remedial Investigation Report

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Block ID	Soil Boring ID	Sample ID	Depth or Screened Interval (feet bgs)	Sampling Rationale	Date Collected	Analyses
Blocks 1826/1827 (E)	E-SB101	E-SB101_0-2	0 to 2	Upper two feet	9/9/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		E-SB101_6-8	6 to 8	Greatest degree of impacts	9/9/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		E-SB101_11-12	11 to 12	Clean interval immediately below impacts	9/9/2021	
	E-SB102	E-SB102_0-2	0 to 2	Upper two feet	9/10/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		E-SB102_6-8	6 to 8	Groundwater interface	9/10/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		E-SB102_10-12	10 to 12	Clean interval immediately below impacts	9/10/2021	
	E-SB103	E-SB103_0-2	0 to 2	Upper two feet	9/10/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		E-SB103_6-8	6 to 8	Greatest degree of impacts	9/10/2021	
		E-SB103_12-14	12 to 14	Clean interval immediately below impacts	9/10/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
	E-SB104	E-SB104_0-2	0 to 2	Upper two feet	9/9/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		E-SB104_4-6	4 to 6	Greatest degree of impacts	9/9/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		E-SB104_11-12	11 to12	Clean interval immediately below impacts	9/9/2021	
	E-SB105	E-SB105_0-2	0 to 2	Upper two feet	9/13/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		E-SB105_6-8	6 to 8	Greatest degree of impacts	9/13/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		E-SB105_10-12	10 to 12	Clean interval immediately below impacts	9/13/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
	E-SB106	E-SB106_0-2	0 to 2	Upper two feet	9/13/2021 & 9/16/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		E-SB106_6-8	6 to 8	Greatest degree of impacts	9/13/2021	
		E-SB106_12-14	12 to 14	Clean interval immediately below impacts	9/13/2021	
	E-SB107	E-SB107_0-2	0 to 2	Upper two feet	9/13/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		E-SB107_6-8	6 to 8	Greatest degree of impacts	9/13/2021	
		E-SB107_11-12	11 to 12	Clean interval immediately below impacts	9/13/2021	

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NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Block ID	Soil Boring ID	Sample ID	Depth or Screened Interval (feet bgs)	Sampling Rationale	Date Collected	Analyses
Blocks 1826/1827 (E)	E-SB108	E-SB108_0-2	0 to 2	Upper two feet	9/8/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		E-SB108_7.5-8.5	7.5 to 8.5	Groundwater interface	9/8/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		E-SB108_11-12	11 to 12	Clean interval immediately below impacts	9/8/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
	E-SB109	E-SB109_7-8	7 to 8	Greatest degree of impacts	9/10/2021	VOCs, SVOCs
		E-SB109_11-12	11 to 12	Clean interval immediately below impacts	9/10/2021	
	E-EP101	E-EP101_0-2	0 to 2	Upper two feet	9/10/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		E-EP101_6-8	6 to 8	Greatest degree of impacts	9/10/2021	
		E-EP101_13-14	13 to 14	Clean interval immediately below impacts	9/13/2021	
	E-EP102	E-EP102_0-2	0 to 2	Upper two feet	9/10/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		E-EP102_5-7	5 to 7	Groundwater interface	9/10/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		E-EP102_9-11	9 to 11	Clean interval immediately below impacts	9/10/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
	E-EP109	E-EP109_0-2	0 to 2	Upper two feet	9/13/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		E-EP109_6-8	6 to 8	Greatest degree of impacts	9/13/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		E-EP109_10-12	10 to 12	Clean interval immediately below impacts	9/13/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
	E-EP110	E-EP110_7-8	7 to 8	Greatest degree of impacts	9/13/2021	VOCs and SVOCs
	E-EP115	E-EP115_6.5-7.5	6.5 to 7.5	Greatest degree of impacts	9/9/2021	VOCs, SVOC, Petroleum ID
		E-EP115_15-16	15 to 16	Immediately below impacts	9/9/2021	VOCs and SVOCs
	E-EP116	E-EP116_6-8	6 to 8	Greatest degree of impacts	9/14/2021	VOCs and SVOCs
	E-EP117	E-EP117_6-8	6 to 8	Greatest degree of impacts	9/14/2021	VOCs and SVOCs
	E-EP118	E-EP118_6-8	6 to 8	Greatest degree of impacts	9/14/2021	VOCs and SVOCs
		E-EP118_11-12	11 to 12	Clean interval immediately below impacts	9/14/2021	VOCs and SVOCs
	E-EP119	E-EP119_6-8	6 to 8	Greatest degree of impacts	9/14/2021	VOCs and SVOCs
		E-EP119_11-12	11 to 12	Clean interval immediately below impacts	9/14/2021	VOCs and SVOCs
	E-EP120	E-EP120_6-8	6 to 8	Greatest degree of impacts	9/14/2021	VOCs and SVOCs
		E-EP120_11-12	11 to 12	Clean interval immediately below impacts	9/14/2021	VOCs and SVOCs

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Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Block ID	Soil Boring ID	Sample ID	Depth or Screened Interval (feet bgs)	Sampling Rationale	Sample Date	Analyses
Block 1825 (F)	F-SB101	F-SB101_0-2	0 to 2	Upper two feet	9/16/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		F-SB101_6-8	6 to 8	Greatest degree of impacts	9/16/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		F-SB101_10-12	10 to 12	Clean interval immediately below impacts	9/16/2021	
	F-SB102	F-SB102_0-2	0 to 2	Upper two feet	9/16/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		F-SB102_5.5-7.5	5.5 to 7.5	Groundwater interface	9/16/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		F-SB102_12-14	12 to 14	Clean interval immediately below impacts	9/16/2021	
	F-SB103	F-SB103_0-2	0 to 2	Upper two feet	10/4/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		F-SB103_6-8	6 to 8	Greatest degree of impacts	10/4/2021	
		F-SB103_9-11	9 to 11	Clean interval immediately below impacts	10/4/2021	
	F-SB104	F-SB104_0-2	0 to 2	Upper two feet	9/21/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		F-SB104_6-8	6 to 8	Greatest degree of impacts	9/21/2021	
		F-SB104_10-12	10 to 12	Clean interval immediately below impacts	9/21/2021	
	F-SB105	F-SB105_0-2	0 to 2	Upper two feet	9/16/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		F-SB105_3.5-5.5	3.5 to 5.5	Groundwater interface	9/16/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		F-SB105_10-12	10 to 12	Clean interval immediately below impacts	9/16/2021	
	F-SB106	F-SB106_0-2	0 to 2	Upper two feet	9/17/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide+hexavalent chromium), PFAS, 1,4-Dioxane
		F-SB106_6-8	6 to 8	Greatest degree of impacts	9/17/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		F-SB106_14-16	14 to 16	Clean interval immediately below impacts	9/17/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide+hexavalent chromium), PFAS, 1,4-Dioxane
	F-SB107	F-SB107_0-2	0 to 2	Upper two feet	9/22/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide+hexavalent chromium), PFAS, 1,4-Dioxane
		F-SB107_6-8	6 to 8	Greatest degree of impacts	9/22/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		F-SB107_10-12	10 to 12	Clean interval immediately below impacts	9/22/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide+hexavalent chromium), PFAS, 1,4-Dioxane
	F-SB108	F-SB108_0-2	0 to 2	Upper two feet	9/22/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		F-SB108_6-8	6 to 8	Greatest degree of impacts	9/22/2021	
		F-SB108_10-12	10 to 12	Clean interval immediately below impacts	9/22/2021	

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Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Block ID	Soil Boring ID	Sample ID	Depth or Screened Interval (feet bgs)	Sampling Rationale	Sample Date	Analyses
Block 1825 (F)	F-SB109	F-SB109_0-2	0 to 2	Upper two feet	9/17/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		F-SB109_6-8	6 to 8	Greatest degree of impacts	9/17/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		F-SB109_10-12	10 to 12	Clean interval immediately below impacts	9/17/2021	
	F-SB110	F-SB110_0-2	0 to 2	Upper two feet	9/9/201	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		F-SB110_6.5-8	6.5 to 8	Greatest degree of impacts	9/9/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		F-SB110_10-11	10 to 11	Clean interval immediately below impacts	9/9/2021	
	F-SB111	F-SB111_0-2	0 to 2	Upper two feet	9/17/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		F-SB111_5-7	5 to 7	Groundwater interface	9/17/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
	F-SB112	F-SB112_0-2	0 to 2	Upper two feet	9/21/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		F-SB112_9-11	9 to 11	Greatest degree of impacts	9/21/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		F-SB112_12-14	12 to 14	Clean interval immediately below impacts	9/21/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
	F-SB113	F-SB113_0-2	0 to 2	Upper two feet	10/4/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide+hexavalent chromium), PFAS, 1,4-Dioxane
		F-SB113_3-5	3 to 5	Greatest degree of impacts	10/4/2021	
		F-SB113_9-11	9 to 11	Clean interval immediately below impacts	10/4/2021	
	F-SB114	F-SB114_0-2	0 to 2	Upper two feet	9/16/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide+hexavalent chromium), PFAS, 1,4-Dioxane
		F-SB114_6-8	6 to 8	Greatest degree of impacts	9/16/2021	
		F-SB114_10-12	10 to 12	Clean interval immediately below impacts	9/16/2021	
	F-SB115	F-SB115_0-2	0 to 2	Upper two feet	9/20/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide+hexavalent chromium), PFAS, 1,4-Dioxane
		F-SB115_6-8	6 to 8	Groundwater interface or greatest degree of impacts	9/20/2021	
		F-SB115_10-12	10 to 12	Clean interval immediately below impacts	9/20/2021	
	F-SB116	F-SB116_0-2	0 to 2	Upper two feet	9/20/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide+hexavalent chromium), PFAS, 1,4-Dioxane
		F-SB116_5-7	5 to 7	Greatest degree of impacts	9/20/2021	
		F-SB116_10-12	10 to 12	Clean interval immediately below impacts	9/20/2021	

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Block ID	Soil Boring ID	Sample ID	Depth or Screened Interval (feet bgs)	Sampling Rationale	Sample Date	Analyses
Block 1825 (F)	F-SB117	F-SB117_0-2	0 to 2	Upper two feet	9/20/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide+hexavalent chromium), PFAS, 1,4-Dioxane
		F-SB117_6-8	6 to 8	Greatest degree of impacts	9/20/2021	
		F-SB117_10-12	10 to 12	Clean interval immediately below impacts	9/20/2021	
	F-SB118	F-SB118_0-2	0 to 2	Upper two feet	9/17/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide+hexavalent chromium), PFAS, 1,4-Dioxane
		F-SB118_6-8	6 to 8	Greatest degree of impacts	9/17/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		F-SB118_9-11	9 to 11	Clean interval immediately below impacts	9/17/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide+hexavalent chromium), PFAS, 1,4-Dioxane
	F-SB119	F-SB119_0-2	0 to 2	Upper two feet	10/4/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		F-SB119_5-7	5 to 7	Greatest degree of impacts	10/4/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide+hexavalent chromium), PFAS, 1,4-Dioxane
		F-SB119_9.5-11.5	9.5 to 11.5	Clean interval immediately below impacts	10/4/2021	
	F-SB120	F-SB120_0-2	0 to 2	Upper two feet	9/17/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide+hexavalent chromium), PFAS, 1,4-Dioxane
		F-SB120_6-8	6 to 8	Greatest degree of impacts	9/17/2021	
		F-SB120_10-12	10 to 12	Clean interval immediately below impacts	9/17/2021	
	F-SB121	F-SB121_0-2	0 to 2	Upper two feet	9/17/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide+hexavalent chromium), PFAS, 1,4-Dioxane
		F-SB121_5-7	5 to 7	Groundwater interface	9/17/2021	
	F-SB122	F-SB122_0-2	0 to 2	Upper two feet	9/20/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		F-SB122_6-8	6 to 8	Greatest degree of impacts	9/20/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide+hexavalent chromium), PFAS, 1,4-Dioxane
		F-SB122_9-11	9 to 11	Clean interval immediately below impacts	9/20/2021	
	F-SB123	F-SB123_0-2	0 to 2	Upper two feet	10/4/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide+hexavalent chromium), PFAS, 1,4-Dioxane
		F-SB123_4-6	4 to 6	Groundwater interface	10/4/2021	
	F-EP101	F-EP101_0-2	0 to 2	Upper two feet	9/16/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide+hexavalent chromium), PFAS, 1,4-Dioxane
		F-EP101_6-8	6 to 8	Greatest degree of impacts	9/16/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		F-EP101_9-11	9 to 11	Clean interval immediately below impacts	9/16/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide+hexavalent chromium), PFAS, 1,4-Dioxane
	F-EP102	F-EP102_0-2	0 to 2	Upper two feet	9/16/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide+hexavalent chromium), PFAS, 1,4-Dioxane
		F-EP102_6-8	6 to 8	Greatest degree of impacts	9/16/2021	
		F-EP102_10-12	10 to 12	Clean interval immediately below impacts	9/16/2021	

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Langan Project No. 170197601

Block ID	Soil Boring ID	Sample ID	Depth or Screened Interval (feet bgs)	Sampling Rationale	Sample Date	Analyses
Block 1825 (F)	F-EP103	F-EP103_0-2	0 to 2	Upper two feet	9/20/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide+hexavalent chromium), PFAS, 1,4-Dioxane
		F-EP103_7-9	7 to 9	Greatest degree of impacts	9/20/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		F-EP103_10-12	10 to 12	Clean interval immediately below impacts	9/20/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide+hexavalent chromium), PFAS, 1,4-Dioxane
	F-EP104	F-EP104_0-2	0 to 2	Upper two feet	10/4/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide+hexavalent chromium), PFAS, 1,4-Dioxane
		F-EP104_6-8	6 to 8	Greatest degree of impacts	10/4/2021	
		F-EP104_10-12	10 to 12	Clean interval immediately below impacts	10/4/2021	
	F-EP105	F-EP105_0-2	0 to 2	Upper two feet	9/16/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide+hexavalent chromium), PFAS, 1,4-Dioxane
		F-EP105_6-8	6 to 8	Groundwater interface	9/16/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		F-EP105_10-12	10 to 12	Clean interval immediately below impacts	9/16/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide+hexavalent chromium), PFAS, 1,4-Dioxane
	F-EP106	F-EP106_0-2	0 to 2	Upper two feet	9/17/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide+hexavalent chromium), PFAS, 1,4-Dioxane
		F-EP106_4-6	4 to 6	Groundwater interface	9/17/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
	F-EP107	F-EP107_0-2	0 to 2	Upper two feet	9/21/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide+hexavalent chromium), PFAS, 1,4-Dioxane
		F-EP107_6-8	6 to 8	Groundwater interface	9/21/2021	
		F-EP107_9-11	9 to 11	Clean interval immediately below impacts	9/21/2021	
	F-EP109	F-EP109_0-2	0 to 2	Upper two feet	9/22/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide+hexavalent chromium), PFAS, 1,4-Dioxane
		F-EP109_6-8	6 to 8	Greatest degree of impacts	9/22/2021	
		F-EP109_9-11	9 to 11	Clean interval immediately below impacts	9/22/2021	
	F-EP116	F-EP116_0-2	0 to 2	Greatest degree of impacts	9/20/2021	VOCs, SVOCs
		F-EP116_9-11	9 to 11	Clean interval immediately below impacts	9/20/2021	VOCs, SVOCs
	F-EP130	F-EP130_3-5	3 to 5	Greatest degree of impacts	9/21/2021	VOCs, SVOCs
		F-EP130_9-11	9 to 11	Clean interval immediately below impacts	9/21/2021	VOCs, SVOCs
	F-EP131	F-EP131_0-2	0 to 2	Greatest degree of impacts	9/17/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide+hexavalent chromium), PFAS, 1,4-Dioxane
		F-EP131_4-6	4 to 6	Greatest degree of impacts	9/17/2021	
		F-EP131_12-14	12 to 14	Clean interval immediately below impacts	9/21/2021	

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Sample Collection Summary
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Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Block ID	Soil Boring ID	Sample ID	Depth or Screened Interval (feet bgs)	Sampling Rationale	Sample Date	Analyses
Block 1824 (G)	G-SB101	G-SB101_0-2	0 to 2	Upper two feet	9/23/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		G-SB101_5-7	5 to 7	Greatest degree of impacts	9/23/2021	
		G-SB101_11-13	11 to 13	Clean interval immediately below impacts	9/23/2021	
	G-SB102	G-SB102_0-2	0 to 2	Upper two feet	9/23/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		G-SB102_6-8	6 to 8	Greatest degree of impacts	9/23/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		G-SB102_10-12	10 to 12	Clean interval immediately below impacts	9/23/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
	G-SB103	G-SB103_0-2	0 to 2	Upper two feet	9/30/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		G-SB103_9-11	9 to 11	Greatest degree of impacts	9/30/2021	
		G-SB103_11-12	11 to 12	Clean interval immediately below impacts	9/30/2021	
	G-SB104	G-SB104_0-2	0 to 2	Upper two feet	9/30/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		G-SB104_6-8	6 to 8	Greatest degree of impacts	9/30/2021	
		G-SB104_10-12	10 to 12	Clean interval immediately below impacts	9/30/2021	
	G-SB105	G-SB105_0-2	0 to 2	Upper two feet	9/21/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		G-SB105_6-8	6 to 8	Greatest degree of impacts	9/21/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		G-SB105_10-12	10 to 12	Clean interval immediately below impacts	9/21/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
	G-SB106	G-SB106_0-2	0 to 2	Upper two feet	9/22/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		G-SB106_7-9	7 to 9	Greatest degree of impacts	9/22/2021	
		G-SB106_10-12	10 to 12	Clean interval immediately below impacts	9/22/2021	
	G-SB107	G-SB107_0-2	0 to 2	Upper two feet	9/21/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		G-SB107_7-9	7 to 9	Greatest degree of impacts	9/21/2021	
		G-SB107_10-12	10 to 12	Clean interval immediately below impacts	9/21/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
	G-SB108	G-SB108_0-2	0 to 2	Upper two feet	9/30/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		G-SB108_6-8	6 to 8	Greatest degree of impacts	9/30/2021	
		G-SB108_9-11	9 to 11	Clean interval immediately below impacts	9/30/2021	

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Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Block ID	Soil Boring ID	Sample ID	Depth or Screened Interval (feet bgs)	Sampling Rationale	Sample Date	Analyses
Block 1824 (G)	G-SB109	G-SB109_0-2	0 to 2	Upper two feet	10/1/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		G-SB109_5-7	5 to 7	Groundwater interface	10/1/2021	
	G-SB110	G-SB110_0-2	0 to 2	Upper two feet	10/1/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		G-SB110_6-8	6 to 8	Groundwater interface	10/1/2021	
	G-SB111	G-SB111_0-2	0 to 2	Upper two feet	9/23/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		G-SB111_5-7	4 to 6	Greatest degree of impacts	9/23/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		G-SB111_9-11	9 to 11	Clean interval immediately below impacts	9/23/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
	G-SB112	G-SB112_0-2	0 to 2	Upper two feet	9/23/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		G-SB112_4-6	4 to 6	Greatest degree of impacts	9/23/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		G-SB112_9-11	9 to 11	Clean interval immediately below impacts	9/23/2021	
	G-SB113	G-SB113_0-2	0 to 2	Upper two feet	9/23/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		G-SB113_4-6	4 to 6	Greatest degree of impacts	9/23/2021	
		G-SB113_10-12	10 to 12	Clean interval immediately below impacts	9/23/2021	
	G-SB114	G-SB114_0-2	0 to 2	Upper two feet	9/30/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		G-SB114_6.5-8.5	6.5 to 8.5	Groundwater interface	9/30/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
	G-SB115	G-SB115_0-2	0 to 2	Upper two feet	9/30/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		G-SB115_5-7	5 to 7	Groundwater interface	9/30/2021	
	G-SB116	G-SB116_0-2	0 to 2	Upper two feet	10/1/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		G-SB116_8-10	8 to 10	Groundwater interface	10/1/2021	
	G-SB117	G-SB117_0-2	0 to 2	Upper two feet	9/30/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		G-SB117_7-9	7 to 9	Greatest degree of impacts	9/30/2021	
		G-SB117_10-12	10 to 12	Clean interval immediately below impacts	9/30/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane

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Sample Collection Summary
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Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Block ID	Soil Boring ID	Sample ID	Depth or Screened Interval (feet bgs)	Sampling Rationale	Sample Date	Analyses
Block 1824 (G)	G-SB118	G-SB118_0-2	0 to 2	Upper two feet	10/1/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		G-SB118_6-8	6 to 8	Groundwater interface	10/1/2021	
	G-SB119	G-SB119_0-2	0 to 2	Upper two feet	10/8/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		G-SB119_6-8	6 to 8	Greatest degree of impacts	10/8/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		G-SB119_10-12	10 to 12	Clean interval immediately below impacts	10/8/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
	G-EP101	G-EP101_0-2	0 to 2	Upper two feet	9/22/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		G-EP101_5.5-7.5	5.5 to 7.5	Greatest degree of impacts	9/22/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		G-EP101_10-12	10 to 12	Clean interval immediately below impacts	9/22/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
	G-EP102	G-EP102_0-2	0 to 2	Upper two feet	9/22/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		G-EP102_5.5-7.5	5.5 to 7.5	Greatest degree of impacts	9/22/2021	
		G-EP102_10-12	10 to 12	Clean interval immediately below impacts	9/22/2021	
	G-EP103	G-EP103_0-2	0 to 2	Upper two feet	9/23/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		G-EP103_5-7	5 to 7	Groundwater interface or greatest degree of impacts	9/23/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		G-EP103_10.5-12	10.5 to 12	Clean interval immediately below impacts	9/23/2021	
	G-EP107	G-EP107_6-8	6 to 8	Greatest degree of impacts	9/23/2021	VOCs, SVOCs
		G-EP107_10-12	10 to 12	Interval Below Impacts	9/23/2021	VOCs, SVOCs
	G-EP114	G-EP114_6-8	6 to 8	Greatest degree of impacts	9/22/2021	VOCs, SVOCs
		G-EP114_10-12	10 to 12	Interval Below Impacts	9/22/2021	VOCs, SVOCs
		G-EP120_7.5-9.5	7.5 to 9.5	Greatest degree of impacts	10/8/2021	VOCs, SVOCs, Petroleum ID
		G-EP120_10-12	10 to 12	Clean interval immediately below impacts	10/8/2021	VOCs, SVOCs
	G-EP122	G-EP122_0-2	0 to 2	Upper two feet	10/8/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		G-EP122_5-7	5 to 7	Greatest degree of impacts	10/8/2021	
		G-EP122_10-12	10 to 12	Clean interval immediately below impacts	10/8/2021	

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Sample Collection Summary
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Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Block ID	Soil Boring ID	Sample ID	Depth or Screened Interval (feet bgs)	Sampling Rationale	Date Sample Collected	Analyses
Block 1823 (H)	H-SB101	H-SB101_0-2	0 to 2	Upper two feet	10/7/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		H-SB101_7-9	7 to 9	Groundwater interface	10/7/2021	
	H-SB102	H-SB102_0-2	0 to 2	Upper two feet	10/5/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		H-SB102_7.5-9.5	7.5 to 9.5	Greatest degree of impacts	10/5/2021	
		H-SB102_10-12	10 to 12	Clean interval immediately below impacts	10/5/2021	
	H-SB103	H-SB103_0-2	0 to 2	Upper two feet	10/5/2021 & 10/6/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		H-SB103_5.5-7.5	5.5 to 7.5	Groundwater interface	10/5/2021 & 10/6/2021	
	H-SB104	H-SB104_0-2	0 to 2	Upper two feet	10/5/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		H-SB104_7-9	7 to 9	Greatest degree of impacts	10/5/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		H-SB104_10-12	10 to 12	Clean interval immediately below impacts	10/5/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
	H-SB105	H-SB105_0-2	0 to 2	Upper two feet	10/5/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		H-SB105_6-8	6 to 8	Groundwater interface	10/5/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
	H-SB106	H-SB106_0-2	0 to 2	Upper two feet	10/6/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		H-SB106_7-9	7 to 9	Greatest degree of impacts	10/6/2021	
		H-SB106_12-14	12 to 14	Clean interval immediately below impacts	10/6/2021	
	H-SB107	H-SB107_0-2	0 to 2	Upper two feet	10/5/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		H-SB107_6-8	6 to 8	Groundwater interface	10/5/2021	
	H-SB108	H-SB108_0-2	0 to 2	Upper two feet	10/6/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		H-SB108_6-8	6 to 8	Groundwater interface	10/6/2021	
	H-SB109	H-SB109_0-2	0 to 2	Upper two feet	10/6/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		H-SB109_5-7	5 to 7	Groundwater interface	10/6/2021	

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Sample Collection Summary
Remedial Investigation Report

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Block ID	Soil Boring ID	Sample ID	Depth or Screened Interval (feet bgs)	Sampling Rationale	Date Sample Collected	Analyses
Block 1823 (H)	H-SB110	H-SB110_0-2	0 to 2	Upper two feet	10/7/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		H-SB110_7-9	7 to 9	Groundwater interface	10/7/2021	
	H-SB111	H-SB111_0-2	0 to 2	Upper two feet	10/7/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		H-SB111_5-7	5 to 7	Groundwater interface	10/7/2021	
	H-SB112	H-SB112_0-2	0 to 2	Upper two feet	10/7/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		H-SB112_7-9	7 to 9	Greatest degree of impacts	10/7/2021	
		H-SB112_10-12	10 to 12	Clean interval immediately below impacts	10/7/2021	
	H-SB113	H-SB113_0-2	0 to 2	Upper two feet	10/7/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		H-SB113_6-8	6 to 8	Greatest degree of impacts	10/7/2021	
		H-SB113_10-12	10 to 12	Clean interval immediately below impacts	10/7/2021	
	H-SB114	H-SB114_0-2	0 to 2	Upper two feet	10/7/201	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		H-SB114_7-9	7 to 9	Groundwater interface	10/7/2021	
	H-SB115	H-SB115_0-2	0 to 2	Upper two feet	10/5/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		H-SB115_6-8	6 to 8	Greatest degree of impacts	10/5/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		H-SB115_10-12	10 to 12	Clean interval immediately below impacts	10/5/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
	H-SB115SW	H-SB115SW_6-8	6 to 8	Greatest degree of impacts	10/6/2021	VOCs, SVOCs
	H-SB115SE	H-SB115SE_6-8	6 to 8	Greatest degree of impacts	10/6/2021	VOCs, SVOCs
	H-SB115SE2	H-SB115SE2_6-8	6 to 8	Greatest degree of impacts	10/6/2021	VOCs, SVOCs, Petroleum ID
	H-SB115SE3	H-SB115SE3_7-9	7 to 9	Greatest degree of impacts	10/6/2021	VOCs, SVOCs
	H-SB115SE4	H-SB115SE4_6-8	6 to 8	Greatest degree of impacts	10/6/2021	VOCs, SVOCs
	H-SB116	H-SB116_0-2	0 to 2	Upper two feet	10/5/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		H-SB116_5-7	5 to 7	Groundwater interface	10/5/2021	

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Sample Collection Summary
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Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Block ID	Soil Boring ID	Sample ID	Depth or Screened Interval (feet bgs)	Sampling Rationale	Date Sample Collected	Analyses
Block 1823 (H)	H-SB117	H-SB117_0-2	0 to 2	Upper two feet	10/5/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		H-SB117_11-12	11 to 12	Greatest degree of impacts	10/5/2021	
		H-SB117_13-15	13 to 15	Clean interval immediately below impacts	10/5/2021	
	H-EP101	H-EP101_0-2	0 to 2	Upper two feet	10/7/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		H-EP101_2-4	2 to 4	Greatest degree of impacts	10/7/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		H-EP101_6-8	6 to 8	Clean interval immediately below impacts	10/7/2021	
	H-EP102	H-EP102_0-2	0 to 2	Upper two feet	10/6/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		H-EP102_6.5-8.5	6.5 to 8.5	Groundwater interface	10/6/2021	
	H-EP107	H-EP107_2-4	2 to 4	Greatest degree of impacts	10/7/2021	VOCs, SVOCs
	H-EP109	H-EP109_7-8	7 to 8	Greatest degree of impacts	10/5/2021	VOCs, SVOCs
		H-EP109_10-11	10 to 11	Interval below observed impacts	10/5/2021	VOCs, SVOCs
	H-EP111	H-EP111_1.5-2.5	1.5 to 2.5	Greatest degree of impacts	10/5/2021	VOCs, SVOCs
		H-EP111_10-11	10 to 11	Interval below observed impacts	10/5/2021	VOCs, SVOCs

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Sample Collection Summary
Remedial Investigation Report

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Soil Boring ID	Soil Boring ID	Sample ID	Depth or Screened Interval (feet bgs)	Sampling Rationale	Date Sample Collected	Analyses
Block 1822 (I)	I-SB101	I-SB101_0-2	0 to 2	Upper two feet	9/27/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		I-SB101_5-7	5 to 7	Greatest degree of impacts	9/27/2021	
		I-SB101_10.5-12	10.5 to 12	Clean interval immediately below impacts	9/27/2021	
	I-SB102	I-SB102_0-2	0 to 2	Upper two feet	9/28/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		I-SB102_7-9	7 to 9	Greatest degree of impacts	9/28/2021	
		I-SB102_10-12	10 to 12	Clean interval immediately below impacts	9/28/2021	
	I-SB103	I-SB103_0-2	0 to 2	Upper two feet	9/27/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		I-SB103_6-8	6 to 8	Greatest degree of impacts	9/27/2021	
		I-SB103_9-11	9 to 11	Clean interval immediately below impacts	9/27/2021	
	I-SB104	I-SB104_0-2	0 to 2	Upper two feet	9/28/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		I-SB104_5.5-7.5	5.5 to 7.5	Greatest degree of impacts	9/28/2021	
		I-SB104_9-11	9 to 11	Clean interval immediately below impacts	9/28/2021	
	I-SB105	I-SB105_0-2	0 to 2	Upper two feet	9/27/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		I-SB105_7-9	7 to 9	Greatest degree of impacts	9/27/2021	
		I-SB105_10-12	10 to 12	Clean interval immediately below impacts	9/27/2021	
	I-SB106	I-SB106_0-2	0 to 2	Upper two feet	9/28/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		I-SB106_6.5-8.5	6.5 to 8.5	Greatest degree of impacts	9/28/2021	
		I-SB106_10.5-12.5	10.5 to 12.5	Clean interval immediately below impacts	9/28/2021	
	I-SB107	I-SB107_0-2	0 to 2	Upper two feet	9/29/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		I-SB107_6-8	6 to 8	Greatest degree of impacts	9/29/2021	
		I-SB107_10-12	10 to 12	Clean interval immediately below impacts	9/29/2021	

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Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Soil Boring ID	Soil Boring ID	Sample ID	Depth or Screened Interval (feet bgs)	Sampling Rationale	Date Sample Collected	Analyses
Block 1822 (I)	I-EP101	I-EP101_0-2	0 to 2	Upper two feet	9/29/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		I-EP101_7-9	7 to 9	Greatest degree of impacts	9/29/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		I-EP101_10-12	10 to 12	Clean interval immediately below impacts	9/29/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
	I-EP102	I-EP102_0-2	0 to 2	Upper two feet	9/29/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		I-EP102_5-7	5 to 7	Greatest degree of impacts	9/29/2021	
		I-EP102_9-11	9 to 11	Clean interval immediately below impacts	9/29/2021	
	I-EP103	I-EP103_5.5-7.5	5.5 to 7.5	Greatest degree of impacts	9/28/2021	VOCs, SVOCs
	I-EP104	I-EP104_6-8	6 to 8	Greatest degree of impacts	9/27/2021	VOCs, SVOCs
	I-EP107	I-EP107_0-2	0 to 2	Greatest degree of impacts	9/28/2021	VOCs, SVOCs
		I-EP107_9-11	9 to 11	Clean interval immediately below impacts	9/28/2021	VOCs, SVOCs
	I-EP108	I-EP108_6-8	6 to 8	Greatest degree of impacts	9/29/2021	VOCs, SVOCs
		I-EP108_9-11	9 to 11	Clean interval immediately below impacts	9/29/2021	
	I-SB106NE	I-EP106NE_6.5-8.5	6.5 to 8.5	Greatest degree of impacts	9/29/2021	VOCs, SVOCs
	I-SB106SE	I-EP106SE_6.5-8.5	6.5 to 8.5	Greatest degree of impacts	9/29/2021	VOCs, SVOCs
	I-SB106SW	I-EP106SW_6.5-8.5	6.5 to 8.5	Greatest degree of impacts	9/29/2021	VOCs, SVOCs
	I-SB106NE2	I-EP106NE2_6-8	6 to 8	Greatest degree of impacts	9/29/2021	VOCs, SVOCs, Petroleum ID
		I-EP106NE2_10-12	10 to 12	Greatest degree of impacts	9/29/2021	VOCs, SVOCs
	I-EP108E	I-EP108E_7.5-9.5	7.5 to 9.5	Greatest degree of impacts	9/29/2021	VOCs, SVOCs
	I-EP108N	I-EP108N_7.5-9.5	7.5 to 9.5	Greatest degree of impacts	9/29/2021	VOCs, SVOCs
	I-EP108W	I-EP108W_7-9	7 to 9	Greatest degree of impacts	9/29/2021	VOCs, SVOCs

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Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Block ID	Soil Boring ID	Sample ID	Depth or Screened Interval (feet bgs)	Sampling Rationale	Sample Date	Analyses
Block 1833 (J)	J-SB101	J-SB101_0-2	0 to 2	Upper two feet	9/7/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		J-SB101_9.5-10.5	9.5 to 10.5	Greatest degree of impacts	9/7/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		J-SB101_11-12	11 to 12	Clean interval immediately below impacts	9/7/2021	
	J-SB102	J-SB102_0-2	0 to 2	Upper two feet	9/7/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		J-SB102_7-8	7 to 8	Greatest degree of impacts	9/7/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		J-SB102_11-12	11 to 12	Clean interval immediately below impacts	9/7/2021	
	J-SB103	J-SB103_0-2	0 to 2	Upper two feet	9/3/2021 & 9/7/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		J-SB103_17-18	17 to 18	Greatest degree of impacts	9/3/2021	
		J-SB103_19-20	19 to 20	Clean interval immediately below impacts	9/3/2021 & 9/7/2021	
	J-EP101	J-EP101_0-2	0 to 2	Upper two feet	9/3/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		J-EP101_10-11	10 to 11	Greatest degree of impacts	9/3/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
		J-EP101_19-20	19 to 20	Clean interval immediately below impacts	9/3/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
	J-EP102	J-EP102_6-8	6 to 8	Greatest degree of impacts	10/8/2021	VOCs and SVOCs
	J-EP105	J-EP105_0-2	0 to 2	Upper two feet	9/7/2021	VOCs, SVOCs
		J-EP105_5-6	5 to 6	Greatest degree of impacts	9/7/2021	
		J-EP105_11-12	11 to 12	Clean interval immediately below impacts	9/7/2021	
	J-EP106	J-EP106_7-8	7 to 8	Greatest degree of impacts	9/3/2021	VOCs and SVOCs
		J-EP106_19-20	19 to 20	Clean interval immediately below impacts	9/3/2021	
	J-EP107	J-EP107_6-7	6 to 7	Greatest degree of impacts	9/8/2021	VOCs and SVOCs
		J-EP107_19-20	19 to 20	Clean interval immediately below impacts	9/8/2021	
	J-EP108	J-EP108_12-13	12 to 13	Greatest degree of impacts	10/28/2021	VOCs and SVOCs
	J-EP109	J-EP109_6-8	6 to 8	Greatest degree of impacts	9/3/2021	VOCs and SVOCs
	J-EP110	J-EP110_20.5-21.5	20.5 to 21.5	Clean interval immediately below impacts	10/27/2021	VOCs and SVOCs
		J-EP110_21.5-22	21.5 to 22	Clean interval immediately below impacts	10/28/2021	
	J-EP112	J-EP112_17-18	17 to 18	Greatest degree of impacts	9/8/2021	VOCs and SVOCs, Petroleum ID
		J-EP112_23-24	23 to 24	Clean interval immediately below impacts	9/8/2021	VOCs and SVOCs
	J-EP113	J-EP113_0-2	0 to 2	Upper two feet	10/8/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		J-EP113_10-12	10 to 12	Greatest degree of impacts	10/8/2021	
		J-EP113_18-20	18 to 20	Clean interval immediately below impacts	10/8/2021	
	J-EP114	J-EP114_0-2	0 to 2	Greatest degree of impacts	10/8/2021	VOCs, SVOCs
	J-EP116	J-EP116_2-4	2 to 4	Greatest degree of impacts	10/8/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane

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Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Soil Boring ID	Soil Boring ID	Sample ID	Depth or Screened Interval (feet bgs)	Sampling Rationale	Date Sample Collected	Analyses
Block 1820 (K)	K-SB101	K-SB101_0-2	0 to 2	Upper two feet	9/28/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		K-SB101_5-7	5 to 7	Groundwater interface	9/28/2021	
	K-SB102	K-SB102_0-2	0 to 2	Upper two feet	9/24/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		K-SB102_10-12	10 to 12	Groundwater interface	9/24/2021	
	K-SB103	K-SB103_0-2	0 to 2	Upper two feet	9/24/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		K-SB103_10-12	10 to 12	Groundwater interface	9/24/2021	
	K-SB104	K-SB104_0-2	0 to 2	Upper two feet	9/24/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		K-SB104_5-7	5 to 7	Greatest degree of impacts	9/24/2021	
		K-SB104_10-12	10 to 12	Clean interval immediately below impacts	9/24/2021	
	K-SB105	K-SB105_0-2	0 to 2	Upper two feet	9/27/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		K-SB105_6-8	6 to 8	Greatest degree of impacts	9/27/2021	
		K-SB105_9-11	9 to 11	Clean interval immediately below impacts	9/27/2021	
	K-SB107	K-SB107_0-2	0 to 2	Upper two feet	9/24/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		K-SB107_11-13	11 to 13	Groundwater interface	9/24/2021	
	K-EP101	K-EP101_0-2	0 to 2	Upper two feet	9/27/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		K-EP101_6-8	6 to 8	Greatest degree of impacts	9/27/2021	
		K-EP101_10-12	10 to 12	Clean interval immediately below impacts	9/27/2021	
	K-EP102	K-EP102_0-2	0 to 2	Upper two feet	9/27/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
		K-EP102_10-12	10 to 12	Groundwater interface	9/27/2021	
	K-EP104	K-EP104_0-2	0 to 2	Upper two feet	9/28/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), 1,4-Dioxane
		K-EP104_8-10	8 to 10	Groundwater interface	9/28/2021	
	K-EP105	K-EP105_1.5-2.5	1.5 to 2.5	Greatest degree of impacts	9/24/2021	VOCs, SVOCs
		K-EP105_5-6	5 to 6	Clean interval immediately below impacts	9/24/2021	

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NYSDEC BCP Site No. C241146
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Soil Boring ID	Sample ID	Depth or Screened Interval (feet bgs)	Sample Date	Parent Sample ID	Analyses
Soil Duplicates					
J-SB102	SBDUP01_090721	0 to 2	9/7/2021	J-SB102_0-2	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
E-SB107	SBDUP02_091321	0 to 2	9/13/2021	E-SB107_0-2	
F-EP101	DUP03_091621	6 to 8	9/16/2021	F-EP101_6-8	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
F-EP103	DUP04_092091	0 to 2	9/20/2021	F-EP103_0-2	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
G-EP101	DUP04_092221	0 to 2	9/22/2021	G-EP101_0-2	
G-SB111	DUP05_092321	0 to 2	9/23/2021	G-SB111_0-2	
G-EP103	DUP06_092321	0 to 2	9/23/2021	G-EP103_0-2	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane, TCLP Metals
K-SB107	DUP07_092421	0 to 2	9/24/2021	K-SB107_0-2	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
I-EP103	SBDUP09_092821	5.5 to 7.5	9/28/2021	I-EP103_5.5-7.5	VOCs SVOCs
I-SB107	DUP10_092921	0 to 2	9/29/2021	I-SB107_0-2	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
F-SB113	SODUP11_100421	0 to 2	10/4/2021	F-SB113_0-2	
F-SB119	SBDUP12_100421	0 to 2	10/4/2021	F-SB119_0-2	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-
H-SB117	DUP13_100521	0 to 2	10/5/2021	H-SB117_0-2	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
H-SB115SW	DUP14_100621	6 to 8	10/6/2021	H-SB115SW_6-8	VOCs SVOCs
H-EP102	DUP15_100621	0 to 2	10/6/2021	H-EP102_0-2	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
H-SB108	DUP16_100621	0 to 2	10/6/2021	H-SB108_0-2	
H-SB111	DUP17_100721	0 to 2	10/7/2021	H-SB111_0-2	
J-EP102	DUP18_100821	6 to 8	10/8/2021	J-EP102_6-8	VOCs SVOCs
G-EP120	DUP19_100821	7.5 to 9.5	10/8/2021	G-EP120_7.5-9.5	
G-EP120	DUP20_100821	10 to 12	10/8/2021	G-EP120_10-12	

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Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
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Soil Boring ID	Sample ID	Depth or Screened Interval (feet bgs)	Sample Date	Parent Sample ID	Analyses
Soil MS/MSD					
J-SB102	MS/MSD-J-SB102_100721	0 to 2	9/7/2021	J-SB102_0-2	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
E-SB107	MS/MSD-E-SB107_091321	0 to 2	9/13/2021	E-SB107_0-2	
F-EP101	MS/MSD-F--EP101_091621	6 to 8	9/16/2021	F-EP101_6-8	
F-SB118	MS/MSD-F-SB118_091721	9 to 11	9/17/2021	F-SB118_9-11	
F-EP103	MS/MSD-F-EP103_092021	0 to 2	9/20/2021	F-EP103_0-2	
G-EP101	MS/MSD-G-EP101_092221	0 to 2	9/22/2021	G-EP101_0-2	
G-SB111	MS/MSD-G-SB111_092321	0 to 2	9/23/2021	G-SB111_0-2	
G-EP103	MS/MSD-G-EP103_092321	0 to 2	9/23/2021	G-EP103_0-2	
K-SB107	MS/MSD-K-SB107_092421	0 to 2	9/24/2021	K-SB107_0-2	
I-EP103	MS/MSD-I-EP103_092821	5.5 to 7.5	9/28/2021	I-EP103_5.5-7.5	VOCs SVOCs
I-SB107	MS/MSD-I-SB107_092921	0 to 2	9/29/2021	I-SB107_0-2	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
F-SB113	MS/MSD-F-SB113_100421	0 to 2	10/4/2021	F-SB113_0-2	
F-SB119	MS/MSD-F-SB119_100421	0 to 2	10/4/2021	F-SB119_0-2	
H-SB117	MS/MSD-H-SB117_100521	0 to 2	10/5/2021	H-SB117_0-2	
H-SB108	MS/MSD-H-SB108	0 to 2	10/6/2021	H-SB108_0-2	
H-EP102	MS/MSD-H-EP102	0 to 2	10/6/2021	H-EP102_0-2	
H-SB115SE3	MS/MSD-H-SB115SE3_100621	7 to 9	10/6/2021	H-SB115SE3_7-9	VOCs SVOCs
H-SB111	MS/MSD-H-SB111_100721	0 to 2	10/7/2021	H-SB111_0-2	VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
J-EP102	MS/MSD-J-EP102_100821	6 to 8	10/8/2021	J-EP102_6-8	VOCs SVOCs
G-EP120	MS/MSD-G-EP120_100821	7.5 to 9.5	10/8/2021	G-EP120_7.5-9.5	
G-EP120	MS2/MSD2-G-EP120_100821	10 to 12	10/8/2021	G-EP120_10-12	

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Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
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Soil Boring ID	Sample ID	Depth or Screened Interval (feet bgs)	Sample Date	Parent Sample ID	Analyses
Soil Field Blanks					
Field Blank	SOFB01_090321	NA	9/3/2021	NA	PFAS
	SOFB02_090721		9/7/2021		VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
	SOFB03_090821		9/8/2021		PFAS
	SOFB04_090921		9/9/2021		
	SOFB05_091021		9/10/2021		
	SOFB06_091321		9/13/2021		VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
	SOFB07_091621		9/16/2021		PFAS
	SOFB08_091721		9/17/2021		VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
	SOFB09_092021		9/20/2021		PFAS
	SOFB10_092121		9/21/2021		
	SOFB11_092221		9/22/2021		VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
	SOFB12_092321		9/23/2021		
	SOFB13_092321		9/23/2021		
	SOFB14_092421		9/24/2021		
	SOFB15_092721		9/27/2021		
	SOFB16_092821		9/28/2021		PFAS
	SOFB17_092921		9/29/2021		
	SOFB18_093021		9/30/2021		
	SOFB19_100121		10/1/2021		
	SOFB20_100421		10/4/2021		VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals (including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
	SOFB21_100421		10/4/2021		
	SOFB22_100521		10/5/2021		
	SOFB23_100521		10/5/2021		
	SOFB24_100621		10/6/2021		
	SOFB25_100621		10/6/2021		
	SOFB26_100621		10/6/2021		VOCs and SVOCs
	SOFB27_100721		10/7/2021		PFAS
	SOFB28_100821		10/8/2021		VOCs and PFAS
	SOFB29_100821		10/8/2021		VOCs and SVOCs
	SOFB30_100821		10/8/2021		

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Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Soil Boring ID	Sample ID	Depth or Screened Interval (feet bgs)	Sample Date	Parent Sample ID	Analyses
Soil Trip Blanks					
Trip Blank	TB01_090321	NA	9/3/2021	NA	VOCs
	TB02_090721		9/7/2021		
	TB03_090821		9/8/2021		
	TB04_090921		9/9/2021		
	TB05_091021		9/10/2021		
	TB06_09/1321		9/13/2021		
	TB07_091421		9/14/2021		
	TB08_091621		9/16/2021		
	TB09_091721		9/17/2021		
	TB10_092021		9/20/2021		
	TB11_092121		9/21/2021		
	TB12_092221		9/22/2021		
	TB13_092321		9/23/2021		
	TB14_092321		9/23/2021		
	TB15_092421		9/24/2021		
	TB16_092721		9/27/2021		
	TB17_029221		9/29/2021		
	TB18_093021		9/30/2021		
	TB19_100121		10/1/2021		
	TB20_100421		10/4/2021		
	TB21_100521		10/5/2021		
	TB22_100621		10/6/2021		
	TB23_100721		10/7/2021		
	TB24_100821		10/8/2021		

Table 1
Sample Collection Summary
Remedial Investigation Report

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Block ID	Monitoring Well ID	Depth or Screened Interval (bgs)	Well Depth (ft)	Sample ID	Sampled Date	Analyses
Blocks 1826/1827 (E)	E-MW101	2 to 12	12	E-MW101_093021	9/30/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, TAL/TCL Metals (total and dissolved, including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
	E-MW102	2 to 12	12	E-MW102_092921	9/29/2021	
	E-MW103	2 to 12	12	E-MW103_092921	9/29/2021	Petroleum ID
	E-MW104	2 to 12	12	EMW104_092921	9/29/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, TAL/TCL Metals (total and dissolved, including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
	E-MW115	2 to 16	16	E-MW115_092921	9/29/2021	
Block 1825 (F)	F-MW101	2 to 12	12	F-MW101_093021	9/30/2021	
	F-MW102	2 to 12	12	F-MW102_093021	9/30/2021	
	F-MW103	2 to 12	12	F-MW103_101321	10/13/2021	
	F-MW104	2 to 12	12	F-MW104_100121	10/1/2021	
	F-MW105	2 to 12	12	F-MW105_100121	10/1/2021	
	F-MW106	2 to 12	12	F-MW106_100421	10/4/2021	
	F-MW107	2 to 12	12	F-MW107_093021	9/30/2021	
	F-MW108	2 to 12	12	F-MW108_093021	9/30/2021	
	F-MW109	2 to 12	12	F-MW109_100121	10/1/2021	
	F-MW110	6 to 16	16	F-MW110_093021	9/30/2021	
	F-MW111	2 to 12	12	F-MW111_100421	10/4/2021	
Block 1824 (G)	G-MW101	2 to 12	12	G-MW101_100421	10/4/2021	
	G-MW102	2 to 12	12	G-MW102_100521	10/5/2021	
	G-MW103	2 to 12	12	G-MW103_100821	10/8/2021	
	G-MW104	2 to 12	12	G-MW104_100821	10/8/2021	
	G-MW105	2 to 12	12	G-MW105_100521	10/5/2021	
	G-MW106	2 to 12	12	G-MW106_100521	10/5/2021	
	G-MW107	2 to 12	12	G-MW107_100721	10/7/2021	
	G-MW108	2 to 12	12	G-MW108_100821	10/8/2021	
	G-MW109	2 to 12	12	G-MW109_101321	10/13/2021	
	G-MW110	2 to 12	12	G-MW110_101321	10/13/2021	
Block 1823 (H)	H-MW101	2 to 12	12	H-MW101_101421	10/14/2021	
	H-MW102	2 to 12	12	H-MW102_101321	10/13/2021	
	H-MW103	2 to 12	12	H-MW103_101321	10/13/2021	
	H-MW104	2 to 12	12	H-MW104_101321	10/13/2021	
	H-MW105	2 to 12	12	H-MW105_101321	10/13/2021	
	H-MW106	2 to 12	12	H-MW106_101421	10/14/2021	
	H-MW107	2 to 12	12	H-MW107_101321	10/13/2021	
	H-MW108	2 to 12	12	H-MW108_101421	10/14/2021	
Block 1822 (I)	I-MW101	2 to 12	12	I-MW101_101121	10/11/2021	
	I-MW102	2 to 12	12	I-MW102_101121	10/11/2021	
	I-MW103	2 to 12	12	I-MW103_101121	10/11/2021	
	I-MW104	2 to 12	12	I-MW104_101121	10/11/2021	
	I-MW105	2 to 12	12	I-MW105_101121	10/11/2021	
Block 1833 (J)	J-MW101	2 to 12	12	J-MW101_101421	10/14/2021	
	J-MW102	2 to 12	12	J-MW102_101421	10/14/2021	
	J-MW112	4.5 to 19.5	21.5	-	-	N/A
	J-MW117	2 to 12	12	J-MW117_030422	3/4/2022	VOCs, SVOCs, PCBs, Pesticides, Herbicides, TAL/TCL Metals (total and dissolved, including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
	J-MW118	2 to 12	12	J-MW118_030422	3/4/2022	
Block 1820 (K)	K-MW101	5 to 15	15	K-MW101_100721	10/7/2021	
	K-MW102	5 to 18	18	K-MW102_100621	10/6/2021	
	K-MW103	5 to 18	18	K-MW103_100621	10/6/2021	
	K-MW104	5 to 18	18	K-MW104_100621	10/6/2021	
	K-MW105	5 to 18	18	K-MW105_100721	10/7/2021	

Table 1
Sample Collection Summary
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Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

QA/QC	**Groundwater Duplicates**					
	E-MW115	2 to 16	16	GWDUP01_092921	9/29/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, TAL/TCL Metals (total and dissolved, including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
	K-MW104	5 to 18	18	GWDUP02_100621	10/6/2021	
	F-MW103	2 to 12	12	GWDUP03_101321	10/13/2021	
	Groundwater MS/MSD					
	E-MW104	2 to 12	12	MS/MSD-E-MW104_092921	9/29/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, TAL/TCL Metals (total and dissolved, including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
	G-MW103	2 to 12	12	MS/MSD-G-MW103_100821	10/8/2021	
	I-MW101	2 to 12	12	MS/MSD-I-MW101_101121	10/11/2021	
	Groundwater Field Blanks					
	Field Blank	NA		GWFB01_093021	9/30/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, TAL/TCL Metals (total and dissolved, including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
				GWFB03_100121	10/1/2021	PFAS
				FB04_100421	10/4/2021	
				FB05_100521	10/5/2021	
				FB06_100621	10/6/2021	
				FB07_100721	10/7/2021	
				FB08_100821	10/8/2021	
				FB09_101121	10/11/2021	
				GWFB10_101321	10/13/2021	VOCs, SVOCs, PCBs, Pesticides, Herbicides, TAL/TCL Metals (total and dissolved, including total cyanide, hexavalent chromium), PFAS, 1,4-Dioxane
				GWFB11_101421	10/14/2021	
	Groundwater Trip Blanks					
	Trip Blank	NA		GWTB01_092921	9/29/2021	VOCs
				GWTB02_093021	9/30/2021	
				TB03_100121	10/1/2021	
				TB04_100421	10/4/2021	
				TB05_100521	10/5/2021	
				TB06_100621	10/6/2021	
				TB07_100721	10/7/2021	
				TB08_100821	10/8/2021	
				TB09_101121	10/11/2021	
				GWTB10_101321	10/13/2021	
				GWTB11_101421	10/14/2021	

Table 1
Sample Collection Summary
Remedial Investigation Report

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Block ID	Soil Vapor Point ID	Sample ID	Sample Date/Time	Sampling Depth	Analysis
Blocks 1826/1827 (E)	E-SV101	E-SV101_091521	9/15/2021	Two feet above the groundwater interface	TO-15 VOCs
	E-SV102	E-SV102_091521	9/15/2021		
	E-SV103	E-SV103_091521	9/15/2021		
	E-SV104	E-SV104_091521	9/15/2021		TO-15 VOCs, methane
	E-SV115	E-SV115_091521	9/16/2021		TO-15 VOCs
Block 1825 (F)	F-SV101	F-SV101_092221	9/22/2021		TO-15 VOCs
	F-SV102	F-SV102_092221	9/22/2021		
	F-SV103	F-SV103_092221	9/22/2021		
	F-SV104	F-SV104_092221	9/22/2021		
	F-SV105	F-SV105_092221	9/22/2021		
	F-SV107	F-SV107_092221	9/22/2021		
	F-SV108	F-SV108_092221	9/22/2021		
	F-SV109	F-SV109_092221	9/22/2021		
	F-SV110	F-SV110_092221	9/22/2021		TO-15 VOCs, methane
Block 1824 (G)	G-SV101	G-SV101_100721	10/7/2021		TO-15 VOCs
	G-SV102	G-SV102_100721	10/7/2021		
	G-SV103	G-SV103_100721	10/7/2021		
	G-SV104	G-SV104_100721	10/7/2021		TO-15 VOCs, methane
	G-SV105	G-SV105_100721	10/7/2021		TO-15 VOCs
	G-SV106	G-SV106_100721	10/7/2021		
	G-SV107	G-SV107_100721	10/7/2021		
	G-SV108	G-SV108_100721	10/7/2021		
	G-SV109 (at G-EP109 boring location)	G-SV109_100721	10/7/2021		
	G-SV110	G-SV110_100721	10/7/2021		

Table 1
Sample Collection Summary
Remedial Investigation Report

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Block 1823 (H)	H-SV101	H-SV101_100821	10/8/2021	Two feet above the groundwater interface	TO-15 VOCs, methane
	H-SV102	H-SV102_100821	10/8/2021		TO-15 VOCs
	H-SV103	H-SV103_100821	10/8/2021		
	H-SV104	H-SV104_100821	10/8/2021		
	H-SV105	H-SV105_100821	10/8/2021		
	H-SV106	H-SV106_100821	10/8/2021		
	H-SV107	H-SV107_100821	10/8/2021		
	H-SV108	H-SV108_100821	10/8/2021		
Block 1822 (I)	I-SV101	I-SV101_092921	9/29/2021		TO-15 VOCs
	I-SV102	I-SV102_092921	9/29/2021		
	I-SV103	I-SV103_092921	9/29/2021		
	I-SV104	I-SV104_092921	9/29/2021		
	I-SV105	I-SV105_092921	9/29/2021		TO-15 VOCs, methane
Block 1833 (J)	J-SV101	J-SV101_100821	10/8/2021		TO-15 VOCs
	J-SV102	J-SV102_100821	10/8/2021		TO-15 VOCs, methane
Block 1820 (K)	K-SV101	K-SV101_092821	9/28/2021		TO-15 VOCs
	K-SV102	K-SV102_092821	9/28/2021		
	K-SV103	K-SV103_092821	9/28/2021		
	K-SV104	K-SV104_092821	9/28/2021		TO-15 VOCs, methane
	K-SV105	K-SV105_092821	9/28/2021		TO-15 VOCs
Soil Vapor Duplicates					
QA/QC	Ambient Air	E-AA_091521	9/15/2021	4 feet above grade	TO-15 VOCs
	J-SV101	SVDUP01_100821	10/8/2021	Two feet above the groundwater interface	
	H-SV101	SVDUP02	10/8/2021		TO-15 VOCs, methane
	H-SV105	SVDUP03	10/8/2021		TO-15 VOCs

Table 1
Sample Collection Summary
Remedial Investigation Report

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
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Notes:

1. TCL - Target Compound List
2. VOCs - Volatile organic compounds
3. SVOCs - Semivolatile organic compounds
4. PCBs - Polychlorinated biphenyls
5. TCLP - Toxicity Characteristic Leaching Procedure
6. PFAS - Per- and polyfluoroalkyl substances
7. QA/QC - Quality Assurance/Quality Control
8. MS/MSD - Matrix Spike/Matrix Spike Duplicate
9. N/A - Not Applicable

Table 2
Remedial Investigation Report
Monitoring Well Construction and Groundwater Elevation Summary

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Well ID	TOC Elevation (NAVD88)	Ground Elevation (NAVD88)	Gauging Date	Screen Length (feet)	Bottom Screened Interval (feet bgs)	Top Screened Interval (feet bgs)	Bottom Screened Interval (NAVD88)	Top Screened Interval (NAVD88)	Depth of Boring (feet bTOC)	Depth to Groundwater (feet bgs)	Depth to Groundwater (feet bTOC)	Groundwater Elevation (NAVD88)
E-MW101	8.18	8.6	10/15/2021	10	12.53	2.53	-3.93	6.07	12.11	4.35	3.93	4.25
			12/7/2021							7.36	6.94	1.24
E-MW102	12.03	8.9	10/15/2021	10	12.20	2.20	-3.30	6.70	15.33	5.00	8.13	3.90
			12/7/2021							4.66	7.79	4.24
E-MW103	12.39	9.0	10/15/2021	10	11.74	1.74	-2.74	7.26	15.13	N/A	N/A	N/A
			12/7/2021							4.06	7.45	4.94
E-MW104	11.92	8.3	10/15/2021	10	11.94	1.94	-3.64	6.36	15.56	3.82	7.44	4.48
			12/7/2021							3.20	6.82	5.10
E-MW115	11.27	8.0	10/15/2021	14	15.51	1.51	-7.51	6.49	18.78	3.56	6.83	4.44
			12/7/2021							3.86	7.13	4.14
F-MW101	13.36	10.2	10/15/2021	10	12.06	2.06	-1.86	8.14	15.22	5.10	8.26	5.10
			12/7/2021							5.73	8.89	4.47
F-MW102	14.46	10.8	10/15/2021	10	11.82	1.82	-1.02	8.98	15.48	5.56	9.22	5.24
			12/7/2021							6.25	9.91	4.55
F-MW103	12.12	9.2	10/15/2021	10	12.23	2.23	-3.03	6.97	15.15	2.23	5.15	6.97
			12/7/2021							5.02	7.94	4.18
F-MW104	12.86	9.4	10/15/2021	10	11.64	1.64	-2.24	7.76	15.10	4.62	8.08	4.78
			12/7/2021							6.18	9.64	3.22
F-MW105	11.17	8.1	10/15/2021	10	11.85	1.85	-3.75	6.25	14.92	3.14	6.21	4.96
			12/7/2021							3.64	6.71	4.46
F-MW106	12.85	9.5	10/15/2021	10	12.16	2.16	-2.66	7.34	15.51	2.01	5.36	7.49
			12/7/2021							4.38	7.73	5.12
F-MW107	8.96	9.2	10/15/2021	10	11.89	1.89	-2.69	7.31	11.65	4.54	4.30	4.66
			12/7/2021							4.92	4.68	4.28
F-MW108	13.20	9.3	10/15/2021	10	10.35	0.35	-1.05	8.95	14.25	4.70	8.60	4.60
			12/7/2021							4.91	8.81	4.39
F-MW109	12.04	8.9	10/15/2021	10	12.00	2.00	-3.10	6.90	15.14	3.01	6.15	5.89
			12/7/2021							4.32	7.46	4.58
F-MW110	12.37	8.9	10/15/2021	10	11.82	1.82	-2.92	7.08	15.29	2.57	6.04	6.33
			12/7/2021							3.66	7.13	5.24
F-MW111	12.34	9.0	10/15/2021	10	12.17	2.17	-3.17	6.83	15.51	2.24	5.58	6.76
			12/7/2021							3.70	7.04	5.30
G-MW101	12.68	9.6	10/15/2021	10	12.30	2.30	-2.70	7.30	15.38	4.22	7.30	5.38
			12/7/2021							4.94	8.02	4.66
G-MW102	14.37	11.0	10/15/2021	10	10.67	0.67	0.33	10.33	14.04	5.21	8.58	5.79
			12/7/2021							6.01	9.38	4.99
G-MW103	12.98	10.2	10/15/2021	10	11.55	1.55	-1.35	8.65	14.33	4.12	6.90	6.08
			12/7/2021							5.06	7.84	5.14
G-MW104	13.08	9.8	10/15/2021	10	12.17	2.17	-2.37	7.63	15.45	3.56	6.84	6.24
			12/7/2021							N/A	N/A	N/A
G-MW105	12.82	9.9	10/15/2021	10	12.35	2.35	-2.45	7.55	15.27	4.51	7.43	5.39
			12/7/2021							5.30	8.22	4.60
G-MW106	14.67	11.1	10/15/2021	10	11.33	1.33	-0.23	9.77	14.90	5.68	9.25	5.42
			12/7/2021							N/A	N/A	N/A
G-MW107	13.51	10.7	10/15/2021	10	12.24	2.24	-1.54	8.46	15.05	4.82	7.63	5.88
			12/7/2021							5.70	8.51	5.00
G-MW108	12.57	10.0	10/15/2021	10	12.73	2.73	-2.73	7.27	15.30	3.70	6.27	6.30
			12/7/2021							5.04	7.61	4.96
G-MW109	13.12	9.7	10/15/2021	10	12.21	2.21	-2.51	7.49	15.63	2.21	5.63	7.49
			12/7/2021							4.50	7.92	5.20
G-MW110	13.11	10.0	10/15/2021	10	11.93	1.93	-1.93	8.07	15.04	3.19	6.30	6.81
			12/7/2021							4.87	7.98	5.13
H-MW101	11.14	11.5	10/15/2021	10	12.29	2.29	-0.79	9.21	11.93	5.31	4.95	6.19
			12/7/2021							5.84	5.48	5.66
H-MW102	15.53	12.5	10/15/2021	10	12.21	2.21	0.29	10.29	15.24	6.74	9.77	5.76
			12/7/2021							7.53	10.56	4.97
H-MW103	15.24	12.2	10/15/2021	10	12.06	2.06	0.14	10.14	15.10	6.51	9.55	5.69
			12/7/2021							7.12	10.16	5.08
H-MW104	15.00	12.1	10/15/2021	10	12.25	2.25	-0.15	9.85	15.15	6.41	9.31	5.69
			12/7/2021							7.10	10.00	5.00
H-MW105	14.93	11.8	10/15/2021	10	12.06	2.06	-0.26	9.74	15.19	6.04	9.17	5.76
			12/7/2021							6.80	9.93	5.00
H-MW106	14.95	11.9	10/15/2021	10	11.10	1.10	0.80	10.80	14.15	5.89	8.94	6.01
			12/7/2021							6.54	9.59	5.36
H-MW107	15.03	12.1	10/15/2021	10	10.90	0.90	1.20	11.20	13.83	6.13	9.06	5.97
			12/7/2021							N/A	N/A	N/A
H-MW108	13.35	10.6	10/15/2021	10	12.43	2.43	-1.83	8.17	15.18	4.41	7.16	6.19
			12/7/2021							5.34	8.09	5.26
I-MW101	16.33	13.1	10/15/2021	10	12.12	2.12	0.98	10.98	15.35	7.12	10.35	5.98
			12/7/2021							7.50	10.73	5.60
I-MW102	15.09	11.6	10/15/2021	10	11.86	1.86	-0.26	9.74	15.35	6.79	10.28	4.81
			12/7/2021							6.07	9.56	5.53
I-MW103	15.93	12.6	10/15/2021	10	12.07	2.07	0.53	10.53	15.40	6.65	9.98	5.95
			12/7/2021							6.91	10.24	5.69
I-MW104	16.26	13.3	10/15/2021	10	12.44	2.44	0.86	10.86	15.40	6.29	9.25	7.01
			12/7/2021							7.82	10.78	5.48
I-MW105	15.48	12.6	10/15/2021	10	12.28	2.28	0.32	10.32	15.16	6.52	9.40	6.08
			12/7/2021							7.64	10.52	4.96
J-MW101	9.30	9.5	10/15/2021	10	11.88	1.88	-2.38	7.62	11.68	3.45	3.25	6.05
			12/7/2021							4.27	4.07	5.23
J-MW102	9.21	9.4	10/15/2021	10	12.59	2.59	-3.19	6.81	12.40	3.30	3.11	6.10
			12/7/2021							N/A	N/A	N/A
J-MW112	N/A	N/A	10/15/2021	15	19.50	4.50	N/A	N/A	24.50	N/A	N/A	N/A
			12/7/2021							N/A	N/A	N/A
J-MW117	N/A	N/A	3/4/2022	10	12.00	2.00	N/A	N/A	12.00	5.90	5.90	N/A
J-MW118	N/A	N/A	3/4/2022	10	12.00	2.00	N/A	N/A	15.00	11.89	15.69	N/A
K-MW101	16.86	14.4	10/15/2021	10	14.29	4.29	0.11	10.11	16.75	9.68	12.14	4.72
			12/7/2021							N/A	N/A	N/A
K-MW102	16.57	14.1	10/15/2021	13	17.97	4.97	-3.87	9.13	20.44	9.39	11.86	4.71
			12/7/2021							9.96	12.43	4.14
K-MW103	18.22	15.6	10/15/2021	13	17.68	4.68	-2.08	10.92	20.30	10.96	13.58	4.64
			12/7/2021							11.44	14.06	4.16
K-MW104	16.90	14.1	10/15/2021	13	17.49	4.49	-3.39	9.61	20.29	9.36	12.16	4.74
			12/7/2021							9.71	12.51	4.39
K-MW105	16.13	13.1	10/15/2021	13	17.31	4.31	-4.21	8.79	20.34	7.51	10.54	5.59
			12/7/2021							7.81	10.84	5.29

Notes:

1. PVC = Polyvinyl chloride
2. bgs = Below ground surface
3. NAVD88 - North American Vertical Datum of 1988
4. TOC = Top of casing
5. bTOC = Below top of casing
6. Depth to groundwater was measured in feet below the top of well casing.
7. Langan completed a synoptic gauging event on October 15, 2021.
8. N/A = Not Applicable

Table 3A
Remedial Investigation Report
Soil Sample Analytical Results - Block 1826/1827 (E)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	E-EP101	E-EP101	E-EP101	E-EP102	E-EP102	E-EP102	E-EP109	E-EP109	E-EP109	E-EP110	E-EP115	E-EP115	E-EP116	E-EP117	E-EP118	E-EP118
						Sample Name	E-EP101_0-2	E-EP101_6-8	E-EP101_13-14	E-EP102_0-2	E-EP102_5-7	E-EP102_9-11	E-EP109_0-2	E-EP109_6-8	E-EP109_10-12	E-EP110_7-8	E-EP115_6.5-7.5	E-EP115_15-16	E-EP116_6-8	E-EP117_6-8	E-EP118_6-8	E-EP118_11-12
						Sample Date	09/10/2021	09/10/2021	09/13/2021	09/10/2021	09/10/2021	09/10/2021	09/13/2021	09/13/2021	09/13/2021	09/13/2021	09/09/2021	09/09/2021	09/14/2021	09/14/2021	09/14/2021	09/14/2021
						Sample Depth	0-2	6-8	13-14	0-2	5-7	9-11	0-2	6-8	10-12	7-8	6.5-7.5	15-16	6-8	6-8	6-8	11-12
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																						
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	500	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U
1,1-Dichloroethane	75-34-3	0.27	0.27	26	240	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U
1,1-Dichloroethene	75-35-4	0.33	0.33	100	500	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U
1,2,4-Trimethylbenzene	95-63-6	**3.6**	3.6	52	190	mg/kg	0.014	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	**12 D**	1.7 D	<0.0039 U	<0.26 U	0.0044 J	<0.0047 U	<0.0028 U	<0.0043 U	**13 D**	<0.0049 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	500	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 UJ	<0.0029 U	<0.0049 U
1,2-Dichloroethane	107-06-2	**0.02**	0.02	3.1	30	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	52	190	mg/kg	0.0055	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	3.6 D	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	0.15	<0.0049 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	280	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	130	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 UJ	<0.0029 U	<0.0049 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.045 U	<5.1 U	<0.072 U	<0.051 U	<0.046 U	<0.076 U	<4.7 U	<8.5 U	<0.078 U	<5.3 U	<0.044 U	<0.094 U	<0.057 U	<0.086 U	<0.058 U	<0.098 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U
Acetone	67-64-1	**0.05**	0.05	100	500	mg/kg	**0.071**	**0.59 JD**	0.038	**0.073**	0.05	**0.052**	<0.47 U	<0.85 U	0.035	<0.53 U	0.033 J	0.047	0.05	**0.14**	0.026	0.028
Acrolein	107-02-8	NS	NS	NS	NS	mg/kg	<0.0045 U	<0.51 U	<0.0072 U	<0.0051 U	<0.0046 U	<0.0076 U	<0.47 U	<0.85 U	<0.0078 U	<0.53 U	<0.0044 U	<0.0094 U	<0.0057 U	<0.0086 U	<0.0058 U	<0.0098 U
Acrylonitrile	107-13-1	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U
Benzene	71-43-2	**0.06**	0.06	4.8	44	mg/kg	0.0062	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	0.01	<0.0049 U
Bromochloromethane	74-97-5	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U
Bromodichloromethane	75-27-4	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U
Bromoform	75-25-2	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 UJ	<0.0047 UJ	<0.0028 U	<0.0043 UJ	<0.0029 U	<0.0049 U
Bromomethane	74-83-9	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U
Carbon Disulfide	75-15-0	NS	NS	NS	NS	mg/kg	0.004 J	<0.26 U	0.0076	<0.0025 U	<0.0023 U	0.0098	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	0.0034 J	0.013	<0.0028 U	<0.0043 U	0.0096	0.017
Carbon Tetrachloride	56-23-5	0.76	0.76	2.4	22	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U
Chlorobenzene	108-90-7	1.1	1.1	100	500	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U
Chloroethane	75-00-3	NS	NS	NS	NS	mg/kg	<0.0023 UJ	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U
Chloroform	67-66-3	0.37	0.37	49	350	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U
Chloromethane	74-87-3	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	100	500	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U
Cyclohexane	110-82-7	NS	NS	NS	NS	mg/kg	0.0079	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	0.043	<0.0049 U
Dibromochloromethane	124-48-1	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U
Dibromomethane	74-95-3	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	NS	mg/kg	<0.0023 UJ	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U
Ethylbenzene	100-41-4	**1**	1	41	390	mg/kg	0.0023 J	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	0.27 JD	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	**3.8 D**	<0.0049 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 UJ	<0.0029 U	<0.0049 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	NS	mg/kg	<0.0023 U	0.32 JD	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	0.54 D	0.71 JD	<0.0039 U	<0.26 U	0.0041 J	<0.0047 U	<0.0028 U	<0.0043 U	0.027	<0.0049 U
M,P-Xylene	179601-23-1	NS	NS	NS	NS	mg/kg	0.027	<0.51 U	<0.0072 U	<0.0051 U	<0.0046 U	<0.0076 U	5.8 D	<0.85 U	<0.0078 U	<0.53 U	0.0076 J	<0.0094 U	<0.0057 U	<0.0086 U	17 D	<0.0098 U
Methyl Acetate	79-20-9	NS	NS	NS	NS	mg/kg	<0.0023 U	0.47 JD	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	0.87 D	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	0.0052 J	<0.0029 U	<0.0049 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	**0.12**	0.12	100	500	mg/kg	0.013	**0.31 JD**	0.0076	0.017	0.014	0.012	**0.36 JD**	<0.43 U	0.0089	<0.26 U	0.0066 J	0.008 J	0.015	0.019	0.0067	0.0053 J
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	NS	mg/kg	0.0037 J	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U
Methylcyclohexane	108-87-2	NS	NS	NS	NS	mg/kg	0.016	1.4 D	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	0.57 D	0.66 JD	<0.0039 U	1.8 D	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	0.1	<0.0049 U
Methylene Chloride	75-09-2	0.05	0.05	100	500	mg/kg	<0.0045 U	<0.51 U	<0.014 U	<0.0051 U	<0.0046 U	<0.0076 U	<0.47 U	<0.85 U	<0.0078 U	<0.53 U	<0.0044 U	<0.0094 U	<0.0057 U	<0.0086 U	<0.0058 U	0.026
n-Butylbenzene	104-51-8	12	12	100	500	mg/kg	<0.0023 U	3 D	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	1.8 D	4 D	<0.0039 U	1 D	0.022 J	<0.0047 U	<0.0028 U	<0.0043 U	0.0059	<0.0049 U
n-Propylbenzene	103-65-1	3.9	3.9	100	500	mg/kg	<0.0023 U	1.3 D	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	1.5 D	1.9 D	<0.0039 U	<0.26 U	0.013 J	<0.0047 U	<0.0028 U	<0.0043 U	0.077	<0.0049 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	NS	mg/kg	0.0096	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	0.67 D	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	3.4 D	<0.0049 U
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	1.1 D	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U
Sec-Butylbenzene	135-98-8	11	11	100	500	mg/kg	<0.0023 U	2.9 D	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	1.1 D	1.7 D	<0.0039 U	0.96 D	0.0065 J	<0.0047 U	<0.0028 U	<0.0043 U	0.0029 J	<0.0049 U
Styrene	100-42-5	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 UJ	<0.0043 U	<0.0029 UJ	<0.0049 UJ
T-Butylbenzene	98-06-6	5.9	5.9	100	500	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 UJ	<0.0043 U	<0.0029 UJ	<0.0049 UJ
Tert-Butyl Alcohol	75-65-0	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.26 UJ	<0.0036 UJ	<0.0025 UJ	<0.0023 UJ	0.0065 J	<0.23 U	<0.43 U	<0.0039 U	<0.26 UJ	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 UJ	<0.0029 U	0.013
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	100	500	mg/kg	0.0082	<0.26 U	0.0058 J	<0.0025 U	<0.0023 U	0.0087	<0.23 U	<0.43 U	0.0055 J	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	0.0098
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	19	150	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 UJ	<0.0043 UJ	<0.0029 UJ	<0.0049 UJ
Toluene	108-88-3	**0.7**	0.7	100	500	mg/kg	0.0085	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	0.41 JD	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	0.017	<0.0049 U
Total Xylenes	1330-20-7	**0.26**	1.6	100	500	mg/kg	0.036	<0.77 U	<0.011 U	<0.0076 U	<0.0069 U	<0.011 U	**6.5 D**	<1.3 U	<0.012 U	<0.79 U	0.0076 J	<0.014 U	<0.0085 U	<0.013 U	**20 D**	<0.015 U
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	100	500	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U
Trichloroethene (TCE)	79-01-6	0.47	0.47	21	200	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U
Vinyl Chloride	75-01-4	0.02	0.02	0.9	13	mg/kg	<0.0023 U	<0.26 U	<0.0036 U	<0.0025 U	<0.0023 U	<0.0038 U	<0.23 U	<0.43 U	<0.0039 U	<0.26 U	<0.0022 U	<0.0047 U	<0.0028 U	<0.0043 U	<0.0029 U	<0.0049 U

Notes provided on Page 10.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3A
Remedial Investigation Report
Soil Sample Analytical Results - Block 1826/1827 (E)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	E-EP101	E-EP101	E-EP101	E-EP102	E-EP102	E-EP102	E-EP109	E-EP109	E-EP109	E-EP110	E-EP115	E-EP115	E-EP116	E-EP117	E-EP118	E-EP118
						Sample Name	E-EP101_0-2	E-EP101_6-8	E-EP101_13-14	E-EP102_0-2	E-EP102_5-7	E-EP102_9-11	E-EP109_0-2	E-EP109_6-8	E-EP109_10-12	E-EP110_7-8	E-EP115_6.5-7.5	E-EP115_15-16	E-EP116_6-8	E-EP117_6-8	E-EP118_6-8	E-EP118_11-12
						Sample Date	09/10/2021	09/10/2021	09/13/2021	09/10/2021	09/10/2021	09/10/2021	09/13/2021	09/13/2021	09/13/2021	09/13/2021	09/09/2021	09/09/2021	09/14/2021	09/14/2021	09/14/2021	09/14/2021
						Sample Depth	0-2	6-8	13-14	0-2	5-7	9-11	0-2	6-8	10-12	7-8	6.5-7.5	15-16	6-8	6-8	6-8	11-12
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																						
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	NS	mg/kg	<0.44 U	<0.0955 U	<0.123 U	<0.0942 U	<0.11 U	<0.135 U	<0.0957 U	<0.779 U	<0.13 U	<0.106 U	<0.097 U	<0.152 U	<0.121 U	<0.128 U	<0.101 U	<0.137 U
1,2-Diphenylhydrazine	122-66-7	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.0183 U	<0.0198 U	<0.0194 U	<0.0183 U	<0.0198 U	<0.0183 U	<0.0185 U	<0.0196 U	<0.0187 U	NA	NA	NA	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	NS	mg/kg	<0.44 U	<0.0955 U	<0.123 U	<0.0942 U	<0.11 U	<0.135 U	<0.0957 U	<0.779 U	<0.13 U	<0.106 U	<0.097 U	<0.152 U	<0.121 U	<0.128 U	<0.101 U	<0.137 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	NS	mg/kg	<0.44 U	<0.0955 U	<0.123 U	<0.0942 U	<0.11 U	<0.135 U	<0.0957 U	<0.779 U	<0.13 U	<0.106 U	<0.097 U	<0.152 U	<0.121 U	<0.128 U	<0.101 U	<0.137 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
2-Chlorophenol	95-57-8	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	0.285 D	2.74 D	<0.0653 U	<0.0533 U	0.175 D	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	500	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
2-Nitroaniline	88-74-4	NS	NS	NS	NS	mg/kg	<0.44 U	<0.0955 U	<0.123 U	<0.0942 U	<0.11 U	<0.135 U	<0.0957 U	<0.779 U	<0.13 U	<0.106 U	<0.097 U	<0.152 U	<0.121 U	<0.128 U	<0.101 U	<0.137 U
2-Nitrophenol	88-75-5	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	0.33	0.33	100	500	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	0.0927 JD	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
3-Nitroaniline	99-09-2	NS	NS	NS	NS	mg/kg	<0.44 U	<0.0955 U	<0.123 U	<0.0942 U	<0.11 U	<0.135 U	<0.0957 U	<0.779 U	<0.13 U	<0.106 U	<0.097 U	<0.152 U	<0.121 U	<0.128 U	<0.101 U	<0.137 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	NS	mg/kg	<0.44 U	<0.0955 U	<0.123 U	<0.0942 U	<0.11 U	<0.135 U	<0.0957 U	<0.779 U	<0.13 U	<0.106 U	<0.097 U	<0.152 U	<0.121 U	<0.128 U	<0.101 U	<0.137 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
4-Chloroaniline	106-47-8	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
4-Nitroaniline	100-01-6	NS	NS	NS	NS	mg/kg	<0.44 U	<0.0955 U	<0.123 U	<0.0942 U	<0.11 U	<0.135 U	<0.0957 U	<0.779 U	<0.13 U	<0.106 U	<0.097 U	<0.152 U	<0.121 U	<0.128 U	<0.101 U	<0.137 U
4-Nitrophenol	100-02-7	NS	NS	NS	NS	mg/kg	<0.44 U	<0.0955 U	<0.123 U	<0.0942 U	<0.11 U	<0.135 U	<0.0957 U	<0.779 U	<0.13 U	<0.106 U	<0.097 U	<0.152 U	<0.121 U	<0.128 U	<0.101 U	<0.137 U
Acenaphthene	83-32-9	20	98	100	500	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	0.076 JD	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
Acenaphthylene	208-96-8	100	107	100	500	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	0.0783 JD	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	0.89 D	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
Acetophenone	98-86-2	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	0.0636 JD	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	NS	NS	NS	mg/kg	<0.881 U	<0.191 U	<0.247 U	<0.189 U	<0.221 U	<0.271 U	<0.192 U	<1.56 U	<0.261 U	<0.213 U	<0.194 U	<0.303 U	<0.242 U	<0.256 U	<0.203 U	<0.274 U
Anthracene	120-12-7	100	1000	100	500	mg/kg	<0.22 U	0.0977 D	<0.0618 U	0.0978 D	0.11 D	<0.0677 U	0.0597 JD	<0.39 U	<0.0653 U	0.577 D	0.705 D	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
Atrazine	1912-24-9	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
Benzaldehyde	100-52-7	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
Benzidine	92-87-5	NS	NS	NS	NS	mg/kg	<0.881 U	<0.191 U	<0.247 U	<0.189 U	<0.221 U	<0.271 U	<0.192 U	<1.56 U	<0.261 U	<0.213 U	<0.194 U	<0.303 U	<0.242 U	<0.256 U	<0.203 U	<0.274 U
Benzo(a)anthracene	56-55-3	**1**	1	1	5.6	mg/kg	<0.22 U	0.206 D	<0.0618 U	0.2 D	0.215 D	<0.0677 U	0.146 D	0.728 JD	<0.0653 U	**1.36 D**	**4.05 D**	<0.0759 U	0.257 D	0.089 JD	<0.0508 U	<0.0685 U
Benzo(a)pyrene	50-32-8	**1**	22	1	1	mg/kg	<0.22 U	0.232 D	<0.0618 U	0.26 D	0.256 D	<0.0677 U	0.155 D	<0.39 U	<0.0653 U	**1.2 D**	**5.13 D**	<0.0759 U	0.293 D	0.107 JD	<0.0508 U	<0.0685 U
Benzo(b)fluoranthene	205-99-2	**1**	1.7	1	5.6	mg/kg	<0.22 U	0.197 D	<0.0618 U	0.205 D	0.203 D	<0.0677 U	0.155 D	0.517 JD	<0.0653 U	0.825 D	**4.02 D**	<0.0759 U	0.234 D	0.107 JD	<0.0508 U	<0.0685 U
Benzo(g,h,i)Perylene	191-24-2	100	1000	100	500	mg/kg	<0.22 U	0.162 D	<0.0618 U	0.146 D	0.108 JD	<0.0677 U	0.161 D	0.523 JD	<0.0653 U	0.453 D	2.64 D	<0.0759 U	0.176 D	<0.0641 U	<0.0508 U	<0.0685 U
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	3.9	56	mg/kg	<0.22 U	0.156 D	<0.0618 U	0.197 D	0.173 D	<0.0677 U	0.133 D	<0.39 U	<0.0653 U	0.785 D	**2.91 D**	<0.0759 U	0.203 D	0.089 JD	<0.0508 U	<0.0685 U
Benzoic Acid	65-85-0	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
Benzyl Alcohol	100-51-6	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	0.281 D	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	NS	mg/kg	24.2 D	0.637 D	<0.0618 U	0.113 D	0.206 D	<0.0677 U	0.427 D	6.77 D	<0.0653 U	0.375 D	0.198 D	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
Caprolactam	105-60-2	NS	NS	NS	NS	mg/kg	<0.44 U	<0.0955 U	<0.123 U	<0.0942 U	<0.11 U	<0.135 U	<0.0957 U	<0.779 U	<0.13 U	<0.106 U	<0.097 U	<0.152 U	<0.121 U	<0.128 U	<0.101 U	<0.137 U
Carbazole	86-74-8	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	0.0943 JD	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
Chrysene	218-01-9	**1**	1	3.9	56	mg/kg	<0.22 U	0.171 D	<0.0618 U	0.181 D	0.199 D	<0.0677 U	0.155 D	0.71 JD	<0.0653 U	**1.4 D**	**3.4 D**	<0.0759 U	0.241 D	0.108 JD	<0.0508 U	<0.0685 U
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.33	0.56	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	0.204 D	**0.686 D**	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
Dibenzofuran	132-64-9	7	210	59	350	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
Dibutyl phthalate	84-74-2	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	0.0551 JD	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
Diethyl phthalate	84-66-2	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
Dimethyl phthalate	131-11-3	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
Dioctyl phthalate	117-84-0	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
Diphenylamine	122-39-4	NS	NS	NS	NS	mg/kg	<0.44 U	<0.0955 U	<0.123 U	<0.0942 U	<0.11 U	<0.135 U	<0.0957 U	<0.779 U	<0.13 U	<0.106 U	<0.097 U	<0.152 U	<0.121 U	<0.128 U	<0.101 U	<0.137 U
Fluoranthene	206-44-0	**100**	1000	100	500	mg/kg	<0.22 U	0.458 D	<0.0618 U	0.347 D	0.511 D	<0.0677 U	0.22 D	1.04 D	<0.0653 U	2.35 D	6.02 D	<0.0759 U	0.319 D	0.162 D	0.0656 JD	<0.0685 U
Fluorene	86-73-7	30	386	100	500	mg/kg	<0.22 U	0.071 JD	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	0.42 D	0.179 D	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
Hexachlorobenzene	118-74-1	0.33	3.2	1.2	6	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
Hexachloroethane	67-72-1	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	0.5	5.6	mg/kg	<0.22 U	0.13 D	<0.0618 U	0.165 D	0.138 D	<0.0677 U	0.11 D	<0.39 U	<0.0653 U	**0.518 D**	**3.1 D**	<0.0759 U	0.228 D	0.0849 JD	<0.0508 U	<0.0685 U
Isophorone	78-59-1	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
Naphthalene	91-20-3	12	12	100	500	mg/kg	<0.22 U	0.084 JD	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	0.0934 JD	1.16 D	<0.0653 U	<0.0533 U	0.35 D	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
Nitrobenzene	98-95-3	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
n-Nitrosodimethylamine	62-75-9	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	NS	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	6.7	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
Phenanthrene	85-01-8	**100**	1000	100	500	mg/kg	<0.22 U	0.381 D	<0.0618 U	0.17 D	0.385 D	<0.0677 U	0.148 D	1.29 D	<0.0653 U	2.52 D	1.39 D	<0.0759 U	0.0745 JD	<0.0641 U	<0.0508 U	<0.0685 U
Phenol	108-95-2	0.33	0.33	100	500	mg/kg	<0.22 U	<0.0479 U	<0.0618 U	<0.0472 U	<0.0554 U	<0.0677 U	<0.048 U	<0.39 U	<0.0653 U	<0.0533 U	<0.0486 U	<0.0759 U	<0.0606 U	<0.0641 U	<0.0508 U	<0.0685 U
Pyrene	129-00-0	**100**	1000	100	500	mg/kg	<0.22 U	0.315 D	<0.0618 U	0.289 D	0.389 D	<0.0677 U	0.223 D	1.1 D	<0.0653 U	3.13 D	5.26 D	<0.0759 U	0.334 D	0.138 D	<0.0508 U	<0.0685 U
Pyridine	110-86-1	NS	NS	NS	NS	mg/kg	<0.881 U	<0.191 U	<0.247 U	<0.189 U	<0.221 U	<0.271 U	<0.192 U	<1.56 U	<0.261 U	<0.213 U	<0.194 U	<0.303 U	<0.242 U	<0.256 U	<0.203 U	<0.274 U

Notes provided on Page 10.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3A
Remedial Investigation Report
Soil Sample Analytical Results - Block 1826/1827 (E)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	E-EP101	E-EP101	E-EP101	E-EP102	E-EP102	E-EP102	E-EP109	E-EP109	E-EP109	E-EP110	E-EP115	E-EP115	E-EP116	E-EP117	E-EP118	E-EP118
						Sample Name	E-EP101_0-2	E-EP101_6-8	E-EP101_13-14	E-EP102_0-2	E-EP102_5-7	E-EP102_9-11	E-EP109_0-2	E-EP109_6-8	E-EP109_10-12	E-EP110_7-8	E-EP115_6.5-7.5	E-EP115_15-16	E-EP116_6-8	E-EP117_6-8	E-EP118_6-8	E-EP118_11-12
						Sample Date	09/10/2021	09/10/2021	09/13/2021	09/10/2021	09/10/2021	09/10/2021	09/13/2021	09/13/2021	09/13/2021	09/13/2021	09/09/2021	09/09/2021	09/14/2021	09/14/2021	09/14/2021	09/14/2021
						Sample Depth	0-2	6-8	13-14	0-2	5-7	9-11	0-2	6-8	10-12	7-8	6.5-7.5	15-16	6-8	6-8	6-8	11-12
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Petroleum Hydrocarbons																						
Total Petroleum Hydrocarbons	TPH	NS	NS	NS	NS	UNKNOWN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1 U	NA	NA	NA	NA	NA
Pesticides																						
4,4'-DDD	72-54-8	0.0033	14	13	92	mg/kg	<0.00176 U	<0.0019 U	<0.00245 U	<0.00183 U	<0.00221 U	<0.00264 U	<0.00188 U	<0.00307 U	<0.00257 U	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	72-55-9	0.0033	17	8.9	62	mg/kg	<0.00176 U	<0.0019 U	<0.00245 U	<0.00183 U	<0.00221 U	<0.00264 U	<0.00188 U	<0.00307 U	<0.00257 U	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	50-29-3	0.0033	136	7.9	47	mg/kg	<0.00176 U	<0.0019 U	<0.00245 U	<0.00183 U	<0.00221 U	<0.00264 U	<0.00188 U	<0.00307 U	<0.00257 U	NA	NA	NA	NA	NA	NA	NA
Aldrin	309-00-2	0.005	0.19	0.097	0.68	mg/kg	<0.00176 U	<0.0019 U	<0.00245 U	<0.00183 U	<0.00221 U	<0.00264 U	<0.00188 U	<0.00307 U	<0.00257 U	NA	NA	NA	NA	NA	NA	NA
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	0.48	3.4	mg/kg	<0.00176 U	<0.0019 U	<0.00245 U	<0.00183 U	<0.00221 U	<0.00264 U	<0.00188 U	<0.00307 U	<0.00257 U	NA	NA	NA	NA	NA	NA	NA
Alpha Chlordane	5103-71-9	0.094	2.9	4.2	24	mg/kg	<0.00176 U	<0.0019 U	<0.00245 U	<0.00183 U	<0.00221 U	<0.00264 U	<0.00188 U	<0.00307 U	<0.00257 U	NA	NA	NA	NA	NA	NA	NA
Alpha Endosulfan	959-98-8	2.4	102	24	200	mg/kg	<0.00176 U	<0.0019 U	<0.00245 U	<0.00183 U	<0.00221 U	<0.00264 U	<0.00188 U	<0.00307 U	<0.00257 U	NA	NA	NA	NA	NA	NA	NA
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	0.36	3	mg/kg	<0.00176 U	<0.0019 U	<0.00245 U	<0.00183 U	<0.00221 U	<0.00264 U	<0.00188 U	<0.00307 U	<0.00257 U	NA	NA	NA	NA	NA	NA	NA
Beta Endosulfan	33213-65-9	2.4	102	24	200	mg/kg	<0.00176 U	<0.0019 U	<0.00245 U	<0.00183 U	<0.00221 U	<0.00264 U	<0.00188 U	<0.00307 U	<0.00257 U	NA	NA	NA	NA	NA	NA	NA
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	NS	mg/kg	<0.0352 U	<0.038 U	<0.049 U	<0.0367 U	<0.0443 U	<0.0528 U	<0.0375 U	<0.0614 U	<0.0514 U	NA	NA	NA	NA	NA	NA	NA
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	100	500	mg/kg	<0.00176 U	<0.0019 U	<0.00245 U	<0.00183 U	<0.00221 U	<0.00264 U	<0.00188 U	<0.00307 U	<0.00257 U	NA	NA	NA	NA	NA	NA	NA
Dieldrin	60-57-1	0.005	0.1	0.2	1.4	mg/kg	<0.00176 U	<0.0019 U	<0.00245 U	<0.00183 U	<0.00221 U	<0.00264 U	<0.00188 U	<0.00307 U	<0.00257 U	NA	NA	NA	NA	NA	NA	NA
Endosulfan Sulfate	1031-07-8	2.4	1000	24	200	mg/kg	<0.00176 U	<0.0019 U	<0.00245 U	<0.00183 U	<0.00221 U	<0.00264 U	<0.00188 U	<0.00307 U	<0.00257 U	NA	NA	NA	NA	NA	NA	NA
Endrin	72-20-8	0.014	0.06	11	89	mg/kg	<0.00176 U	<0.0019 U	<0.00245 U	<0.00183 U	<0.00221 U	<0.00264 U	<0.00188 U	<0.00307 U	<0.00257 U	NA	NA	NA	NA	NA	NA	NA
Endrin Aldehyde	7421-93-4	NS	NS	NS	NS	mg/kg	<0.00176 U	<0.0019 U	<0.00245 U	<0.00183 U	<0.00221 U	<0.00264 U	<0.00188 U	<0.00307 U	<0.00257 U	NA	NA	NA	NA	NA	NA	NA
Endrin Ketone	53494-70-5	NS	NS	NS	NS	mg/kg	<0.00176 U	<0.0019 U	<0.00245 U	<0.00183 U	<0.00221 U	<0.00264 U	<0.00188 U	<0.00307 U	<0.00257 U	NA	NA	NA	NA	NA	NA	NA
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	1.3	9.2	mg/kg	<0.00176 U	<0.0019 U	<0.00245 U	<0.00183 U	<0.00221 U	<0.00264 U	<0.00188 U	<0.00307 U	<0.00257 U	NA	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	5566-34-7	NS	NS	NS	NS	mg/kg	<0.00176 U	<0.0019 U	<0.00245 U	<0.00183 U	<0.00221 U	<0.00264 U	<0.00188 U	<0.00307 U	<0.00257 U	NA	NA	NA	NA	NA	NA	NA
Heptachlor	76-44-8	0.042	0.38	2.1	15	mg/kg	<0.00176 U	<0.0019 U	<0.00245 U	<0.00183 U	<0.00221 U	<0.00264 U	<0.00188 U	<0.00307 U	<0.00257 U	NA	NA	NA	NA	NA	NA	NA
Heptachlor Epoxide	1024-57-3	NS	NS	NS	NS	mg/kg	<0.00176 U	<0.0019 U	<0.00245 U	<0.00183 U	<0.00221 U	<0.00264 U	<0.00188 U	<0.00307 U	<0.00257 U	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	72-43-5	NS	NS	NS	NS	mg/kg	<0.00176 U	<0.0019 U	<0.00245 U	<0.00183 U	<0.00221 U	<0.00264 U	<0.00188 U	<0.00307 U	<0.00257 U	NA	NA	NA	NA	NA	NA	NA
Toxaphene	8001-35-2	NS	NS	NS	NS	mg/kg	<0.176 U	<0.19 U	<0.245 U	<0.183 U	<0.221 U	<0.264 U	<0.188 U	<0.307 U	<0.257 U	NA	NA	NA	NA	NA	NA	NA
Herbicides																						
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	NS	mg/kg	<0.0214 U	<0.0227 U	<0.0296 U	<0.0226 U	<0.0264 U	<0.0324 U	<0.023 U	<0.0373 U	<0.0312 U	NA	NA	NA	NA	NA	NA	NA
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	NS	mg/kg	<0.0214 U	<0.0227 U	<0.0296 U	<0.0226 U	<0.0264 U	<0.0324 U	<0.023 U	<0.0373 U	<0.0312 U	NA	NA	NA	NA	NA	NA	NA
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	100	500	mg/kg	<0.0214 U	<0.0227 U	<0.0296 U	<0.0226 U	<0.0264 U	<0.0324 U	<0.023 U	<0.0373 U	<0.0312 U	NA	NA	NA	NA	NA	NA	NA
Polychlorinated Biphenyl																						
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	NS	mg/kg	<0.0177 UJ	<0.0192 U	<0.0247 UJ	<0.0185 U	<0.0224 U	<0.0266 U	<0.0189 U	<0.031 U	<0.0259 UJ	NA	NA	NA	NA	NA	NA	NA
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	NS	mg/kg	<0.0177 UJ	<0.0192 U	<0.0247 UJ	<0.0185 U	<0.0224 U	<0.0266 U	<0.0189 U	<0.031 U	<0.0259 UJ	NA	NA	NA	NA	NA	NA	NA
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	NS	mg/kg	<0.0177 UJ	<0.0192 U	<0.0247 UJ	<0.0185 U	<0.0224 U	<0.0266 U	<0.0189 U	<0.031 U	<0.0259 UJ	NA	NA	NA	NA	NA	NA	NA
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	NS	mg/kg	<0.0177 UJ	0.0726	<0.0247 UJ	<0.0185 U	<0.0224 U	<0.0266 U	<0.0189 U	<0.031 U	<0.0259 UJ	NA	NA	NA	NA	NA	NA	NA
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	NS	mg/kg	<0.0177 UJ	<0.0192 U	<0.0247 UJ	<0.0185 U	<0.0224 U	<0.0266 U	<0.0189 U	<0.031 U	<0.0259 UJ	NA	NA	NA	NA	NA	NA	NA
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	NS	mg/kg	<0.0177 UJ	<0.0192 U	<0.0247 UJ	<0.0185 U	<0.0224 U	<0.0266 U	<0.0189 U	<0.031 U	<0.0259 UJ	NA	NA	NA	NA	NA	NA	NA
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	NS	mg/kg	<0.0177 UJ	<0.0192 U	<0.0247 UJ	<0.0185 U	<0.0224 U	<0.0266 U	0.0524	0.0815	<0.0259 UJ	NA	NA	NA	NA	NA	NA	NA
Total PCBs	1336-36-3	**0.1**	3.2	1	1	mg/kg	<0.0177 UJ	0.0726	<0.0247 UJ	<0.0185 U	<0.0224 U	<0.0266 U	0.0524	0.0815	<0.0259 UJ	NA	NA	NA	NA	NA	NA	NA
Metals																						
Aluminum	7429-90-5	NS	NS	NS	NS	mg/kg	7,320	7,310	10,200	9,760	5,160	21,900	5,350	10,100	18,200	NA	NA	NA	NA	NA	NA	NA
Antimony	7440-36-0	NS	NS	NS	NS	mg/kg	<2.71 U	<2.89 U	<3.72 U	<2.86 U	<3.37 U	<4.08 U	<2.89 U	<4.7 U	<3.93 U	NA	NA	NA	NA	NA	NA	NA
Arsenic	7440-38-2	**13**	16	16	16	mg/kg	6.97	5.13	6.38	<1.72 U	10.9	5.99	10	**15**	9.35	NA	NA	NA	NA	NA	NA	NA
Barium	7440-39-3	**350**	820	400	400	mg/kg	88.9	229	58.2	93.6	**1,130**	61.6	104	**1,970**	60	NA	NA	NA	NA	NA	NA	NA
Beryllium	7440-41-7	7.2	47	72	590	mg/kg	<0.054 U	<0.058 U	<0.074 U	<0.057 U	<0.067 U	<0.082 U	<0.058 U	<0.094 U	<0.079 U	NA	NA	NA	NA	NA	NA	NA
Cadmium	7440-43-9	**2.5**	7.5	4.3	9.3	mg/kg	0.956	**7.99**	1.19	0.475	**6.24**	0.982	1.09	2.16	<0.472 U	NA	NA	NA	NA	NA	NA	NA
Calcium	7440-70-2	NS	NS	NS	NS	mg/kg	84,400	3,440	1,410	13,800	37,300	4,030	76,400	16,200	2,310	NA	NA	NA	NA	NA	NA	NA
Chromium, Hexavalent	18540-29-9	1	19	110	400	mg/kg	<0.541 U	<0.578 U	<0.744 U	<0.572 U	<0.673 U	<0.816 U	<0.578 U	<0.94 U	<0.786 U	NA	NA	NA	NA	NA	NA	NA
Chromium, Total	7440-47-3	NS	NS	NS	NS	mg/kg	103	24.5	34.1	19.4	73.8	40.4	27.3	50.8	40.2	NA	NA	NA	NA	NA	NA	NA
Chromium, Trivalent	16065-83-1	**30**	NS	180	1500	mg/kg	**103**	24.5	**34.1**	19.4	**73.8**	**40.4**	27.3	**50.8**	**40.2**	NA	NA	NA	NA	NA	NA	NA
Cobalt	7440-48-4	NS	NS	NS	NS	mg/kg	5.2	5.85	13.2	7.26	26.1	14.4	6.56	12.3	14.5	NA	NA	NA	NA	NA	NA	NA
Copper	7440-50-8	**50**	1720	270	270	mg/kg	**72.3**	**67**	20.6	27.1	**753**	17.5	**85.3**	**371**	17.7	NA	NA	NA	NA	NA	NA	NA
Cyanide	57-12-5	27	40	27	27	mg/kg	0.634	<0.578 U	<0.744 U	<0.572 U	<0.673 U	<0.816 U	<0.578 U	1.42	<0.786 U	NA	NA	NA	NA	NA	NA	NA
Iron	7439-89-6	NS	NS	NS	NS	mg/kg	19,400	17,000	21,200	17,200	226,000 D	35,600	18,300	46,100	33,500	NA	NA	NA	NA	NA	NA	NA
Lead	7439-92-1	**63**	450	400	1000	mg/kg	**78.3**	**296**	40.2	**137**	**2,400**	17.5	**679**	**2,790**	18.2	NA	NA	NA	NA	NA	NA	NA
Magnesium	7439-95-4	NS	NS	NS	NS	mg/kg	19,900	1,820	5,130	6,640	1,380	10,100	27,400	1,370	8,410	NA	NA	NA	NA	NA	NA	NA
Manganese	7439-96-5	**1600**	2000	2000	10000	mg/kg	206	101	848	182	**2,140**	1,160	283	379	971	NA	NA	NA	NA	NA	NA	NA
Mercury	7439-97-6	**0.18**	0.73	0.81	2.8	mg/kg	0.0422	**0.196**	0.122	0.127	**0.273**	0.144	0.0907	**1.19**	0.118	NA	NA	NA	NA	NA	NA	NA
Nickel	7440-02-0	**30**	130	310	310	mg/kg	25 J	14.4 J	16.3	11.8 J	**71.9 J**	19.1 J	21.4	**40.1**	24.9	NA	NA	NA	NA	NA	NA	NA
Potassium	7440-09-7	NS	NS	NS	NS	mg/kg	1,170	957	2,840 B	1,400	827	4,250	698	1,370	4,730	NA	NA	NA	NA	NA	NA	NA
Selenium	7782-49-2	**3.9**	4	180	1500	mg/kg	<2.71 U	<2.89 U	<3.72 U	<2.86 U	<3.37 U	<4.08 U	<2.89 U	<4.7 U	<3.93 U	NA	NA	NA	NA	NA	NA	NA
Silver	7440-22-4	**2**	8.3	180	1500	mg/kg	<0.541 U	<0.578 U	<0.744 U	<0.572 U	<0.673 U	<0.816 U	<0.578 U	1.45	<0.786 U	NA	NA	NA	NA	NA	NA	NA
Sodium	7440-23-5	NS	NS	NS	NS	mg/kg	502	3,240	1,710	<57.2 U	3,310	2,610	172	985	2,670	NA	NA	NA	NA	NA	NA	NA
Thallium	7440-28-0	NS	NS	NS	NS	mg/kg	<2.71 U	<2.89 U	<3.72 U	<2.86 U	8	<4.08 U	<2.89 U	<4.7 U	<3.93 U	NA	NA	NA	NA	NA	NA	NA
Vanadium	7440-62-2	NS	NS	NS	NS	mg/kg	25	38.8	44.2	27.8	19.8	53.3	25.7	44.2	52.1	NA	NA	NA	NA	NA	NA	NA
Zinc	7440-66-6	**109**	2480	10000	10000	mg/kg	**261**	**1,800**	87.7	104	**1,060**	83.1	**213**	**1,620**	81.8	NA	NA	NA	NA	NA	NA	NA
General Chemistry																						
Solids, Percent	SOLID	NS	NS	NS	NS	Percent	92.3	86.4	67.2	87.4	74.2	61.3	86.5	53.2	63.6	77.9	85.4	54	67.6	63.9	81	60.6
Perfluorooctanoic acids																						
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	NS	NS	NS	mg/kg	0.000686	0.00133	<0.000319 U	<0.000275 U	<0.000269 U	<0.000389 U	<0.000287 U	<0.000401 U	<0.000388 U	NA	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOSA	2355-31-9	NS	NS	NS	NS	mg/kg	<0.000255 U	<0.000289 U	<0.000319 U	<0.000275 U	<0.000269 U	<0.000389 U	<0.000287 U	<0.000401 U	<0.000388 U	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	NS	mg/kg	<0.000255 U	<0.000289 U	<0.000319 U	<0.000275 U	<0.000269 U	<0.000389 U	<0.000287 U	<0.000401 U	<0.000388 U	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	NS	mg/kg	<0.000255 U	<0.000289 U	<0.000319 U	<0.000275 U	<0.000269 U	<0.000389 U	0.000863	0.00219	<0.000388 U	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	NS	mg/kg	<0.000255 U	<0.000289 U	<0.000319 U	<0.000275 U	<0.000269 U	<0.000389 U	<0.000287 U	<0.000401 U	<0.000388 U	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	NS	mg/kg	<0.000255 U	<0.000289 U	<0.000319 U	<0.000275 U	<0.000269 U	<0.000389 U	<0.000287 U	<0.000401 U	<0.000388 U	NA	NA	NA	NA	NA	NA	NA
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	NS	mg/kg	<0.000255 U	<0.000289 U	<0.000319 U	<0.000275 U	<0.000269 U	<0.000389 U	<0.000287 U	<0.000401 U	<0.000388 U	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	NS	mg/kg	<0.000255 U	<0.000289 U	<0.000319 U	<0.000275 U	<0.000269 U	<0.000389 U	<0.000287 U	<0.000401 U	<0.000388 U	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	NS	mg/kg	<0.000255 U	<0.000289 U	<0.000319 U	<0.000275 U	<0.000269 U	<0.000389 U	<0.000287 U	<0.000401 U	<0.000388 U	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	NS	mg/kg	<0.000255 U	<0.000289 U	<0.000319 U	<0.000275 U	<0.000269 U	<0.000389 U	<0.000287 U	<0.000401 U	<0.000388 U	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	NS	mg/kg	<0.000255 U	<0.000289 U	<0.000319 U	<0.000275 U	<0.000269 U	<0.000389 U	<0.000287 U	<0.000401 U	<0.000388 U	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	NS	mg/kg	<0.000255 U	<0.000289 U	<0.000319 U	<0.000275 U	<0.000269 U	<0.000389 U	<0.000287 U	<0.000401 U	<0.000388 U	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	NS	mg/kg	<0.000255 U	<0.000289 U	<0.000319 U	<0.000275 U	<0.000269 U	<0.000389 U	<0.000287 U	<0.000401 U	<0.000388 U	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.044	0.44	mg/kg	<0.000255 U	<0.000289 U	<0.000319 U	0.000438	**0.000973**	<0.000389 U	0.000481	**0.00106**	<0.000388 U	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic Acid (PFOA)	335-67-1	0.00066	0.0011	0.033	0.5	mg/kg	<0.000255 U	<0.000289 U	<0.000319 U	<0.000275 U	<0.000269 U	<0.000389 U	<0.000287 U	<0.000401 U	<0.000388 U	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	NS	mg/kg	<0.000255 U	0.000296	<0.000319 U	<0.000275 U	<0.000269 U	<0.000389 U	0.000367	<0.000401 U	<0.000388 U	NA	NA	NA	NA	NA	NA	NA
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	NS	mg/kg	<0.000255 U	<0.000289 U	<0.000319 U	<0.000275 U	<0.000269 U	<0.000389 U	<0.000287 U	<0.000401 U	<0.000388 U	NA	NA	NA	NA	NA	NA	NA
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	NS	mg/kg	<0.000255 U	<0.000289 U	<0.000319 U	<0.000275 U	<0.000269 U	<0.000389 U	<0.000287 U	<0.000401 U	<0.000388 U	NA	NA	NA	NA	NA	NA	NA
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	NS	mg/kg	<0.000255 U	<0.000289 U	<0.000319 U	<0.000275 U	<0.000269 U	<0.000389 U	<0.000287 U	<0.000401 U	<0.000388 U	NA	NA	NA	NA	NA	NA	NA
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FTS	39108-34-4	NS	NS	NS	NS	mg/kg	<0.000255 U	<0.000289 U	<0.000319 U	<0.000275 U	<0.000269 U	<0.000389 U	<0.000287 U	<0.000401 U	<0.000388 U	NA	NA	NA	NA	NA	NA	NA
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FTS	27619-97-2	NS	NS	NS	NS	mg/kg	<0.000255 U	<0.000289 U	<0.000319 U	<0.000275 U	<0.000269 U	<0.000389 U	<0.000287 U	<0.000401 U	<0.000388 U	NA	NA	NA	NA	NA	NA	NA

Notes provided on Page 10.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3A
Remedial Investigation Report
Soil Sample Analytical Results - Block 1826/1827 (E)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	E-EP119	E-EP119	E-EP120	E-EP120	E-SB101	E-SB101	E-SB101	E-SB102	E-SB102	E-SB102	E-SB103	E-SB103	E-SB103	E-SB104	E-SB104	E-SB104	E-SB105
						Sample Name	E-EP119_6-8	E-EP119_11-12	E-EP120_6-8	E-EP120_11-12	E-SB101_0-2	E-SB101_6-8	E-SB101_11-12	E-SB102_0-2	E-SB102_6-8	E-SB102_10-12	E-SB103_0-2	E-SB103_6-8	E-SB103_12-14	E-SB104_0-2	E-SB104_4-6	E-SB104_11-12	E-SB105_0-2
						Sample Date	09/14/2021	09/14/2021	09/14/2021	09/14/2021	09/09/2021	09/09/2021	09/09/2021	09/10/2021	09/10/2021	09/10/2021	09/10/2021	09/10/2021	09/10/2021	09/09/2021	09/09/2021	09/09/2021	09/13/2021
						Sample Depth	6-8	11-12	6-8	11-12	0-2	6-8	11-12	0-2	6-8	10-12	0-2	6-8	12-14	0-2	4-6	11-12	0-2
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																							
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	NS	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	500	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	NS	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	NS	NS	NS	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	NS	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
1,1-Dichloroethane	75-34-3	0.27	0.27	26	240	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
1,1-Dichloroethene	75-35-4	0.33	0.33	100	500	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	NS	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	NS	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	NS	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
1,2,4-Trimethylbenzene	95-63-6	**3.6**	3.6	52	190	mg/kg	0.034	<0.0041 U	2.5 D	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	**9 D**	<0.0023 U	<0.003 U	<0.26 U	2.6 D	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	NS	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	NS	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	500	mg/kg	<0.0024 U	<0.0041 U	0.012	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
1,2-Dichloroethane	107-06-2	**0.02**	0.02	3.1	30	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	**0.49 JD**	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	NS	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	52	190	mg/kg	0.01	<0.0041 U	0.059	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	2.4 D	<0.0023 U	<0.003 U	<0.26 U	0.71 D	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	280	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	130	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.047 U	<0.082 U	<0.04 U	<0.078 U	<0.075 U	<0.06 U	<0.085 U	<5.4 U	<0.046 U	<0.061 U	<5.3 U	<4.7 U	<0.066 U	<0.049 U	<0.053 U	<0.077 U	<0.053 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	NS	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
Acetone	67-64-1	**0.05**	0.05	100	500	mg/kg	**0.055**	0.031	**0.053**	0.027	0.042	0.036	**0.064**	**0.71 JD**	0.021	**0.054**	<0.53 U	<0.47 U	**0.054**	**0.1**	**0.058**	**0.064**	0.047
Acrolein	107-02-8	NS	NS	NS	NS	mg/kg	<0.0047 U	<0.0082 U	<0.004 U	<0.0078 U	<0.0075 U	<0.006 U	<0.0085 U	<0.54 U	<0.0046 U	<0.0061 U	<0.53 U	<0.47 U	<0.0066 U	0.008 J	<0.0053 U	0.01 J	0.007 J
Acrylonitrile	107-13-1	NS	NS	NS	NS	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
Benzene	71-43-2	**0.06**	0.06	4.8	44	mg/kg	0.003 J	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	**4.7 D**	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
Bromochloromethane	74-97-5	NS	NS	NS	NS	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
Bromodichloromethane	75-27-4	NS	NS	NS	NS	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
Bromoform	75-25-2	NS	NS	NS	NS	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 UJ	<0.003 UJ	<0.0042 UJ	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 UJ	<0.0027 UJ	<0.0039 UJ	<0.0027 U
Bromomethane	74-83-9	NS	NS	NS	NS	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
Carbon Disulfide	75-15-0	NS	NS	NS	NS	mg/kg	0.0029 J	0.0088	0.0032 J	0.0079	<0.0037 U	<0.003 U	0.014	<0.27 U	<0.0023 U	0.0088	<0.26 U	<0.24 U	0.018	0.003 J	0.0075	0.0094	<0.0027 U
Carbon Tetrachloride	56-23-5	0.76	0.76	2.4	22	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
Chlorobenzene	108-90-7	1.1	1.1	100	500	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
Chloroethane	75-00-3	NS	NS	NS	NS	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 UJ	<0.0023 U	<0.003 U	<0.26 UJ	<0.24 UJ	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
Chloroform	67-66-3	0.37	0.37	49	350	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
Chloromethane	74-87-3	NS	NS	NS	NS	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	100	500	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	NS	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
Cyclohexane	110-82-7	NS	NS	NS	NS	mg/kg	0.0057	<0.0041 U	0.0027 J	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	0.52 JD	<0.0023 U	<0.003 U	0.36 JD	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
Dibromochloromethane	124-48-1	NS	NS	NS	NS	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
Dibromomethane	74-95-3	NS	NS	NS	NS	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	NS	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 UJ	<0.0023 U	<0.003 U	<0.26 UJ	<0.24 UJ	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
Ethylbenzene	100-41-4	**1**	1	41	390	mg/kg	0.0049	<0.0041 U	0.0035 J	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	**4.9 D**	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	NS	mg/kg	<0.0024 U	<0.0041 U	0.012	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	0.44 JD	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
M,P-Xylene	179601-23-1	NS	NS	NS	NS	mg/kg	0.018	<0.0082 U	0.022	<0.0078 U	<0.0075 U	<0.006 U	<0.0085 U	16 D	<0.0046 U	<0.0061 U	<0.53 U	0.91 JD	<0.0066 U	<0.0049 U	<0.0053 U	<0.0077 U	<0.0053 U
Methyl Acetate	79-20-9	NS	NS	NS	NS	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	0.79 D	<0.0023 U	<0.003 U	<0.26 U	0.45 JD	<0.0033 U	0.0032 J	<0.0027 U	<0.0039 U	<0.0027 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	**0.12**	0.12	100	500	mg/kg	0.012	0.0073 J	0.013	0.0058 J	0.0085	0.0052 J	0.012	**0.53 JD**	0.0046	0.013	<0.26 U	<0.24 U	0.012	0.024	0.0037 J	0.013	0.0096
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	NS	mg/kg	0.006	<0.0041 U	0.0021 J	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
Methylcyclohexane	108-87-2	NS	NS	NS	NS	mg/kg	0.013	<0.0041 U	0.0066	<0.0039 U	<0.0037 U	0.0045 J	<0.0042 U	0.85 D	<0.0023 U	<0.003 U	0.55 D	0.75 D	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
Methylene Chloride	75-09-2	0.05	0.05	100	500	mg/kg	0.0085 J	0.019	<0.004 U	0.012 J	<0.0075 U	<0.006 U	<0.0085 U	<0.54 U	<0.0046 U	0.0081 J	<0.53 U	<0.47 U	<0.0066 U	0.0055 J	<0.0053 U	<0.0077 U	<0.011 U
n-Butylbenzene	104-51-8	12	12	100	500	mg/kg	0.0039 J	<0.0041 U	0.075	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	1.2 D	<0.0023 U	<0.003 U	0.48 JD	0.39 JD	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
n-Propylbenzene	103-65-1	3.9	3.9	100	500	mg/kg	0.0035 J	<0.0041 U	0.036	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	2.2 D	<0.0023 U	<0.003 U	<0.26 U	0.24 JD	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	NS	mg/kg	0.014	<0.0041 U	0.018	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	4.2 D	<0.0023 U	<0.003 U	<0.26 U	0.73 D	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	NS	NS	mg/kg	<0.0024 U	<0.0041 U	0.0095	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
Sec-Butylbenzene	135-98-8	11	11	100	500	mg/kg	<0.0024 U	<0.0041 U	0.01	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	0.3 JD	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
Styrene	100-42-5	NS	NS	NS	NS	mg/kg	<0.0024 UJ	<0.0041 UJ	<0.002 UJ	<0.0039 UJ	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
T-Butylbenzene	98-06-6	5.9	5.9	100	500	mg/kg	<0.0024 UJ	<0.0041 UJ	<0.002 UJ	<0.0039 UJ	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	0.35 JD	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
Tert-Butyl Alcohol	75-65-0	NS	NS	NS	NS	mg/kg	0.0035 J	0.022	0.004	0.016	0.014	<0.003 U	<0.0042 U	<0.27 U	<0.0023 UJ	0.0092 J	<0.26 U	<0.24 U	0.0086 J	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	100	500	mg/kg	<0.0024 U	0.0054 J	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	0.034	0.27 JD	<0.0023 U	0.015	<0.26 U	<0.24 U	0.0085	<0.0024 U	<0.0027 U	0.0068 J	<0.0027 U
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	19	150	mg/kg	<0.0024 UJ	<0.0041 UJ	<0.002 UJ	<0.0039 UJ	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
Toluene	108-88-3	**0.7**	0.7	100	500	mg/kg	0.0055	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	**12 D**	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
Total Xylenes	1330-20-7	**0.26**	1.6	100	500	mg/kg	0.032	<0.012 U	0.04	<0.012 U	<0.011 U	<0.009 U	<0.013 U	**20 D**	<0.0069 U	<0.0091 U	<0.79 U	**1.6 D**	<0.0099 U	<0.0073 U	<0.008 U	<0.012 U	<0.008 U
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	100	500	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	NS	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
Trichloroethene (TCE)	79-01-6	0.47	0.47	21	200	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	NS	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U
Vinyl Chloride	75-01-4	0.02	0.02	0.9	13	mg/kg	<0.0024 U	<0.0041 U	<0.002 U	<0.0039 U	<0.0037 U	<0.003 U	<0.0042 U	<0.27 U	<0.0023 U	<0.003 U	<0.26 U	<0.24 U	<0.0033 U	<0.0024 U	<0.0027 U	<0.0039 U	<0.0027 U

Notes provided on Page 10.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3A
Remedial Investigation Report
Soil Sample Analytical Results - Block 1826/1827 (E)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	E-EP119	E-EP119	E-EP120	E-EP120	E-SB101	E-SB101	E-SB101	E-SB102	E-SB102	E-SB102	E-SB103	E-SB103	E-SB103	E-SB104	E-SB104	E-SB104	E-SB105
						Sample Name	E-EP119_6-8	E-EP119_11-12	E-EP120_6-8	E-EP120_11-12	E-SB101_0-2	E-SB101_6-8	E-SB101_11-12	E-SB102_0-2	E-SB102_6-8	E-SB102_10-12	E-SB103_0-2	E-SB103_6-8	E-SB103_12-14	E-SB104_0-2	E-SB104_4-6	E-SB104_11-12	E-SB105_0-2
						Sample Date	09/14/2021	09/14/2021	09/14/2021	09/14/2021	09/09/2021	09/09/2021	09/09/2021	09/10/2021	09/10/2021	09/10/2021	09/10/2021	09/10/2021	09/10/2021	09/09/2021	09/09/2021	09/09/2021	09/13/2021
						Sample Depth	6-8	11-12	6-8	11-12	0-2	6-8	11-12	0-2	6-8	10-12	0-2	6-8	12-14	0-2	4-6	11-12	0-2
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																							
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	NS	mg/kg	<0.0999 U	<0.131 U	<0.0919 U	<0.119 U	<0.0939 U	<0.108 U	<0.14 U	<0.436 U	<0.0953 U	<0.0993 U	<0.529 U	<0.099 U	<0.134 U	<0.0964 U	<0.115 U	<0.131 U	<0.0944 U
1,2-Diphenylhydrazine	122-66-7	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	<0.0578 U	<0.0656 U	<0.0473 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	NA	NA	NA	NA	<0.0189 U	<0.0192 U	<0.0198 U	<0.0196 U	<0.0183 U	<0.0196 U	<0.0192 U	<0.0183 U	<0.0189 U	<0.0198 U	<0.0183 U	<0.0196 U	<0.0183 U
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	NS	mg/kg	<0.0999 U	<0.131 U	<0.0919 U	<0.119 U	<0.0939 U	<0.108 U	<0.14 U	<0.436 U	<0.0953 U	<0.0993 U	<0.529 U	<0.099 U	<0.134 U	<0.0964 U	<0.115 U	<0.131 U	<0.0944 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	<0.0578 U	<0.0656 U	<0.0473 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	<0.0578 U	<0.0656 U	<0.0473 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	<0.0578 U	<0.0656 U	<0.0473 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	0.112 D	<0.0578 U	<0.0656 U	<0.0473 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	NS	mg/kg	<0.0999 U	<0.131 U	<0.0919 U	<0.119 U	<0.0939 U	<0.108 U	<0.14 U	<0.436 U	<0.0953 U	<0.0993 U	<0.529 U	<0.099 U	<0.134 U	<0.0964 U	<0.115 U	<0.131 U	<0.0944 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	<0.0578 U	<0.0656 U	<0.0473 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	<0.0578 U	<0.0656 U	<0.0473 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	<0.0578 U	<0.0656 U	<0.0473 U
2-Chlorophenol	95-57-8	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	<0.0578 U	<0.0656 U	<0.0473 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	NS	mg/kg	0.133 D	<0.0655 U	0.356 D	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	1.01 D	0.0716 JD	<0.0498 U	2.81 D	0.0506 JD	<0.0672 U	0.796 D	<0.0578 U	<0.0656 U	0.0649 JD
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	500	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	0.0593 JD	<0.0578 U	<0.0656 U	<0.0473 U
2-Nitroaniline	88-74-4	NS	NS	NS	NS	mg/kg	<0.0999 U	<0.131 U	<0.0919 U	<0.119 U	<0.0939 U	<0.108 U	<0.14 U	<0.436 U	<0.0953 U	<0.0993 U	<0.529 U	<0.099 U	<0.134 U	<0.0964 U	<0.115 U	<0.131 U	<0.0944 U
2-Nitrophenol	88-75-5	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	<0.0578 U	<0.0656 U	<0.0473 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	0.33	0.33	100	500	mg/kg	<0.0501 U	<0.0655 U	0.0669 JD	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	0.263 D	<0.0578 U	<0.0656 U	<0.0473 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	<0.0578 U	<0.0656 U	<0.0473 U
3-Nitroaniline	99-09-2	NS	NS	NS	NS	mg/kg	<0.0999 U	<0.131 U	<0.0919 U	<0.119 U	<0.0939 U	<0.108 U	<0.14 U	<0.436 U	<0.0953 U	<0.0993 U	<0.529 U	<0.099 U	<0.134 U	<0.0964 U	<0.115 U	<0.131 U	<0.0944 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	NS	mg/kg	<0.0999 U	<0.131 U	<0.0919 U	<0.119 U	<0.0939 U	<0.108 U	<0.14 U	<0.436 U	<0.0953 U	<0.0993 U	<0.529 U	<0.099 U	<0.134 U	<0.0964 U	<0.115 U	<0.131 U	<0.0944 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	<0.0578 U	<0.0656 U	<0.0473 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	<0.0578 U	<0.0656 U	<0.0473 U
4-Chloroaniline	106-47-8	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	<0.0578 U	<0.0656 U	<0.0473 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	<0.0578 U	<0.0656 U	<0.0473 U
4-Nitroaniline	100-01-6	NS	NS	NS	NS	mg/kg	<0.0999 U	<0.131 U	<0.0919 U	<0.119 U	<0.0939 U	<0.108 U	<0.14 U	<0.436 U	<0.0953 U	<0.0993 U	<0.529 U	<0.099 U	<0.134 U	<0.0964 U	<0.115 U	<0.131 U	<0.0944 U
4-Nitrophenol	100-02-7	NS	NS	NS	NS	mg/kg	<0.0999 U	<0.131 U	<0.0919 U	<0.119 U	<0.0939 U	<0.108 U	<0.14 U	<0.436 U	<0.0953 U	<0.0993 U	<0.529 U	<0.099 U	<0.134 U	<0.0964 U	<0.115 U	<0.131 U	<0.0944 U
Acenaphthene	83-32-9	20	98	100	500	mg/kg	0.634 D	<0.0655 U	2.12 D	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	0.0853 JD	<0.0498 U	4.29 D	<0.0496 U	<0.0672 U	2.99 D	0.188 D	<0.0656 U	<0.0473 U
Acenaphthylene	208-96-8	100	107	100	500	mg/kg	3.16 D	<0.0655 U	1.92 D	0.0667 JD	0.131 D	0.0835 JD	<0.0699 U	<0.219 U	0.0693 JD	<0.0498 U	1.4 D	0.0846 JD	<0.0672 U	8.03 D	0.65 D	0.21 D	0.0981 D
Acetophenone	98-86-2	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	<0.0578 U	<0.0656 U	<0.0473 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	NS	NS	NS	mg/kg	<0.2 U	<0.262 U	<0.184 U	<0.239 U	<0.188 U	<0.216 U	<0.279 U	<0.874 U	<0.191 U	<0.199 U	<1.06 U	<0.198 U	<0.269 U	<0.193 U	<0.231 U	<0.262 U	<0.189 U
Anthracene	120-12-7	100	1000	100	500	mg/kg	3.05 D	<0.0655 U	14.2 D	<0.0597 U	0.093 JD	<0.054 U	<0.0699 U	<0.219 U	0.103 D	0.107 D	21.1 D	0.231 D	<0.0672 U	26.1 D	1.16 D	<0.0656 U	0.185 D
Atrazine	1912-24-9	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	<0.0578 U	<0.0656 U	<0.0473 U
Benzaldehyde	100-52-7	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	<0.0578 U	<0.0656 U	<0.0473 U
Benzidine	92-87-5	NS	NS	NS	NS	mg/kg	<0.2 U	<0.262 U	<0.184 U	<0.239 U	<0.188 U	<0.216 U	<0.279 U	<0.874 U	<0.191 U	<0.199 U	<1.06 U	<0.198 U	<0.269 U	<0.193 U	<0.231 U	<0.262 U	<0.189 U
Benzo(a)anthracene	56-55-3	**1**	1	1	5.6	mg/kg	**6.66 D**	<0.0655 U	**20.5 D**	<0.0597 U	0.396 D	0.0801 JD	<0.0699 U	0.276 JD	0.238 D	0.271 D	**42.6 D**	0.513 D	<0.0672 U	**66 D**	**1.75 D**	<0.0656 U	0.543 D
Benzo(a)pyrene	50-32-8	**1**	22	1	1	mg/kg	**7.11 D**	<0.0655 U	**17.3 D**	<0.0597 U	0.518 D	<0.054 U	<0.0699 U	0.335 JD	0.356 D	0.354 D	**30.5 D**	0.571 D	<0.0672 U	**54 D**	**1.38 D**	<0.0656 U	0.516 D
Benzo(b)fluoranthene	205-99-2	**1**	1.7	1	5.6	mg/kg	**4.63 D**	<0.0655 U	**14.3 D**	<0.0597 U	0.559 D	<0.054 U	<0.0699 U	0.297 JD	0.296 D	0.258 D	**25.1 D**	0.461 D	<0.0672 U	**46.2 D**	**1.05 D**	<0.0656 U	0.556 D
Benzo(g,h,i)Perylene	191-24-2	100	1000	100	500	mg/kg	3.04 D	<0.0655 U	8.09 D	<0.0597 U	0.363 D	<0.054 U	<0.0699 U	0.293 JD	0.181 D	0.174 D	14.9 D	0.271 D	<0.0672 U	22.2 D	0.612 D	<0.0656 U	0.407 D
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	3.9	56	mg/kg	**4.48 D**	<0.0655 U	**13.1 D**	<0.0597 U	0.546 D	<0.054 U	<0.0699 U	0.22 JD	0.273 D	0.206 D	**25.8 D**	0.411 D	<0.0672 U	**37.2 D**	**1.25 D**	<0.0656 U	0.479 D
Benzoic Acid	65-85-0	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	<0.0578 U	<0.0656 U	<0.0473 U
Benzyl Alcohol	100-51-6	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	<0.0578 U	<0.0656 U	<0.0473 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	<0.0578 U	<0.0656 U	<0.0473 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	0.0845 JD	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	<0.0578 U	<0.0656 U	<0.0473 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	<0.0578 U	<0.0656 U	<0.0473 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	<0.0578 U	<0.0656 U	<0.0473 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	<0.0578 U	<0.0656 U	<0.0473 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	1.91 D	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	2.16 D	<0.0477 U	<0.0498 U	5.51 D	0.109 D	<0.0672 U	0.077 JD	<0.0578 U	<0.0656 U	0.193 D
Caprolactam	105-60-2	NS	NS	NS	NS	mg/kg	<0.0999 U	<0.131 U	<0.0919 U	<0.119 U	<0.0939 U	<0.108 U	<0.14 U	<0.436 U	<0.0953 U	<0.0993 U	<0.529 U	<0.099 U	<0.134 U	<0.0964 U	<0.115 U	<0.131 U	<0.0944 U
Carbazole	86-74-8	NS	NS	NS	NS	mg/kg	0.538 D	<0.0655 U	4.45 D	<0.0597 U	0.066 JD	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	4.6 D	0.0498 JD	<0.0672 U	6.95 D	0.256 D	<0.0656 U	0.0589 JD
Chrysene	218-01-9	**1**	1	3.9	56	mg/kg	**5.97 D**	<0.0655 U	**17 D**	<0.0597 U	0.599 D	0.0706 JD	<0.0699 U	0.293 JD	0.27 D	0.251 D	**33.6 D**	0.431 D	<0.0672 U	**51.7 D**	**1.47 D**	<0.0656 U	0.566 D
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.33	0.56	mg/kg	**1.49 D**	<0.0655 U	**3.19 D**	<0.0597 U	0.146 D	<0.054 U	<0.0699 U	<0.219 U	0.0548 JD	0.0532 JD	**6.96 D**	0.0815 JD	<0.0672 U	**12.7 D**	0.318 D	<0.0656 U	0.137 D
Dibenzofuran	132-64-9	7	210	59	350	mg/kg	0.343 D	<0.0655 U	1.89 D	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	2.99 D	<0.0496 U	<0.0672 U	<0.0483 U	0.226 D	<0.0656 U	<0.0473 U
Dibutyl phthalate	84-74-2	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	0.307 D	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	0.44 D	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	0.0686 JD	<0.0578 U	<0.0656 U	<0.0473 U
Diethyl phthalate	84-66-2	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	<0.0578 U	<0.0656 U	<0.0473 U
Dimethyl phthalate	131-11-3	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	<0.0578 U	<0.0656 U	<0.0473 U
Dioctyl phthalate	117-84-0	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	0.324 D	<0.0656 U	<0.0473 U
Diphenylamine	122-39-4	NS	NS	NS	NS	mg/kg	<0.0999 U	<0.131 U	<0.0919 U	<0.119 U	<0.0939 U	<0.108 U	<0.14 U	<0.436 U	<0.0953 U	<0.0993 U	<0.529 U	<0.099 U	<0.134 U	<0.0964 U	<0.115 U	<0.131 U	<0.0944 U
Fluoranthene	206-44-0	**100**	1000	100	500	mg/kg	9.54 D	<0.0655 U	37.2 D	<0.0597 U	1.16 D	0.119 D	<0.0699 U	0.502 D	0.494 D	0.513 D	92.7 D	0.973 D	<0.0672 U	**219 D**	3.66 D	<0.0656 U	0.912 D
Fluorene	86-73-7	30	386	100	500	mg/kg	1.14 D	<0.0655 U	6.38 D	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	0.135 D	<0.0498 U	10 D	0.123 D	<0.0672 U	13.9 D	0.621 D	<0.0656 U	0.0694 JD
Hexachlorobenzene	118-74-1	0.33	3.2	1.2	6	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	0.107 JD	<0.0656 U	<0.0473 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	<0.0578 U	<0.0656 U	<0.0473 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	<0.0578 U	<0.0656 U	<0.0473 U
Hexachloroethane	67-72-1	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	<0.0578 U	<0.0656 U	<0.0473 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	0.5	5.6	mg/kg	**4.43 D**	<0.0655 U	**11.5 D**	<0.0597 U	0.421 D	<0.054 U	<0.0699 U	0.262 JD	0.222 D	0.217 D	**19.6 D**	0.342 D	<0.0672 U	**34.6 D**	**0.802 D**	<0.0656 U	0.459 D
Isophorone	78-59-1	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	<0.0578 U	<0.0656 U	<0.0473 U
Naphthalene	91-20-3	12	12	100	500	mg/kg	0.169 D	<0.0655 U	0.266 D	<0.0597 U	0.0863 JD	<0.054 U	<0.0699 U	0.687 D	0.179 D	<0.0498 U	1.12 D	<0.0496 U	<0.0672 U	0.852 D	0.0969 JD	<0.0656 U	0.0528 JD
Nitrobenzene	98-95-3	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	<0.0578 U	<0.0656 U	<0.0473 U
n-Nitrosodimethylamine	62-75-9	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	<0.0578 U	<0.0656 U	<0.0473 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	<0.0578 U	<0.0656 U	<0.0473 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	NS	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	<0.0578 U	<0.0656 U	<0.0473 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	6.7	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	<0.0578 U	<0.0656 U	<0.0473 U
Phenanthrene	85-01-8	**100**	1000	100	500	mg/kg	6.69 D	<0.0655 U	33.8 D	<0.0597 U	0.427 D	0.0809 JD	<0.0699 U	0.394 JD	0.326 D	0.258 D	63.7 D	0.654 D	<0.0672 U	**147 D**	2.91 D	<0.0656 U	0.587 D
Phenol	108-95-2	0.33	0.33	100	500	mg/kg	<0.0501 U	<0.0655 U	<0.0461 U	<0.0597 U	<0.047 U	<0.054 U	<0.0699 U	<0.219 U	<0.0477 U	<0.0498 U	<0.265 U	<0.0496 U	<0.0672 U	<0.0483 U	<0.0578 U	<0.0656 U	<0.0473 U
Pyrene	129-00-0	**100**	1000	100	500	mg/kg	8.99 D	<0.0655 U	29.4 D	<0.0597 U	0.851 D	0.115 D	<0.0699 U	0.628 D	0.398 D	0.377 D	69.5 D	0.697 D	<0.0672 U	**166 D**	2.7 D	<0.0656 U	0.974 D
Pyridine	110-86-1	NS	NS	NS	NS	mg/kg	<0.2 U	<0.262 U	<0.184 U	<0.239 U	<0.188 U	<0.216 U	<0.279 U	<0.874 U	<0.191 U	<0.199 U	<1.06 U	<0.198 U	<0.269 U	<0.193 U	<0.231 U	<0.262 U	<0.189 U

Notes provided on Page 10.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3A
Remedial Investigation Report
Soil Sample Analytical Results - Block 1826/1827 (E)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	E-EP119	E-EP119	E-EP120	E-EP120	E-SB101	E-SB101	E-SB101	E-SB102	E-SB102	E-SB102	E-SB103	E-SB103	E-SB103	E-SB104	E-SB104	E-SB104	E-SB105
						Sample Name	E-EP119_6-8	E-EP119_11-12	E-EP120_6-8	E-EP120_11-12	E-SB101_0-2	E-SB101_6-8	E-SB101_11-12	E-SB102_0-2	E-SB102_6-8	E-SB102_10-12	E-SB103_0-2	E-SB103_6-8	E-SB103_12-14	E-SB104_0-2	E-SB104_4-6	E-SB104_11-12	E-SB105_0-2
						Sample Date	09/14/2021	09/14/2021	09/14/2021	09/14/2021	09/09/2021	09/09/2021	09/09/2021	09/10/2021	09/10/2021	09/10/2021	09/10/2021	09/10/2021	09/10/2021	09/09/2021	09/09/2021	09/09/2021	09/13/2021
						Sample Depth	6-8	11-12	6-8	11-12	0-2	6-8	11-12	0-2	6-8	10-12	0-2	6-8	12-14	0-2	4-6	11-12	0-2
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Petroleum Hydrocarbons																							
Total Petroleum Hydrocarbons	TPH	NS	NS	NS	NS	UNKNOWN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides																							
4,4'-DDD	72-54-8	0.0033	14	13	92	mg/kg	NA	NA	NA	NA	<0.00184 U	<0.00212 U	<0.00272 U	<0.00173 U	<0.00187 U	<0.00196 U	<0.00207 U	<0.00196 U	<0.00267 U	<0.00193 U	<0.00228 UJ	<0.00262 U	<0.00184 U
4,4'-DDE	72-55-9	0.0033	17	8.9	62	mg/kg	NA	NA	NA	NA	<0.00184 U	<0.00212 U	<0.00272 U	<0.00173 U	<0.00187 U	<0.00196 U	<0.00207 U	<0.00196 U	<0.00267 U	<0.00193 U	<0.00228 UJ	<0.00262 U	<0.00184 U
4,4'-DDT	50-29-3	0.0033	136	7.9	47	mg/kg	NA	NA	NA	NA	<0.00184 U	<0.00212 U	<0.00272 U	<0.00173 U	<0.00187 U	<0.00196 U	<0.00207 U	<0.00196 U	<0.00267 U	<0.00193 U	<0.00228 UJ	<0.00262 U	<0.00184 U
Aldrin	309-00-2	0.005	0.19	0.097	0.68	mg/kg	NA	NA	NA	NA	<0.00184 U	<0.00212 U	<0.00272 U	<0.00173 U	<0.00187 U	<0.00196 U	<0.00207 U	<0.00196 U	<0.00267 U	<0.00193 U	<0.00228 UJ	<0.00262 U	<0.00184 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	0.48	3.4	mg/kg	NA	NA	NA	NA	<0.00184 U	<0.00212 U	<0.00272 U	<0.00173 U	<0.00187 U	<0.00196 U	<0.00207 U	<0.00196 U	<0.00267 U	<0.00193 U	<0.00228 UJ	<0.00262 U	<0.00184 U
Alpha Chlordane	5103-71-9	0.094	2.9	4.2	24	mg/kg	NA	NA	NA	NA	<0.00184 U	<0.00212 U	<0.00272 U	<0.00173 U	<0.00187 U	<0.00196 U	<0.00207 U	<0.00196 U	<0.00267 U	<0.00193 U	<0.00228 UJ	<0.00262 U	<0.00184 U
Alpha Endosulfan	959-98-8	2.4	102	24	200	mg/kg	NA	NA	NA	NA	<0.00184 U	<0.00212 U	<0.00272 U	<0.00173 U	<0.00187 U	<0.00196 U	<0.00207 U	<0.00196 U	<0.00267 U	<0.00193 U	<0.00228 UJ	<0.00262 U	<0.00184 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	0.36	3	mg/kg	NA	NA	NA	NA	<0.00184 U	<0.00212 U	<0.00272 U	<0.00173 U	<0.00187 U	<0.00196 U	<0.00207 U	<0.00196 U	<0.00267 U	<0.00193 U	<0.00228 UJ	<0.00262 U	<0.00184 U
Beta Endosulfan	33213-65-9	2.4	102	24	200	mg/kg	NA	NA	NA	NA	<0.00184 U	<0.00212 U	<0.00272 U	<0.00173 U	<0.00187 U	<0.00196 U	<0.00207 U	<0.00196 U	<0.00267 U	<0.00193 U	<0.00228 UJ	<0.00262 U	<0.00184 U
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0368 U	<0.0425 U	<0.0545 U	<0.0345 U	<0.0374 U	<0.0393 U	<0.0414 U	<0.0393 U	<0.0534 U	<0.0386 U	<0.0457 UJ	<0.0524 U	<0.0368 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	100	500	mg/kg	NA	NA	NA	NA	<0.00184 U	<0.00212 U	<0.00272 U	<0.00173 U	<0.00187 U	<0.00196 U	<0.00207 U	<0.00196 U	<0.00267 U	<0.00193 U	<0.00228 UJ	<0.00262 U	<0.00184 U
Dieldrin	60-57-1	0.005	0.1	0.2	1.4	mg/kg	NA	NA	NA	NA	<0.00184 U	<0.00212 U	<0.00272 U	<0.00173 U	<0.00187 U	<0.00196 U	<0.00207 U	<0.00196 U	<0.00267 U	<0.00193 U	<0.00228 UJ	<0.00262 U	<0.00184 U
Endosulfan Sulfate	1031-07-8	2.4	1000	24	200	mg/kg	NA	NA	NA	NA	<0.00184 U	<0.00212 U	<0.00272 U	<0.00173 U	<0.00187 U	<0.00196 U	<0.00207 U	<0.00196 U	<0.00267 U	<0.00193 U	<0.00228 UJ	<0.00262 U	<0.00184 U
Endrin	72-20-8	0.014	0.06	11	89	mg/kg	NA	NA	NA	NA	<0.00184 U	<0.00212 U	<0.00272 U	<0.00173 U	<0.00187 U	<0.00196 U	<0.00207 U	<0.00196 U	<0.00267 U	<0.00193 U	<0.00228 UJ	<0.00262 U	<0.00184 U
Endrin Aldehyde	7421-93-4	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.00184 U	<0.00212 U	<0.00272 U	<0.00173 U	<0.00187 U	<0.00196 U	<0.00207 U	<0.00196 U	<0.00267 U	<0.00193 U	<0.00228 UJ	<0.00262 U	<0.00184 U
Endrin Ketone	53494-70-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.00184 U	<0.00212 U	<0.00272 U	<0.00173 U	<0.00187 U	<0.00196 U	<0.00207 U	<0.00196 U	<0.00267 U	<0.00193 U	<0.00228 UJ	<0.00262 U	<0.00184 U
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	1.3	9.2	mg/kg	NA	NA	NA	NA	<0.00184 U	<0.00212 U	<0.00272 U	<0.00173 U	<0.00187 U	<0.00196 U	<0.00207 U	<0.00196 U	<0.00267 U	<0.00193 U	<0.00228 UJ	<0.00262 U	<0.00184 U
Gamma-Chlordane	5566-34-7	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.00184 U	<0.00212 U	<0.00272 U	<0.00173 U	<0.00187 U	<0.00196 U	<0.00207 U	<0.00196 U	<0.00267 U	<0.00193 U	<0.00228 UJ	<0.00262 U	<0.00184 U
Heptachlor	76-44-8	0.042	0.38	2.1	15	mg/kg	NA	NA	NA	NA	<0.00184 U	<0.00212 U	<0.00272 U	<0.00173 U	<0.00187 U	<0.00196 U	<0.00207 U	<0.00196 U	<0.00267 U	<0.00193 U	<0.00228 UJ	<0.00262 U	<0.00184 U
Heptachlor Epoxide	1024-57-3	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.00184 U	<0.00212 U	<0.00272 U	<0.00173 U	<0.00187 U	<0.00196 U	<0.00207 U	<0.00196 U	<0.00267 U	<0.00193 U	<0.00228 UJ	<0.00262 U	<0.00184 U
Methoxychlor	72-43-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.00184 U	<0.00212 U	<0.00272 U	<0.00173 U	<0.00187 U	<0.00196 U	<0.00207 U	<0.00196 U	<0.00267 U	<0.00193 U	<0.00228 UJ	<0.00262 U	<0.00184 U
Toxaphene	8001-35-2	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.184 U	<0.212 U	<0.272 U	<0.173 U	<0.187 U	<0.196 U	<0.207 U	<0.196 U	<0.267 U	<0.193 U	<0.228 UJ	<0.262 U	<0.184 U
Herbicides																							
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0224 U	<0.0259 U	<0.0329 U	<0.0208 U	<0.0229 U	<0.024 U	<0.0253 U	<0.0239 U	<0.0324 U	<0.0233 U	<0.0277 U	<0.0319 U	<0.0226 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0224 U	<0.0259 U	<0.0329 U	<0.0208 U	<0.0229 U	<0.024 U	<0.0253 U	<0.0239 U	<0.0324 U	<0.0233 U	<0.0277 U	<0.0319 U	<0.0226 U
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	100	500	mg/kg	NA	NA	NA	NA	<0.0224 U	<0.0259 U	<0.0329 U	<0.0208 U	<0.0229 U	<0.024 U	<0.0253 U	<0.0239 U	<0.0324 U	<0.0233 U	<0.0277 U	<0.0319 U	<0.0226 U
Polychlorinated Biphenyl																							
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0186 U	<0.0214 U	<0.0275 U	<0.0174 UJ	<0.0189 U	<0.0198 U	<0.0209 U	<0.0198 U	<0.027 U	<0.0195 UJ	<0.0231 UJ	<0.0265 UJ	<0.0186 UJ
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0186 U	<0.0214 U	<0.0275 U	<0.0174 UJ	<0.0189 U	<0.0198 U	<0.0209 U	<0.0198 U	<0.027 U	<0.0195 UJ	<0.0231 UJ	<0.0265 UJ	<0.0186 UJ
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0186 U	<0.0214 U	<0.0275 U	<0.0174 UJ	<0.0189 U	<0.0198 U	<0.0209 U	<0.0198 U	<0.027 U	<0.0195 UJ	<0.0231 UJ	<0.0265 UJ	<0.0186 UJ
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0186 U	<0.0214 U	<0.0275 U	<0.0174 UJ	<0.0189 U	<0.0198 U	0.189	0.41	<0.027 U	<0.0195 UJ	<0.0231 UJ	<0.0265 UJ	<0.0186 UJ
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0186 U	<0.0214 U	<0.0275 U	<0.0174 UJ	<0.0189 U	<0.0198 U	<0.0209 U	<0.0198 U	<0.027 U	<0.0195 UJ	<0.0231 UJ	<0.0265 UJ	<0.0186 UJ
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0186 U	<0.0214 U	<0.0275 U	<0.0174 UJ	<0.0189 U	0.0699	<0.0209 U	<0.0198 U	<0.027 U	<0.0195 UJ	<0.0231 UJ	<0.0265 UJ	<0.0186 UJ
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0186 U	<0.0214 U	<0.0275 U	0.446 J	<0.0189 U	<0.0198 U	0.153	0.0849	<0.027 U	<0.0195 UJ	<0.0231 UJ	<0.0265 UJ	0.0401 J
Total PCBs	1336-36-3	**0.1**	3.2	1	1	mg/kg	NA	NA	NA	NA	<0.0186 U	<0.0214 U	<0.0275 U	**0.446 J**	<0.0189 U	0.0699	**0.341**	**0.495**	<0.027 U	<0.0195 UJ	<0.0231 UJ	<0.0265 UJ	0.0401 J
Metals																							
Aluminum	7429-90-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	6,160	7,120	22,600	6,930	6,620	6,320	7,910	9,770	17,800	6,450	6,040	19,500	7,640
Antimony	7440-36-0	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<2.85 U	<3.28 U	<4.21 U	13.5	<2.89 U	<3.02 U	<3.2 U	<3.03 U	<4.08 U	<2.95 U	<3.52 U	<4.04 U	<2.85 UJ
Arsenic	7440-38-2	**13**	16	16	16	mg/kg	NA	NA	NA	NA	<1.71 U	2.38	6.97	5.24	12.2	9	8.11	5.73	6.81	7.99	8.26	2.54	6.07
Barium	7440-39-3	**350**	820	400	400	mg/kg	NA	NA	NA	NA	73.9	210	67.3	**817**	**454**	**484**	**500**	236	54.5	**356**	**539**	67	99.4
Beryllium	7440-41-7	7.2	47	72	590	mg/kg	NA	NA	NA	NA	<0.057 U	<0.066 U	<0.084 U	<0.053 U	<0.058 U	<0.06 U	<0.064 U	<0.061 U	<0.082 U	<0.059 U	0.087	<0.081 U	<0.057 U
Cadmium	7440-43-9	**2.5**	7.5	4.3	9.3	mg/kg	NA	NA	NA	NA	0.467	<0.394 U	<0.505 U	**64.7**	2.37	2.25	**4.78**	0.838	1.08	1.78	0.696	<0.485 U	0.83 J
Calcium	7440-70-2	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	31,400 J	43,500 J	3,890 J	35,400	19,100	26,000	35,900	9,790	8,170	77,800 J	6,610 J	2,710 J	58,500
Chromium, Hexavalent	18540-29-9	1	19	110	400	mg/kg	NA	NA	NA	NA	<0.57 U	<0.657 U	<0.842 U	<0.527 U	<0.579 U	<0.603 U	<0.64 U	<0.605 U	<0.815 U	<0.589 U	<0.703 U	<0.808 U	<0.57 U
Chromium, Total	7440-47-3	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	18.4	25.3	42.7	51.6	24.8	43.4	40.1	19.5	33.5	18.2	22.1	38.9	16.4
Chromium, Trivalent	16065-83-1	**30**	NS	180	1500	mg/kg	NA	NA	NA	NA	18.4	25.3	**42.7**	**51.6**	24.8	**43.4**	**40.1**	19.5	**33.5**	18.2	22.1	18.9	16.4
Cobalt	7440-48-4	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	4.47	5.45	16.2	9.65	8.52	8.48	9.41	9.47	12.2	5.5	9.02	9.95	5.92
Copper	7440-50-8	**50**	1720	270	270	mg/kg	NA	NA	NA	NA	32.3	**51.4**	24.7	**1,730**	**424**	**230**	**1,090**	**77.5**	15.6	**181**	**161**	16.3	**73.9 J**
Cyanide	57-12-5	27	40	27	27	mg/kg	NA	NA	NA	NA	<0.57 U	<0.657 U	<0.842 U	<0.527 U	<0.579 U	<0.603 U	<0.64 U	1.53	<0.815 U	<0.589 U	<0.703 U	<0.808 U	<0.57 U
Iron	7439-89-6	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	10,000 J	14,600 J	37,500 J	38,800	62,600	39,200	68,800	26,700	31,900	20,900 J	16,700 J	28,100 J	15,200
Lead	7439-92-1	**63**	450	400	1000	mg/kg	NA	NA	NA	NA	**73.7**	**175**	28.5	**1,810**	**621**	**875**	**1,030**	**2,060**	15	**652**	**731**	14.3	**178**
Magnesium	7439-95-4	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	6,840	3,390	10,300	11,900	2,790	3,710	10,100	2,300	8,450	36,800	1,440	7,750	6,200 J
Manganese	7439-96-5	**1600**	2000	2000	10000	mg/kg	NA	NA	NA	NA	178	190	1,120	357	614	497	491	262	998	290	147	382	237
Mercury	7439-97-6	**0.18**	0.73	0.81	2.8	mg/kg	NA	NA	NA	NA	0.061	0.0752	**0.658**	**2.78**	**0.199**	**0.26**	**0.28**	**1.41**	0.104	0.071	**0.78**	0.163	0.149
Nickel	7440-02-0	**30**	130	310	310	mg/kg	NA	NA	NA	NA	11.5	15	**33.6**	**83.9 J**	7.93 J	20.1 J	15.9 J	14.6 J	16.1 J	16.9	24.2	24.7	13.7
Potassium	7440-09-7	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	727	940	5,360	738	856	930	1,220	782	3,310	843	949	4,540	1,020
Selenium	7782-49-2	**3.9**	4	180	1500	mg/kg	NA	NA	NA	NA	<2.85 U	<3.28 U	<4.21 U	<2.63 U	<2.89 U	<3.02 U	<3.2 U	<3.03 U	<4.08 U	<2.95 U	<3.52 U	<4.04 U	<2.85 U
Silver	7440-22-4	**2**	8.3	180	1500	mg/kg	NA	NA	NA	NA	<0.57 U	<0.657 U	<0.842 U	**3.46**	0.732	<0.603 U	0.796	<0.605 U	<0.815 U	0.909	<0.703 U	<0.808 U	<0.57 UJ
Sodium	7440-23-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	614	236	3,270	12,500	1,940	2,040	2,480	881	2,240	1,010	1,220	1,700	184 J
Thallium	7440-28-0	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<2.85 U	<3.28 U	<4.21 U	<2.63 U	<2.89 U	<3.02 U	<3.2 U	<3.03 U	<4.08 U	<2.95 U	<3.52 U	<4.04 U	<2.85 U
Vanadium	7440-62-2	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	19.5	17.3	54.5	36.9	19.4	25.4	25.5	25.9	44.5	26.1	25.5	51	22.3
Zinc	7440-66-6	**109**	2480	10000	10000	mg/kg	NA	NA	NA	NA	**312**	102	94.4	**7,420 D**	**760**	**675**	**1,080**	**264**	73.1	**402**	**575**	64.2	**177 J**
General Chemistry																							
Solids, Percent	SOLID	NS	NS	NS	NS	Percent	82.9	63.4	90.1	69.5	87.7	76.2	59.4	94.9	86.4	82.9	78.1	82.6	61.3	84.8	71.1	61.9	87.7
Perfluorooctanoic acids																							
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000276 U	<0.000243 U	<0.000411 U	<0.000242 U	<0.000273 U	<0.0003 U	<0.000298 U	<0.000294 U	<0.000321 U	<0.000282 U	<0.000297 U	<0.000355 U	0.000378
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOSA	2355-31-9	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000276 U	<0.000243 U	<0.000411 U	<0.000242 U	<0.000273 U	<0.0003 U	<0.000298 U	<0.000294 U	<0.000321 U	<0.000282 U	<0.000297 U	<0.000355 U	<0.000262 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000276 U	<0.000243 U	<0.000411 U	<0.000242 U	<0.000273 U	<0.0003 U	<0.000298 U	<0.000294 U	<0.000321 U	<0.000282 U	<0.000297 U	<0.000355 U	<0.000262 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000276 U	0.000683	<0.000411 U	0.00047	<0.000273 U	0.00035	0.000321	<0.000294 U	<0.000321 U	<0.000282 U	<0.000297 U	<0.000355 U	0.000757
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000276 U	<0.000243 U	<0.000411 U	<0.000242 U	<0.000273 U	<0.0003 U	<0.000298 U	<0.000294 U	<0.000321 U	<0.000282 U	<0.000297 U	<0.000355 U	<0.000262 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000276 U	<0.000243 U	<0.000411 U	<0.000242 U	<0.000273 U	<0.0003 U	<0.000298 U	<0.000294 U	<0.000321 U	<0.000282 U	<0.000297 U	<0.000355 U	<0.000262 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000276 U	<0.000243 U	<0.000411 U	<0.000242 U	<0.000273 U	<0.0003 U	<0.000298 U	<0.000294 U	<0.000321 U	<0.000282 U	<0.000297 U	<0.000355 U	<0.000262 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000276 U	<0.000243 U	<0.000411 U	<0.000242 U	<0.000273 U	<0.0003 U	<0.000298 U	<0.000294 U	<0.000321 U	<0.000282 U	<0.000297 U	<0.000355 U	<0.000262 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000276 U	<0.000243 U	<0.000411 U	<0.000242 U	<0.000273 U	<0.0003 U	<0.000298 U	<0.000294 U	<0.000321 U	<0.000282 U	<0.000297 U	0.00068	<0.000262 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000276 U	<0.000243 U	<0.000411 U	<0.000242 U	<0.000273 U	<0.0003 U	<0.000298 U	<0.000294 U	<0.000321 U	<0.000282 U	<0.000297 U	<0.000355 U	<0.000262 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000276 U	<0.000243 U	<0.000411 U	<0.000242 U	<0.000273 U	<0.0003 U	<0.000298 U	<0.000294 U	<0.000321 U	<0.000282 U	<0.000297 U	<0.000355 U	<0.000262 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000276 U	<0.000243 U	<0.000411 U	<0.000242 U	<0.000273 U	<0.0003 U	<0.000298 U	<0.000294 U	<0.000321 U	<0.000282 U	<0.000297 U	<0.000355 U	<0.000262 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000276 U	<0.000243 U	<0.000411 U	<0.000242 U	<0.000273 U	<0.0003 U	<0.000298 U	<0.000294 U	<0.000321 U	<0.000282 U	<0.000297 U	<0.000355 U	<0.000262 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.044	0.44	mg/kg	NA	NA	NA	NA	<0.000276 U	0.000299	<0.000411 U	0.000479	<0.000273 U	<0.0003 U	0.000565	<0.000294 U	<0.000321 U	<0.000282 U	<0.000297 U	<0.000355 U	0.000691
Perfluorooctanoic Acid (PFOA)	335-67-1	0.00066	0.0011	0.033	0.5	mg/kg	NA	NA	NA	NA	<0.000276 U	<0.000243 U	<0.000411 U	<0.000242 U	<0.000273 U	<0.0003 U	<0.000298 U	<0.000294 U	<0.000321 U	<0.000282 U	<0.000297 U	<0.000355 U	<0.000262 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000276 U	<0.000243 U	<0.000411 U	<0.000242 U	<0.000273 U	<0.0003 U	<0.000298 U	<0.000294 U	<0.000321 U	0.000785	0.000298	<0.000355 U	0.000343
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000276 U	<0.000243 U	<0.000411 U	<0.000242 U	<0.000273 U	<0.0003 U	<0.000298 U	<0.000294 U	<0.000321 U	<0.000282 U	<0.000297 U	<0.000355 U	<0.000262 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000276 U	<0.000243 U	<0.000411 U	<0.000242 U	<0.000273 U	<0.0003 U	<0.000298 U	<0.000294 U	<0.000321 U	<0.000282 U	<0.000297 U	<0.000355 U	<0.000262 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000276 U	<0.000243 U	<0.000411 U	<0.000242 U	<0.000273 U	<0.0003 U	<0.000298 U	<0.000294 U	<0.000321 U	<0.000282 U	<0.000297 U	<0.000355 U	<0.000262 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FTS	39108-34-4	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000276 U	<0.000243 U	<0.000411 U	<0.000242 U	<0.000273 U	<0.0003 U	<0.000298 U	<0.000294 U	<0.000321 U	<0.000282 U	<0.000297 U	<0.000355 U	<0.000262 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FTS	27619-97-2	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000276 U	<0.000243 U	<0.000411 U	<0.000242 U	<0.000273 U	<0.0003 U	<0.000298 U	<0.000294 U	<0.000321 U	<0.000282 U	<0.000297 U	<0.000355 U	<0.000262 U

Notes provided on Page 10.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3A
Remedial Investigation Report
Soil Sample Analytical Results - Block 1826/1827 (E)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	E-SB105	E-SB105	E-SB106	E-SB106	E-SB107	E-SB107	E-SB107	E-SB107	E-SB107	E-SB108	E-SB108	E-SB108	E-SB109	E-SB109
						Sample Name	E-SB105_6-8	E-SB105_10-12	E-SB106_0-2	E-SB106_12-14	E-SB107_0-2	SBDUP02_091321	E-SB106_6-8	E-SB107_6-8	E-SB107_11-12	E-SB108_0-2	E-SB108_7.5-8.5	E-SB108_11-12	E-SB109_7-8	E-SB109_11-12
						Sample Date	09/13/2021	09/13/2021	09/13/2021	09/13/2021	09/13/2021	09/13/2021	09/13/2021	09/13/2021	09/13/2021	09/08/2021	09/08/2021	09/08/2021	09/10/2021	09/10/2021
						Sample Depth	6-8	10-12	0-2	12-14	0-2	0-2	6-8	6-8	11-12	0-2	7.5-8.5	11-12	7-8	11-12
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																				
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	500	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
1,1-Dichloroethane	75-34-3	0.27	0.27	26	240	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
1,1-Dichloroethene	75-35-4	0.33	0.33	100	500	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
1,2,4-Trimethylbenzene	95-63-6	**3.6**	3.6	52	190	mg/kg	0.0045 J	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	0.034	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	500	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
1,2-Dichloroethane	107-06-2	**0.02**	0.02	3.1	30	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	52	190	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	0.018	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	280	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	130	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.057 U	<0.078 U	<0.05 U	<0.064 U	<0.047 U	<0.044 U	<0.047 U	<0.061 U	<0.093 U	<0.06 U	<0.053 U	<0.089 U	<0.057 U	<0.083 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
Acetone	67-64-1	**0.05**	0.05	100	500	mg/kg	**0.052**	0.029	<0.005 U	0.032	<0.013 U	0.025 J	0.026	0.02	0.044	<0.006 U	0.039	0.043	0.025	0.05
Acrolein	107-02-8	NS	NS	NS	NS	mg/kg	<0.0057 U	<0.0078 U	<0.005 U	<0.0064 U	<0.0047 U	<0.0044 U	<0.0047 U	<0.0061 U	<0.0093 U	<0.006 U	<0.0053 U	<0.0089 U	<0.0057 U	<0.0083 U
Acrylonitrile	107-13-1	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
Benzene	71-43-2	**0.06**	0.06	4.8	44	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
Bromochloromethane	74-97-5	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
Bromodichloromethane	75-27-4	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
Bromoform	75-25-2	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
Bromomethane	74-83-9	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
Carbon Disulfide	75-15-0	NS	NS	NS	NS	mg/kg	0.005 J	0.0078	<0.0025 U	0.005 J	0.0024 J	0.0046	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	0.003 J	0.0053 J	<0.0028 U	0.011
Carbon Tetrachloride	56-23-5	0.76	0.76	2.4	22	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
Chlorobenzene	108-90-7	1.1	1.1	100	500	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
Chloroethane	75-00-3	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 UJ
Chloroform	67-66-3	0.37	0.37	49	350	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
Chloromethane	74-87-3	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	100	500	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
Cyclohexane	110-82-7	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	0.0023 J	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
Dibromochloromethane	124-48-1	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
Dibromomethane	74-95-3	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 UJ
Ethylbenzene	100-41-4	**1**	1	41	390	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	0.0042 J	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
M,P-Xylene	179601-23-1	NS	NS	NS	NS	mg/kg	0.0079 J	<0.0078 U	<0.005 U	<0.0064 U	<0.0047 U	<0.0044 U	<0.0047 U	<0.0061 U	<0.0093 U	<0.006 U	<0.0053 U	<0.0089 U	<0.0057 U	<0.0083 U
Methyl Acetate	79-20-9	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	**0.12**	0.12	100	500	mg/kg	0.0032 J	0.007 J	<0.0025 U	0.0079	0.0029 J	0.0061	0.0066	0.0048 J	0.01	<0.003 U	<0.0027 U	0.0068 J	0.0067	0.01
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
Methylcyclohexane	108-87-2	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	0.013	0.0089	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
Methylene Chloride	75-09-2	0.05	0.05	100	500	mg/kg	<0.0057 U	<0.0078 U	<0.01 U	<0.0064 U	<0.0047 U	<0.0044 U	<0.0095 U	<0.0061 U	<0.0093 U	<0.006 U	<0.0053 U	<0.0089 U	<0.0057 U	<0.0083 U
n-Butylbenzene	104-51-8	12	12	100	500	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
n-Propylbenzene	103-65-1	3.9	3.9	100	500	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	0.01	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
Sec-Butylbenzene	135-98-8	11	11	100	500	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	0.0024 J	0.0022 J	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
Styrene	100-42-5	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 UJ	<0.0022 UJ	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
T-Butylbenzene	98-06-6	5.9	5.9	100	500	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 UJ	<0.0022 UJ	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
Tert-Butyl Alcohol	75-65-0	NS	NS	NS	NS	mg/kg	<0.0028 U	0.007 J	<0.0025 UJ	<0.0032 UJ	<0.0024 U	<0.0022 U	<0.0024 UJ	<0.0031 UJ	<0.0047 UJ	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 UJ	<0.0041 U
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	100	500	mg/kg	<0.0028 U	0.023 J	<0.0025 U	0.0041 J	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	0.0081 J	<0.003 U	<0.0027 U	0.0056 J	<0.0028 U	0.0097
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	19	150	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 UJ	<0.0022 UJ	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
Toluene	108-88-3	**0.7**	0.7	100	500	mg/kg	0.0042 J	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
Total Xylenes	1330-20-7	**0.26**	1.6	100	500	mg/kg	<0.0085 U	<0.012 U	<0.0075 U	<0.0095 U	<0.0071 U	<0.0066 U	<0.0071 U	<0.0092 U	<0.014 U	<0.009 U	<0.008 U	<0.013 U	<0.0085 U	<0.012 U
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	100	500	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
Trichloroethene (TCE)	79-01-6	0.47	0.47	21	200	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U
Vinyl Chloride	75-01-4	0.02	0.02	0.9	13	mg/kg	<0.0028 U	<0.0039 U	<0.0025 U	<0.0032 U	<0.0024 U	<0.0022 U	<0.0024 U	<0.0031 U	<0.0047 U	<0.003 U	<0.0027 U	<0.0044 U	<0.0028 U	<0.0041 U

Notes provided on Page 10.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3A
Remedial Investigation Report
Soil Sample Analytical Results - Block 1826/1827 (E)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	E-SB105	E-SB105	E-SB106	E-SB106	E-SB107	E-SB107	E-SB107	E-SB107	E-SB107	E-SB108	E-SB108	E-SB108	E-SB109	E-SB109
						Sample Name	E-SB105_6-8	E-SB105_10-12	E-SB106_0-2	E-SB106_12-14	E-SB107_0-2	SBDUP02_091321	E-SB106_6-8	E-SB107_6-8	E-SB107_11-12	E-SB108_0-2	E-SB108_7.5-8.5	E-SB108_11-12	E-SB109_7-8	E-SB109_11-12
						Sample Date	09/13/2021	09/13/2021	09/13/2021	09/13/2021	09/13/2021	09/13/2021	09/13/2021	09/13/2021	09/13/2021	09/08/2021	09/08/2021	09/08/2021	09/10/2021	09/10/2021
						Sample Depth	6-8	10-12	0-2	12-14	0-2	0-2	6-8	6-8	11-12	0-2	7.5-8.5	11-12	7-8	11-12
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																				
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	NS	mg/kg	<0.115 U	<0.134 U	<0.0991 U	<0.156 U	<0.0885 U	<0.09 U	<0.0989 U	<0.0964 U	<0.156 U	<0.0877 U	<0.107 U	<0.123 U	<0.103 U	<0.13 U
1,2-Diphenylhydrazine	122-66-7	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.019 U	<0.0192 U	<0.0192 U	<0.0198 U	<0.0196 U	<0.0196 U	<0.0185 U	<0.0198 U	<0.0192 U	<0.0194 U	<0.0183 U	<0.0192 U	NA	NA
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	NS	mg/kg	<0.115 U	<0.134 U	<0.0991 U	<0.156 U	<0.0885 U	<0.09 U	<0.0989 U	<0.0964 U	<0.156 U	<0.0877 U	<0.107 U	<0.123 U	<0.103 U	<0.13 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	NS	mg/kg	<0.115 U	<0.134 U	<0.0991 U	<0.156 U	<0.0885 U	<0.09 U	<0.0989 U	<0.0964 U	<0.156 U	<0.0877 U	<0.107 U	<0.123 U	<0.103 U	<0.13 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
2-Chlorophenol	95-57-8	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	0.0905 D	0.0662 JD	0.155 D	0.619 D	<0.0782 U	0.0603 JD	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	500	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
2-Nitroaniline	88-74-4	NS	NS	NS	NS	mg/kg	<0.115 U	<0.134 U	<0.0991 U	<0.156 U	<0.0885 U	<0.09 U	<0.0989 U	<0.0964 U	<0.156 U	<0.0877 U	<0.107 U	<0.123 U	<0.103 U	<0.13 U
2-Nitrophenol	88-75-5	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	0.33	0.33	100	500	mg/kg	0.0652 JD	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	0.104 D	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
3-Nitroaniline	99-09-2	NS	NS	NS	NS	mg/kg	<0.115 U	<0.134 U	<0.0991 U	<0.156 U	<0.0885 U	<0.09 U	<0.0989 U	<0.0964 U	<0.156 U	<0.0877 U	<0.107 U	<0.123 U	<0.103 U	<0.13 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	NS	mg/kg	<0.115 U	<0.134 U	<0.0991 U	<0.156 U	<0.0885 U	<0.09 U	<0.0989 U	<0.0964 U	<0.156 U	<0.0877 U	<0.107 U	<0.123 U	<0.103 U	<0.13 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
4-Chloroaniline	106-47-8	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
4-Nitroaniline	100-01-6	NS	NS	NS	NS	mg/kg	<0.115 U	<0.134 U	<0.0991 U	<0.156 U	<0.0885 U	<0.09 U	<0.0989 U	<0.0964 U	<0.156 U	<0.0877 U	<0.107 U	<0.123 U	<0.103 U	<0.13 U
4-Nitrophenol	100-02-7	NS	NS	NS	NS	mg/kg	<0.115 U	<0.134 U	<0.0991 U	<0.156 U	<0.0885 U	<0.09 U	<0.0989 U	<0.0964 U	<0.156 U	<0.0877 U	<0.107 U	<0.123 U	<0.103 U	<0.13 U
Acenaphthene	83-32-9	20	98	100	500	mg/kg	0.106 JD	<0.0671 U	<0.0497 U	<0.0784 U	0.12 J	1.11 J	<0.0496 U	0.739 D	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
Acenaphthylene	208-96-8	100	107	100	500	mg/kg	0.0588 JD	<0.0671 U	<0.0497 U	<0.0784 U	0.2 J	0.064 J	<0.0496 U	0.186 D	<0.0782 U	0.0884 D	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
Acetophenone	98-86-2	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	NS	NS	NS	mg/kg	<0.23 U	<0.268 U	<0.198 U	<0.313 U	<0.177 U	<0.18 U	<0.198 U	<0.193 U	<0.312 U	<0.176 U	<0.215 U	<0.246 U	<0.206 U	<0.261 U
Anthracene	120-12-7	100	1000	100	500	mg/kg	0.253 D	<0.0671 U	<0.0497 U	<0.0784 U	0.479 J	0.243 J	<0.0496 U	0.372 D	<0.0782 U	0.128 D	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
Atrazine	1912-24-9	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
Benzaldehyde	100-52-7	NS	NS	NS	NS	mg/kg	0.0689 JD	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	0.0547 JD	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
Benzidine	92-87-5	NS	NS	NS	NS	mg/kg	<0.23 U	<0.268 U	<0.198 U	<0.313 U	<0.177 U	<0.18 U	<0.198 U	<0.193 U	<0.312 U	<0.176 U	<0.215 U	<0.246 U	<0.206 U	<0.261 U
Benzo(a)anthracene	56-55-3	**1**	1	1	5.6	mg/kg	0.874 D	<0.0671 U	0.114 D	<0.0784 U	0.884 J	0.143 J	0.0791 JD	0.316 D	<0.0782 U	0.576 D	0.0548 JD	<0.0615 U	<0.0516 U	<0.0653 U
Benzo(a)pyrene	50-32-8	**1**	22	1	1	mg/kg	0.802 D	<0.0671 U	0.129 D	<0.0784 U	0.821 J	0.173 J	0.184 D	0.254 D	<0.0782 U	0.776 D	0.0651 JD	<0.0615 U	<0.0516 U	<0.0653 U
Benzo(b)fluoranthene	205-99-2	**1**	1.7	1	5.6	mg/kg	0.713 D	<0.0671 U	0.109 D	<0.0784 U	0.637 J	0.148 J	0.182 D	0.19 D	<0.0782 U	0.813 D	0.0565 JD	<0.0615 U	<0.0516 U	<0.0653 U
Benzo(g,h,i)Perylene	191-24-2	100	1000	100	500	mg/kg	0.622 D	<0.0671 U	0.106 D	<0.0784 U	0.308 J	0.0943 J	0.112 D	0.123 D	<0.0782 U	0.544 D	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	3.9	56	mg/kg	0.599 D	<0.0671 U	0.111 D	<0.0784 U	0.685 J	0.125 J	0.134 D	0.169 D	<0.0782 U	0.607 D	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
Benzoic Acid	65-85-0	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
Benzyl Alcohol	100-51-6	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	0.494 J	<0.0451 UJ	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	0.543 D	<0.0784 U	0.849 J	0.268 J	<0.0496 U	<0.0483 U	<0.0782 U	0.0477 JD	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
Caprolactam	105-60-2	NS	NS	NS	NS	mg/kg	<0.115 U	<0.134 U	<0.0991 U	<0.156 U	<0.0885 U	<0.09 U	<0.0989 U	<0.0964 U	<0.156 U	<0.0877 U	<0.107 U	<0.123 U	<0.103 U	<0.13 U
Carbazole	86-74-8	NS	NS	NS	NS	mg/kg	0.0707 JD	<0.0671 U	<0.0497 U	<0.0784 U	0.0679 JD	<0.0451 U	<0.0496 U	0.0639 JD	<0.0782 U	0.0687 JD	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
Chrysene	218-01-9	**1**	1	3.9	56	mg/kg	0.873 D	<0.0671 U	0.109 D	<0.0784 U	0.817 J	0.284 J	0.128 D	0.281 D	<0.0782 U	0.731 D	0.0557 JD	<0.0615 U	<0.0516 U	<0.0653 U
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.33	0.56	mg/kg	0.225 D	<0.0671 U	<0.0497 U	<0.0784 U	0.11 D	0.0489 JD	<0.0496 U	0.0531 JD	<0.0782 U	0.165 D	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
Dibenzofuran	132-64-9	7	210	59	350	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	0.108 J	0.363 J	<0.0496 U	0.341 D	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
Dibutyl phthalate	84-74-2	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	0.0526 JD	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
Diethyl phthalate	84-66-2	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
Dimethyl phthalate	131-11-3	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
Dioctyl phthalate	117-84-0	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
Diphenylamine	122-39-4	NS	NS	NS	NS	mg/kg	<0.115 U	<0.134 U	<0.0991 U	<0.156 U	<0.0885 U	<0.09 U	<0.0989 U	<0.0964 U	<0.156 U	<0.0877 U	<0.107 U	<0.123 U	<0.103 U	<0.13 U
Fluoranthene	206-44-0	**100**	1000	100	500	mg/kg	1.95 D	<0.0671 U	0.149 D	<0.0784 U	1.84 J	0.358 J	0.121 D	0.69 D	<0.0782 U	1.27 D	0.0651 JD	<0.0615 U	<0.0516 U	<0.0653 U
Fluorene	86-73-7	30	386	100	500	mg/kg	0.0891 JD	<0.0671 U	<0.0497 U	<0.0784 U	0.224 J	1.04 J	<0.0496 U	0.665 D	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
Hexachlorobenzene	118-74-1	0.33	3.2	1.2	6	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
Hexachloroethane	67-72-1	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	0.5	5.6	mg/kg	**0.718 D**	<0.0671 U	0.112 D	<0.0784 U	0.365 J	0.0921 J	0.104 D	0.144 D	<0.0782 U	**0.697 D**	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
Isophorone	78-59-1	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
Naphthalene	91-20-3	12	12	100	500	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	0.146 D	0.0712 JD	0.068 JD	0.378 D	<0.0782 U	0.0582 JD	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
Nitrobenzene	98-95-3	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
n-Nitrosodimethylamine	62-75-9	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	NS	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	6.7	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
Phenanthrene	85-01-8	**100**	1000	100	500	mg/kg	1.31 D	<0.0671 U	0.0578 JD	<0.0784 U	1.25 J	0.717 J	0.0625 JD	1.37 D	<0.0782 U	0.522 D	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
Phenol	108-95-2	0.33	0.33	100	500	mg/kg	<0.0576 U	<0.0671 U	<0.0497 U	<0.0784 U	<0.0444 U	<0.0451 U	<0.0496 U	<0.0483 U	<0.0782 U	<0.044 U	<0.0537 U	<0.0615 U	<0.0516 U	<0.0653 U
Pyrene	129-00-0	**100**	1000	100	500	mg/kg	1.89 D	<0.0671 U	0.191 D	<0.0784 U	1.72 J	0.336 J	0.181 D	0.752 D	<0.0782 U	1.01 D	0.0634 JD	<0.0615 U	<0.0516 U	<0.0653 U
Pyridine	110-86-1	NS	NS	NS	NS	mg/kg	<0.23 U	<0.268 U	<0.198 U	<0.313 U	<0.177 U	<0.18 U	<0.198 U	<0.193 U	<0.312 U	<0.176 U	<0.215 U	<0.246 U	<0.206 U	<0.261 U

Notes provided on Page 10.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3A
Remedial Investigation Report
Soil Sample Analytical Results - Block 1826/1827 (E)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	E-SB105	E-SB105	E-SB106	E-SB106	E-SB107	E-SB107	E-SB107	E-SB107	E-SB107	E-SB108	E-SB108	E-SB108	E-SB109	E-SB109
						Sample Name	E-SB105_6-8	E-SB105_10-12	E-SB106_0-2	E-SB106_12-14	E-SB107_0-2	SBDUP02_091321	E-SB106_6-8	E-SB107_6-8	E-SB107_11-12	E-SB108_0-2	E-SB108_7.5-8.5	E-SB108_11-12	E-SB109_7-8	E-SB109_11-12
						Sample Date	09/13/2021	09/13/2021	09/13/2021	09/13/2021	09/13/2021	09/13/2021	09/13/2021	09/13/2021	09/13/2021	09/08/2021	09/08/2021	09/08/2021	09/10/2021	09/10/2021
						Sample Depth	6-8	10-12	0-2	12-14	0-2	0-2	6-8	6-8	11-12	0-2	7.5-8.5	11-12	7-8	11-12
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Petroleum Hydrocarbons																				
Total Petroleum Hydrocarbons	TPH	NS	NS	NS	NS	UNKNOWN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides																				
4,4'-DDD	72-54-8	0.0033	14	13	92	mg/kg	<0.00227 U	<0.00265 U	<0.00194 U	<0.0031 U	<0.00173 U	<0.00176 U	<0.00196 U	<0.00187 UJ	<0.00309 UJ	<0.00175 U	<0.00212 U	<0.00247 U	NA	NA
4,4'-DDE	72-55-9	0.0033	17	8.9	62	mg/kg	<0.00227 U	<0.00265 U	<0.00194 U	<0.0031 U	<0.00173 U	<0.00176 U	<0.00196 U	<0.00187 UJ	<0.00309 UJ	<0.00175 U	<0.00212 U	<0.00247 U	NA	NA
4,4'-DDT	50-29-3	0.0033	136	7.9	47	mg/kg	<0.00227 U	<0.00265 U	<0.00194 U	<0.0031 U	<0.00173 U	<0.00176 U	<0.00196 U	<0.00187 UJ	<0.00309 UJ	<0.00175 U	<0.00212 U	<0.00247 U	NA	NA
Aldrin	309-00-2	0.005	0.19	0.097	0.68	mg/kg	<0.00227 U	<0.00265 U	<0.00194 U	<0.0031 U	<0.00173 U	<0.00176 U	<0.00196 U	<0.00187 UJ	<0.00309 UJ	<0.00175 U	<0.00212 U	<0.00247 U	NA	NA
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	0.48	3.4	mg/kg	<0.00227 U	<0.00265 U	<0.00194 U	<0.0031 U	<0.00173 U	<0.00176 U	<0.00196 U	<0.00187 UJ	<0.00309 UJ	<0.00175 U	<0.00212 U	<0.00247 U	NA	NA
Alpha Chlordane	5103-71-9	0.094	2.9	4.2	24	mg/kg	<0.00227 U	<0.00265 U	0.00883 D	<0.0031 U	<0.00173 U	<0.00176 U	<0.00196 U	<0.00187 UJ	<0.00309 UJ	<0.00175 U	<0.00212 U	<0.00247 U	NA	NA
Alpha Endosulfan	959-98-8	2.4	102	24	200	mg/kg	<0.00227 U	<0.00265 U	<0.00194 U	<0.0031 U	<0.00173 U	<0.00176 U	<0.00196 U	<0.00187 UJ	<0.00309 UJ	<0.00175 U	<0.00212 U	<0.00247 U	NA	NA
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	0.36	3	mg/kg	<0.00227 U	<0.00265 U	<0.00194 U	<0.0031 U	<0.00173 U	<0.00176 U	<0.00196 U	<0.00187 UJ	<0.00309 UJ	<0.00175 U	<0.00212 U	<0.00247 U	NA	NA
Beta Endosulfan	33213-65-9	2.4	102	24	200	mg/kg	<0.00227 U	<0.00265 U	<0.00194 U	<0.0031 U	<0.00173 U	<0.00176 U	<0.00196 U	<0.00187 UJ	<0.00309 UJ	<0.00175 U	<0.00212 U	<0.00247 U	NA	NA
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	NS	mg/kg	<0.0453 U	<0.053 U	0.0667 D	<0.0621 U	<0.0346 U	<0.0353 U	<0.0392 U	<0.0374 UJ	<0.0617 UJ	<0.0351 U	<0.0424 U	<0.0493 U	NA	NA
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	100	500	mg/kg	<0.00227 U	<0.00265 U	<0.00194 U	<0.0031 U	<0.00173 U	<0.00176 U	<0.00196 U	<0.00187 UJ	<0.00309 UJ	<0.00175 U	<0.00212 U	<0.00247 U	NA	NA
Dieldrin	60-57-1	0.005	0.1	0.2	1.4	mg/kg	<0.00227 U	<0.00265 U	<0.00194 U	<0.0031 U	<0.00173 U	<0.00176 U	<0.00196 U	<0.00187 UJ	<0.00309 UJ	<0.00175 U	<0.00212 U	<0.00247 U	NA	NA
Endosulfan Sulfate	1031-07-8	2.4	1000	24	200	mg/kg	<0.00227 U	<0.00265 U	<0.00194 U	<0.0031 U	<0.00173 U	<0.00176 U	<0.00196 U	<0.00187 UJ	<0.00309 UJ	<0.00175 U	<0.00212 U	<0.00247 U	NA	NA
Endrin	72-20-8	0.014	0.06	11	89	mg/kg	<0.00227 U	<0.00265 U	<0.00194 U	<0.0031 U	<0.00173 U	<0.00176 U	<0.00196 U	<0.00187 UJ	<0.00309 UJ	<0.00175 U	<0.00212 U	<0.00247 U	NA	NA
Endrin Aldehyde	7421-93-4	NS	NS	NS	NS	mg/kg	<0.00227 U	<0.00265 U	<0.00194 U	<0.0031 U	<0.00173 U	<0.00176 U	<0.00196 U	<0.00187 UJ	<0.00309 UJ	<0.00175 U	<0.00212 U	<0.00247 U	NA	NA
Endrin Ketone	53494-70-5	NS	NS	NS	NS	mg/kg	<0.00227 U	<0.00265 U	<0.00194 U	<0.0031 U	<0.00173 U	<0.00176 U	<0.00196 U	<0.00187 UJ	<0.00309 UJ	<0.00175 U	<0.00212 U	<0.00247 U	NA	NA
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	1.3	9.2	mg/kg	<0.00227 U	<0.00265 U	<0.00194 U	<0.0031 U	<0.00173 U	<0.00176 U	<0.00196 U	<0.00187 UJ	<0.00309 UJ	<0.00175 U	<0.00212 U	<0.00247 U	NA	NA
Gamma-Chlordane	5566-34-7	NS	NS	NS	NS	mg/kg	<0.00227 U	<0.00265 U	0.0162 D	<0.0031 U	<0.00173 U	<0.00176 U	<0.00196 U	<0.00187 UJ	<0.00309 UJ	<0.00175 U	<0.00212 U	<0.00247 U	NA	NA
Heptachlor	76-44-8	0.042	0.38	2.1	15	mg/kg	<0.00227 U	<0.00265 U	<0.00194 U	<0.0031 U	<0.00173 U	<0.00176 U	<0.00196 U	<0.00187 UJ	<0.00309 UJ	<0.00175 U	<0.00212 U	<0.00247 U	NA	NA
Heptachlor Epoxide	1024-57-3	NS	NS	NS	NS	mg/kg	<0.00227 U	<0.00265 U	<0.00194 U	<0.0031 U	<0.00173 U	<0.00176 U	<0.00196 U	<0.00187 UJ	<0.00309 UJ	<0.00175 U	<0.00212 U	<0.00247 U	NA	NA
Methoxychlor	72-43-5	NS	NS	NS	NS	mg/kg	<0.00227 U	<0.00265 U	<0.00194 U	<0.0031 U	<0.00173 U	<0.00176 U	<0.00196 U	<0.00187 UJ	<0.00309 UJ	<0.00175 U	<0.00212 U	<0.00247 U	NA	NA
Toxaphene	8001-35-2	NS	NS	NS	NS	mg/kg	<0.227 U	<0.265 U	<0.194 U	<0.31 U	<0.173 U	<0.176 U	<0.196 U	<0.187 UJ	<0.309 UJ	<0.175 U	<0.212 U	<0.247 U	NA	NA
Herbicides																				
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	NS	mg/kg	<0.0276 U	<0.0321 U	<0.0238 U	<0.0375 U	<0.0212 U	<0.0216 U	<0.0237 U	<0.0231 U	<0.0374 U	<0.0215 U	<0.0259 U	<0.03 U	NA	NA
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	NS	mg/kg	<0.0276 U	<0.0321 U	<0.0238 U	<0.0375 U	<0.0212 U	<0.0216 U	<0.0237 U	<0.0231 U	<0.0374 U	<0.0215 U	<0.0259 U	<0.03 U	NA	NA
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	100	500	mg/kg	<0.0276 U	<0.0321 U	<0.0238 U	<0.0375 U	<0.0212 U	<0.0216 U	<0.0237 U	<0.0231 U	<0.0374 U	<0.0215 U	<0.0259 U	<0.03 U	NA	NA
Polychlorinated Biphenyl																				
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	NS	mg/kg	<0.0229 UJ	<0.0268 U	<0.0196 U	<0.0313 UJ	<0.0174 U	<0.0178 U	<0.0198 U	<0.0189 UJ	<0.0312 UJ	<0.0177 U	<0.0214 UJ	<0.0249 UJ	NA	NA
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	NS	mg/kg	<0.0229 UJ	<0.0268 U	<0.0196 U	<0.0313 UJ	<0.0174 U	<0.0178 U	<0.0198 U	<0.0189 UJ	<0.0312 UJ	<0.0177 U	<0.0214 UJ	<0.0249 UJ	NA	NA
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	NS	mg/kg	<0.0229 UJ	<0.0268 U	<0.0196 U	<0.0313 UJ	<0.0174 U	<0.0178 U	<0.0198 U	<0.0189 UJ	<0.0312 UJ	<0.0177 U	<0.0214 UJ	<0.0249 UJ	NA	NA
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	NS	mg/kg	<0.0229 UJ	<0.0268 U	<0.0196 U	<0.0313 UJ	<0.0174 U	<0.0178 U	<0.0198 U	<0.0189 UJ	<0.0312 UJ	<0.0177 U	<0.0214 UJ	<0.0249 UJ	NA	NA
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	NS	mg/kg	<0.0229 UJ	<0.0268 U	<0.0196 U	<0.0313 UJ	<0.0174 U	<0.0178 U	<0.0198 U	<0.0189 UJ	<0.0312 UJ	<0.0177 U	<0.0214 UJ	<0.0249 UJ	NA	NA
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	NS	mg/kg	<0.0229 UJ	<0.0268 U	0.127	<0.0313 UJ	<0.0174 U	<0.0178 U	<0.0198 U	<0.0189 UJ	<0.0312 UJ	<0.0177 U	<0.0214 UJ	<0.0249 UJ	NA	NA
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	NS	mg/kg	<0.0229 UJ	<0.0268 U	0.0921	<0.0313 UJ	0.0408	0.0517	0.0524	<0.0189 UJ	<0.0312 UJ	<0.0177 U	<0.0214 UJ	<0.0249 UJ	NA	NA
Total PCBs	1336-36-3	**0.1**	3.2	1	1	mg/kg	<0.0229 UJ	<0.0268 U	**0.219**	<0.0313 UJ	0.0408	0.0517	0.0524	<0.0189 UJ	<0.0312 UJ	<0.0177 U	<0.0214 UJ	<0.0249 UJ	NA	NA
Metals																				
Aluminum	7429-90-5	NS	NS	NS	NS	mg/kg	7,240	12,500	10,500	23,600	5,230 J	8,720	6,900	4,700	26,100	6,310	6,070	14,100	NA	NA
Antimony	7440-36-0	NS	NS	NS	NS	mg/kg	<3.47 U	<4.04 U	<2.99 U	<4.72 U	<2.67 UJ	<2.72 U	<2.99 U	<2.91 U	<4.71 U	<2.7 U	<3.29 U	<3.77 U	NA	NA
Arsenic	7440-38-2	**13**	16	16	16	mg/kg	**16.9**	8.91	8.15	6.59	4.75	9.53	4.35	3.23	7.82	3.79	**18.1**	9.84	NA	NA
Barium	7440-39-3	**350**	820	400	400	mg/kg	**748**	55	195	70.3	47.2 J	151	**493**	205	75.4	64.8	**735**	172	NA	NA
Beryllium	7440-41-7	7.2	47	72	590	mg/kg	<0.069 U	<0.081 U	<0.06 U	<0.094 U	<0.053 U	<0.054 U	<0.06 U	<0.058 U	<0.094 U	<0.054 U	0.207	<0.075 U	NA	NA
Cadmium	7440-43-9	**2.5**	7.5	4.3	9.3	mg/kg	1.38	0.856	**4.78**	1.01	0.902 J	1.14	1.16	0.576	0.629	0.52	**3.77**	0.906	NA	NA
Calcium	7440-70-2	NS	NS	NS	NS	mg/kg	20,900	2,200	69,100	4,080	107,000 J	153,000	65,700	8,750	4,650	37,900	28,800	3,380	NA	NA
Chromium, Hexavalent	18540-29-9	1	19	110	400	mg/kg	<0.694 U	<0.808 U	<0.598 U	<0.944 U	<0.534 UJ	<0.543 U	<0.597 U	<0.582 U	<0.941 U	<0.54 U	<0.657 U	<0.755 U	NA	NA
Chromium, Total	7440-47-3	NS	NS	NS	NS	mg/kg	26	36.7	45	43.4	9.58 J	12.7	36.8	14.7	47.8	13.8	23.5	32.3	NA	NA
Chromium, Trivalent	16065-83-1	**30**	NS	180	1500	mg/kg	26	**36.7**	**45**	23	8.97	11.7	**30.8**	12.6	25.4	13.8	23.5	**32.3**	NA	NA
Cobalt	7440-48-4	NS	NS	NS	NS	mg/kg	9.62	13.1	7.62	14.9	5.6 J	5.51	6.92	6.94	17.3	6.06	8.53	11.7	NA	NA
Copper	7440-50-8	**50**	1720	270	270	mg/kg	**609**	18.3	**140**	20.3	30.7 J	30.7	**206**	**96.8**	20.5	**53.2**	**216**	**83.1**	NA	NA
Cyanide	57-12-5	27	40	27	27	mg/kg	<0.694 U	<0.808 U	1.53	<0.944 U	<0.534 U	<0.543 U	<0.597 U	<0.582 U	<0.941 U	<0.54 U	<0.657 U	<0.755 U	NA	NA
Iron	7439-89-6	NS	NS	NS	NS	mg/kg	44,000	25,500	15,800	38,200	10,700	13,200	19,800	14,000	42,600	16,000	46,600	32,500	NA	NA
Lead	7439-92-1	**63**	450	400	1000	mg/kg	**2,150**	22.9	**268**	23.7	47.9 J	**79**	**732**	**305**	16.8	**87.8**	**1,040**	**271**	NA	NA
Magnesium	7439-95-4	NS	NS	NS	NS	mg/kg	1,150	6,520	15,200	10,800	30,500 J	9,410	9,740	1,920	11,700	18,500 B	2,540 B	5,920 B	NA	NA
Manganese	7439-96-5	**1600**	2000	2000	10000	mg/kg	379	923	365	1,110	195 J	415	298	152	1,340	179	506	695	NA	NA
Mercury	7439-97-6	**0.18**	0.73	0.81	2.8	mg/kg	**0.916**	0.152	**0.539**	**0.197**	0.0756 J	0.0819	0.0592	0.0545	0.0708	0.103	**0.645**	0.111	NA	NA
Nickel	7440-02-0	**30**	130	310	310	mg/kg	**33.8**	17.7	21.8	23 J	**41.4 J**	15.6 J	**64.8 J**	14.6 J	27.5 J	11.3	18.3	22.5	NA	NA
Potassium	7440-09-7	NS	NS	NS	NS	mg/kg	978 B	3,500 B	902 B	4,440	650	1,930	543	1,020	6,000	983	909	3,380	NA	NA
Selenium	7782-49-2	**3.9**	4	180	1500	mg/kg	<3.47 U	<4.04 U	<2.99 U	<4.72 U	**12.6 J**	<2.72 U	<2.99 U	<2.91 U	<4.71 U	<2.7 U	<3.29 U	<3.77 U	NA	NA
Silver	7440-22-4	**2**	8.3	180	1500	mg/kg	1.75	<0.808 U	0.884	<0.944 U	1.28 J	0.814	1.47	<0.582 U	<0.941 U	<0.54 U	<0.657 U	<0.755 U	NA	NA
Sodium	7440-23-5	NS	NS	NS	NS	mg/kg	972	3,540	318	6,610	136 J	496	1,420	571	3,930	81.3	726	1,880	NA	NA
Thallium	7440-28-0	NS	NS	NS	NS	mg/kg	<3.47 U	<4.04 U	<2.99 U	<4.72 U	<2.67 U	<2.72 U	<2.99 U	<2.91 U	<4.71 U	<2.7 U	<3.29 U	<3.77 U	NA	NA
Vanadium	7440-62-2	NS	NS	NS	NS	mg/kg	28.8	46.1	38.8	54	27.5 J	15.2	15.2	23.7	61.4	22.3	24.4	51.3	NA	NA
Zinc	7440-66-6	**109**	2480	10000	10000	mg/kg	**1,030**	83.2	**496**	102	65.3	87.9	**698**	**264**	97.9	103	**1,430**	**244**	NA	NA
General Chemistry																				
Solids, Percent	SOLID	NS	NS	NS	NS	Percent	72.1	61.9	83.6	53	93.6	92	83.7	86	53.1	92.6	76.1	66.2	79.7	62.9
Perfluorooctanoic acids																				
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	NS	NS	NS	mg/kg	<0.000307 U	<0.000373 U	<0.000258 U	<0.000393 U	<0.000247 U	<0.000251 U	<0.000268 U	<0.000273 U	<0.000376 U	<0.000267 U	<0.000317 U	<0.000335 U	NA	NA
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOSA	2355-31-9	NS	NS	NS	NS	mg/kg	<0.000307 U	<0.000373 U	<0.000258 U	<0.000393 U	<0.000247 U	<0.000251 U	<0.000268 U	<0.000273 U	<0.000376 U	<0.000267 U	<0.000317 U	<0.000335 U	NA	NA
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	NS	mg/kg	<0.000307 U	<0.000373 U	<0.000258 U	<0.000393 U	<0.000247 U	<0.000251 U	<0.000268 U	<0.000273 U	<0.000376 U	<0.000267 U	<0.000317 U	<0.000335 U	NA	NA
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	NS	mg/kg	<0.000307 U	<0.000373 U	<0.000258 U	<0.000393 U	0.002	0.00142	0.00156	<0.000273 U	<0.000376 U	<0.000267 U	0.00152	<0.000335 U	NA	NA
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	NS	mg/kg	<0.000307 U	<0.000373 U	<0.000258 U	<0.000393 U	<0.000247 U	<0.000251 U	<0.000268 U	<0.000273 U	<0.000376 U	<0.000267 U	<0.000317 U	<0.000335 U	NA	NA
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	NS	mg/kg	<0.000307 U	<0.000373 U	<0.000258 U	<0.000393 U	<0.000247 U	<0.000251 U	<0.000268 U	<0.000273 U	<0.000376 U	<0.000267 U	<0.000317 U	<0.000335 U	NA	NA
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	NS	mg/kg	<0.000307 U	<0.000373 U	<0.000258 U	<0.000393 U	<0.000247 U	<0.000251 U	<0.000268 U	<0.000273 U	<0.000376 U	<0.000267 U	<0.000317 U	<0.000335 U	NA	NA
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	NS	mg/kg	<0.000307 U	<0.000373 U	<0.000258 U	<0.000393 U	<0.000247 U	<0.000251 U	<0.000268 U	<0.000273 U	<0.000376 U	<0.000267 U	<0.000317 U	<0.000335 U	NA	NA
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	NS	mg/kg	<0.000307 U	<0.000373 U	<0.000258 U	<0.000393 U	<0.000247 U	<0.000251 U	<0.000268 U	<0.000273 U	0.000628	<0.000267 U	<0.000317 U	<0.000335 U	NA	NA
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	NS	mg/kg	<0.000307 U	<0.000373 U	<0.000258 U	<0.000393 U	<0.000247 U	<0.000251 U	<0.000268 U	<0.000273 U	<0.000376 U	<0.000267 U	<0.000317 U	<0.000335 U	NA	NA
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	NS	mg/kg	<0.000307 U	<0.000373 U	<0.000258 U	<0.000393 U	<0.000247 U	0.000354	<0.000268 U	<0.000273 U	<0.000376 U	<0.000267 U	<0.000317 U	<0.000335 U	NA	NA
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	NS	mg/kg	<0.000307 U	<0.000373 U	<0.000258 U	<0.000393 U	<0.000247 U	<0.000251 U	<0.000268 U	<0.000273 U	<0.000376 U	<0.000267 U	<0.000317 U	<0.000335 U	NA	NA
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	NS	mg/kg	<0.000307 U	<0.000373 U	<0.000258 U	<0.000393 U	<0.000247 U	<0.000251 U	<0.000268 U	<0.000273 U	<0.000376 U	<0.000267 U	<0.000317 U	<0.000335 U	NA	NA
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.044	0.44	mg/kg	0.000417	<0.000373 U	0.000588	<0.000393 U	0.000254	<0.000251 U	0.00083	<0.000273 U	<0.000376 U	0.000795	0.000669	<0.000335 U	NA	NA
Perfluorooctanoic Acid (PFOA)	335-67-1	0.00066	0.0011	0.033	0.5	mg/kg	<0.000307 U	<0.000373 U	<0.000258 U	<0.000393 U	<0.000247 U	<0.000251 U	<0.000268 U	<0.000273 U	<0.000376 U	<0.000267 U	<0.000317 U	<0.000335 U	NA	NA
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	NS	mg/kg	<0.000307 U	<0.000373 U	<0.000258 U	<0.000393 U	0.000817	0.000608	<0.000268 U	<0.000273 U	<0.000376 U	<0.000267 U	<0.000317 U	<0.000335 U	NA	NA
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	NS	mg/kg	<0.000307 U	<0.000373 U	<0.000258 U	<0.000393 U	<0.000247 U	<0.000251 U	<0.000268 U	<0.000273 U	<0.000376 U	<0.000267 U	<0.000317 U	<0.000335 U	NA	NA
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	NS	mg/kg	<0.000307 U	<0.000373 U	<0.000258 U	<0.000393 U	<0.000247 U	<0.000251 U	<0.000268 U	<0.000273 U	<0.000376 U	<0.000267 U	<0.000317 U	<0.000335 U	NA	NA
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	NS	mg/kg	<0.000307 U	<0.000373 U	<0.000258 U	<0.000393 U	<0.000247 U	<0.000251 U	<0.000268 U	<0.000273 U	<0.000376 U	<0.000267 U	<0.000317 U	<0.000335 U	NA	NA
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FTS	39108-34-4	NS	NS	NS	NS	mg/kg	<0.000307 U	<0.000373 U	<0.000258 U	<0.000393 U	<0.000247 U	<0.000251 U	<0.000268 U	<0.000273 U	<0.000376 U	<0.000267 U	<0.000317 U	<0.000335 U	NA	NA
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FTS	27619-97-2	NS	NS	NS	NS	mg/kg	<0.000307 U	<0.000373 U	<0.000258 U	<0.000393 U	<0.000247 U	<0.000251 U	<0.000268 U	<0.000273 U	<0.000376 U	<0.000267 U	<0.000317 U	<0.000335 U	NA	NA

Notes provided on Page 10.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3A
Remedial Investigation Report
Soil Sample Analytical Results - Block 1826/1827 (E)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Notes:

CAS - Chemical Abstract Service
NS - No standard
mg/kg - milligram per kilogram
NA - Not analyzed
RL - Reporting limit
<RL - Not detected
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 Unrestricted Use (UU), Protection of Groundwater (PGW), Restricted Use Restricted-Residential (RURR), and Restricted Use Commercial (CU) Soil Cleanup Objectives (SCO).
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).

Qualifiers:

D - The concentration reported is a result of a diluted sample.
B - The analyte was found in the associated analysis batch blank.
J - The analyte was positively identified and the associated numerical value is the approximate concentration of
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.

Exceedance Summary:

10 - Result exceeds Unrestricted Use SCOs
10 - Result exceeds Protection of Groundwater SCOs
10 - Result exceeds Restricted Use Restricted-Residential SCOs
10 - Result exceeds Restricted Use Commercial SCOs

Table 3B
Remedial Investigation Report
Soil Sample Analytical Results - Block 1825 (F)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	F-EP101	F-EP101	F-EP101	F-EP101	F-EP102	F-EP102	F-EP102	F-EP103	F-EP103	F-EP103
						Sample Name	F-EP101_0-2	F-EP101_6-8	DUP03_091621	F-EP101_9-11	F-EP102_0-2	F-EP102_6-8	F-EP102_10-12	F-EP103_0-2	DUP04_092021	F-EP103_7-9
						Sample Date	09/16/2021	09/16/2021	09/16/2021	09/16/2021	09/16/2021	09/16/2021	09/16/2021	09/20/2021	09/20/2021	09/20/2021
						Sample Depth	0-2	6-8	6-8	9-11	0-2	6-8	10-12	0-2	0-2	7-9
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	NS	mg/kg	<0.0047 UJ	<0.31 U	<0.38 UJ	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	500	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	NS	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	NS	NS	NS	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	NS	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
1,1-Dichloroethane	75-34-3	0.27	0.27	26	240	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
1,1-Dichloroethene	75-35-4	0.33	0.33	100	500	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	NS	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	NS	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	NS	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
1,2,4-Trimethylbenzene	95-63-6	3.6	3.6	52	190	mg/kg	<0.0047 U	0.33 JD	<0.38 U	<0.0054 U	0.12	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	NS	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	NS	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	500	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
1,2-Dichloroethane	107-06-2	0.02	0.02	3.1	30	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	NS	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	52	190	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	0.035	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	280	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	130	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.094 U	<6.2 U	<7.6 U	<0.11 U	<0.043 U	<0.06 U	<0.061 U	<0.059 U	<0.056 U	<0.081 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	NS	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
Acetone	67-64-1	**0.05**	0.05	100	500	mg/kg	0.022	<0.62 U	<1.5 U	**0.076**	**0.091**	**0.095**	0.05	0.031	0.039	**0.14**
Acrolein	107-02-8	NS	NS	NS	NS	mg/kg	<0.0094 U	<0.62 U	<0.76 U	<0.011 U	<0.0043 U	<0.006 U	0.0078 J	<0.0059 U	<0.0056 U	<0.0081 U
Acrylonitrile	107-13-1	NS	NS	NS	NS	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
Benzene	71-43-2	**0.06**	0.06	4.8	44	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
Bromochloromethane	74-97-5	NS	NS	NS	NS	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
Bromodichloromethane	75-27-4	NS	NS	NS	NS	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
Bromoform	75-25-2	NS	NS	NS	NS	mg/kg	<0.0047 UJ	<0.31 UJ	<0.38 UJ	<0.0054 UJ	<0.0021 UJ	<0.003 UJ	<0.0031 UJ	<0.0029 U	<0.0028 UJ	<0.004 U
Bromomethane	74-83-9	NS	NS	NS	NS	mg/kg	<0.0047 U	<0.31 UJ	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
Carbon Disulfide	75-15-0	NS	NS	NS	NS	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	0.0087	<0.003 U	<0.0031 U	0.0038 J	<0.0028 U	0.013
Carbon Tetrachloride	56-23-5	0.76	0.76	2.4	22	mg/kg	<0.0047 UJ	<0.31 U	<0.38 UJ	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
Chlorobenzene	108-90-7	1.1	1.1	100	500	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
Chloroethane	75-00-3	NS	NS	NS	NS	mg/kg	<0.0047 UJ	<0.31 UJ	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
Chloroform	67-66-3	0.37	0.37	49	350	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
Chloromethane	74-87-3	NS	NS	NS	NS	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	100	500	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	NS	mg/kg	<0.0047 UJ	<0.31 U	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
Cyclohexane	110-82-7	NS	NS	NS	NS	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	0.012	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
Dibromochloromethane	124-48-1	NS	NS	NS	NS	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
Dibromomethane	74-95-3	NS	NS	NS	NS	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	NS	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
Ethylbenzene	100-41-4	**1**	1	41	390	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	0.02	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 UJ	<0.004 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	NS	mg/kg	<0.0047 U	0.68 D	1 D	<0.0054 U	0.0035 J	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
M,P-Xylene	179601-23-1	NS	NS	NS	NS	mg/kg	<0.0094 U	<0.62 U	<0.76 U	<0.011 U	0.097	<0.006 U	<0.0061 U	<0.0059 U	<0.0056 U	<0.0081 U
Methyl Acetate	79-20-9	NS	NS	NS	NS	mg/kg	<0.0047 U	0.56 JD	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	**0.12**	0.12	100	500	mg/kg	<0.0047 U	<0.31 U	<0.38 U	0.017	0.019	0.028	0.011	0.0053 J	0.0046 J	0.037
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	NS	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
Methylcyclohexane	108-87-2	NS	NS	NS	NS	mg/kg	<0.0047 U	5 D	7.6 D	<0.0054 U	0.012	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	0.0081
Methylene Chloride	75-09-2	**0.05**	0.05	100	500	mg/kg	0.022 J	<0.62 U	<0.76 U	<0.022 U	<0.0085 U	<0.012 U	<0.12 U	0.01 J	0.05 J	<0.016 U
n-Butylbenzene	104-51-8	12	12	100	500	mg/kg	<0.0047 U	4.1 D	5.2 D	<0.0054 UJ	0.0099 J	<0.003 UJ	<0.0031 UJ	<0.0029 U	<0.0028 U	0.0062 J
n-Propylbenzene	103-65-1	**3.9**	3.9	100	500	mg/kg	<0.0047 U	3.2 D	**4.2 D**	<0.0054 U	0.013	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	NS	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	0.039	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	NS	NS	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
Sec-Butylbenzene	135-98-8	11	11	100	500	mg/kg	<0.0047 U	2.2 D	3.6 D	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
Styrene	100-42-5	NS	NS	NS	NS	mg/kg	<0.0047 UJ	<0.31 U	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
T-Butylbenzene	98-06-6	5.9	5.9	100	500	mg/kg	<0.0047 UJ	<0.31 U	<0.38 UJ	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
Tert-Butyl Alcohol	75-65-0	NS	NS	NS	NS	mg/kg	<0.0047 UJ	<0.31 UJ	<0.38 UJ	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	100	500	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	19	150	mg/kg	<0.0047 UJ	<0.31 U	<0.38 UJ	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 UJ	<0.004 U
Toluene	108-88-3	**0.7**	0.7	100	500	mg/kg	0.0097	<0.31 U	<0.38 U	<0.0054 U	0.01	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
Total Xylenes	1330-20-7	**0.26**	1.6	100	500	mg/kg	<0.014 U	<0.93 U	<1.1 U	<0.016 U	0.14	<0.0089 U	<0.0092 U	<0.0088 U	<0.0084 U	<0.012 U
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	100	500	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	NS	mg/kg	<0.0047 UJ	<0.31 U	<0.38 UJ	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
Trichloroethene (TCE)	79-01-6	0.47	0.47	21	200	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 U	<0.0021 U	<0.003 U	<0.0031 U	<0.0029 U	<0.0028 U	<0.004 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	NS	mg/kg	<0.0047 UJ	<0.31 U	<0.38 U	<0.0054 UJ	<0.0021 UJ	<0.003 UJ	<0.0031 UJ	<0.0029 U	<0.0028 U	<0.004 U
Vinyl Chloride	75-01-4	0.02	0.02	0.9	13	mg/kg	<0.0047 U	<0.31 U	<0.38 U	<0.0054 UJ	<0.0021 UJ	<0.003 UJ	<0.0031 UJ	<0.0029 U	<0.0028 U	<0.004 U

Notes provided on Page 25.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3B
Remedial Investigation Report
Soil Sample Analytical Results - Block 1825 (F)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	F-EP101	F-EP101	F-EP101	F-EP101	F-EP102	F-EP102	F-EP102	F-EP103	F-EP103	F-EP103
						Sample Name	F-EP101_0-2	F-EP101_6-8	DUP03_091621	F-EP101_9-11	F-EP102_0-2	F-EP102_6-8	F-EP102_10-12	F-EP103_0-2	DUP04_092021	F-EP103_7-9
						Sample Date	09/16/2021	09/16/2021	09/16/2021	09/16/2021	09/16/2021	09/16/2021	09/16/2021	09/20/2021	09/20/2021	09/20/2021
						Sample Depth	0-2	6-8	6-8	9-11	0-2	6-8	10-12	0-2	0-2	7-9
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	NS	mg/kg	<0.091 U	<0.128 U	<0.126 U	<0.148 U	<0.0911 U	<0.111 U	<0.129 U	<0.094 U	<0.0936 U	<0.135 U
1,2-Diphenylhydrazine	122-66-7	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 U	<0.0678 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.0194 U	<0.0196 U	<0.0196 U	<0.0196 U	<0.0194 U	<0.0198 U	<0.0189 U	<0.0183 U	<0.0196 U	<0.0198 U
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	NS	mg/kg	<0.091 U	<0.128 U	<0.126 U	<0.148 U	<0.0911 UJ	<0.111 U	<0.129 U	<0.094 U	<0.0936 UJ	<0.135 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 UJ	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 UJ	<0.0678 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 UJ	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 UJ	<0.0678 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 UJ	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 UJ	<0.0678 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 UJ	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 UJ	<0.0678 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	NS	mg/kg	<0.091 U	<0.128 U	<0.126 U	<0.148 U	<0.0911 UJ	<0.111 U	<0.129 U	<0.094 U	<0.0936 UJ	<0.135 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 U	<0.0678 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 U	<0.0678 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 U	<0.0678 U
2-Chlorophenol	95-57-8	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 UJ	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 UJ	<0.0678 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	0.0619 JD	<0.0557 U	<0.0648 U	0.425 J	0.161 J	<0.0678 U
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	500	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 UJ	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 UJ	<0.0678 U
2-Nitroaniline	88-74-4	NS	NS	NS	NS	mg/kg	<0.091 U	<0.128 U	<0.126 U	<0.148 U	<0.0911 U	<0.111 U	<0.129 U	<0.094 U	<0.0936 U	<0.135 U
2-Nitrophenol	88-75-5	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 UJ	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 UJ	<0.0678 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	0.33	0.33	100	500	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 UJ	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 UJ	<0.0678 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 U	<0.0678 U
3-Nitroaniline	99-09-2	NS	NS	NS	NS	mg/kg	<0.091 U	<0.128 U	<0.126 U	<0.148 U	<0.0911 U	<0.111 U	<0.129 U	<0.094 U	<0.0936 U	<0.135 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	NS	mg/kg	<0.091 U	<0.128 U	<0.126 U	<0.148 U	<0.0911 UJ	<0.111 U	<0.129 U	<0.094 U	<0.0936 UJ	<0.135 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 U	<0.0678 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 UJ	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 UJ	<0.0678 U
4-Chloroaniline	106-47-8	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 U	<0.0678 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 U	<0.0678 U
4-Nitroaniline	100-01-6	NS	NS	NS	NS	mg/kg	<0.091 U	<0.128 U	<0.126 U	<0.148 U	<0.0911 U	<0.111 U	<0.129 U	<0.094 U	<0.0936 U	<0.135 U
4-Nitrophenol	100-02-7	NS	NS	NS	NS	mg/kg	<0.091 U	<0.128 U	<0.126 U	<0.148 U	<0.0911 UJ	<0.111 U	<0.129 U	<0.094 U	<0.0936 UJ	<0.135 U
Acenaphthene	83-32-9	20	98	100	500	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	0.0549 JD	<0.0469 U	<0.0678 U
Acenaphthylene	208-96-8	100	107	100	500	mg/kg	0.109 D	1.11 J	<0.0633 UJ	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	0.162 D	0.0546 JD	<0.0678 U
Acetophenone	98-86-2	NS	NS	NS	NS	mg/kg	<0.0486 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 U	<0.0678 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	NS	NS	NS	mg/kg	<0.182 U	<0.257 U	<0.253 U	<0.296 U	<0.183 U	<0.223 U	<0.259 U	<0.188 U	<0.187 U	<0.271 U
Anthracene	120-12-7	100	1000	100	500	mg/kg	0.116 D	<0.0643 U	0.0797 JD	<0.0741 U	0.102 D	0.0649 JD	0.146 D	0.15 D	<0.0469 U	<0.0678 U
Atrazine	1912-24-9	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 U	<0.0678 U
Benzaldehyde	100-52-7	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	0.0757 JD	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 U	<0.0678 U
Benzidine	92-87-5	NS	NS	NS	NS	mg/kg	<0.182 U	<0.257 U	<0.253 U	<0.296 U	<0.183 U	<0.223 U	<0.259 U	<0.188 U	<0.187 U	<0.271 U
Benzo(a)anthracene	56-55-3	**1**	1	1	5.6	mg/kg	0.354 D	0.107 JD	0.276 D	<0.0741 U	0.352 D	0.115 D	<0.0648 U	0.215 J	0.489 J	0.142 D
Benzo(a)pyrene	50-32-8	**1**	22	1	1	mg/kg	0.384 D	0.149 D	0.322 D	<0.0741 U	0.338 D	0.105 JD	<0.0648 U	0.25 J	0.421 J	0.201 D
Benzo(b)fluoranthene	205-99-2	**1**	1.7	1	5.6	mg/kg	0.335 D	0.117 JD	0.27 D	<0.0741 U	0.302 D	0.0791 JD	<0.0648 U	0.195 J	0.403 J	0.166 D
Benzo(g,h,i)Perylene	191-24-2	100	1000	100	500	mg/kg	0.247 D	0.0923 JD	0.179 D	<0.0741 U	0.195 D	<0.0557 U	<0.0648 U	0.198 D	0.233 D	0.161 D
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	3.9	56	mg/kg	0.254 D	0.0994 JD	0.209 D	<0.0741 U	0.216 D	0.0737 JD	<0.0648 U	0.15 D	0.313 D	0.116 JD
Benzoic Acid	65-85-0	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 U	<0.0678 U
Benzyl Alcohol	100-51-6	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 U	<0.0678 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 U	<0.0678 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 U	<0.0678 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 U	<0.0678 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 U	<0.0678 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 U	<0.0678 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	0.275 D	<0.0557 U	<0.0648 U	0.0549 JD	<0.0469 U	<0.0678 U
Caprolactam	105-60-2	NS	NS	NS	NS	mg/kg	<0.091 U	<0.128 U	<0.126 U	<0.148 U	<0.0911 U	<0.111 U	<0.129 U	<0.094 U	<0.0936 U	<0.135 U
Carbazole	86-74-8	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 U	<0.0678 U
Chrysene	218-01-9	**1**	1	3.9	56	mg/kg	0.353 D	0.1 JD	0.244 D	<0.0741 U	0.319 D	0.0942 JD	<0.0648 U	0.218 J	0.426 J	0.14 D
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.33	0.56	mg/kg	0.0734 JD	<0.0643 U	<0.0633 U	<0.0741 U	0.0627 JD	<0.0557 U	<0.0648 U	<0.0471 U	0.0958 D	<0.0678 U
Dibenzofuran	132-64-9	7	210	59	350	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	0.0586 JD	<0.0469 U	<0.0678 U
Dibutyl phthalate	84-74-2	NS	NS	NS	NS	mg/kg	0.0669 JD	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 U	<0.0678 U
Diethyl phthalate	84-66-2	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 U	<0.0678 U
Dimethyl phthalate	131-11-3	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 U	<0.0678 U
Dioctyl phthalate	117-84-0	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 U	<0.0678 U
Diphenylamine	122-39-4	NS	NS	NS	NS	mg/kg	<0.091 U	<0.128 U	<0.126 U	<0.148 U	<0.0911 U	<0.111 U	<0.129 U	<0.094 U	<0.0936 U	<0.135 U
Fluoranthene	206-44-0	100	1000	100	500	mg/kg	0.524 D	0.182 J	0.478 J	<0.0741 U	0.589 D	0.259 D	<0.0648 U	0.318 J	0.841 J	0.158 D
Fluorene	86-73-7	30	386	100	500	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	0.128 D	<0.0469 U	<0.0678 U
Hexachlorobenzene	118-74-1	**0.33**	3.2	1.2	6	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 U	<0.0678 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 U	<0.0678 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 U	<0.0678 U
Hexachloroethane	67-72-1	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 U	<0.0678 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	0.5	5.6	mg/kg	0.311 D	0.115 JD	0.249 D	<0.0741 U	0.249 D	0.0711 JD	<0.0648 U	0.221 D	0.307 D	0.174 D
Isophorone	78-59-1	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 U	<0.0678 U
Naphthalene	91-20-3	12	12	100	500	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	0.124 D	0.117 D	<0.0678 U
Nitrobenzene	98-95-3	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 U	<0.0678 U
n-Nitrosodimethylamine	62-75-9	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 U	<0.0678 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 U	<0.0678 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	NS	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 U	<0.0678 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	6.7	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 UJ	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 UJ	<0.0678 U
Phenanthrene	85-01-8	100	1000	100	500	mg/kg	0.182 D	0.111 JD	0.261 D	<0.0741 U	0.255 D	0.227 D	<0.0648 U	0.254 D	0.351 D	<0.0678 U
Phenol	108-95-2	0.33	0.33	100	500	mg/kg	<0.0456 U	<0.0643 U	<0.0633 U	<0.0741 U	<0.0457 U	<0.0557 U	<0.0648 U	<0.0471 U	<0.0469 U	<0.0678 U
Pyrene	129-00-0	100	1000	100	500	mg/kg	0.516 D	0.16 J	0.422 J	<0.0741 U	0.466 D	0.2 D	<0.0648 U	0.408 J	0.733 J	0.155 D
Pyridine	110-86-1	NS	NS	NS	NS	mg/kg	<0.182 U	<0.257 U	<0.253 U	<0.296 U	<0.183 U	<0.223 U	<0.259 U	<0.188 U	<0.187 U	<0.271 U

Notes provided on Page 25.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3B
Remedial Investigation Report
Soil Sample Analytical Results - Block 1825 (F)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	F-EP101	F-EP101	F-EP101	F-EP101	F-EP102	F-EP102	F-EP102	F-EP103	F-EP103	F-EP103
						Sample Name	F-EP101_0-2	F-EP101_6-8	DUP03_091621	F-EP101_9-11	F-EP102_0-2	F-EP102_6-8	F-EP102_10-12	F-EP103_0-2	DUP04_092021	F-EP103_7-9
						Sample Date	09/16/2021	09/16/2021	09/16/2021	09/16/2021	09/16/2021	09/16/2021	09/16/2021	09/20/2021	09/20/2021	09/20/2021
						Sample Depth	0-2	6-8	6-8	9-11	0-2	6-8	10-12	0-2	0-2	7-9
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Petroleum Hydrocarbons																
Total Petroleum Hydrocarbons	TPH	NS	NS	NS	NS	UNKNOWN	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1 U
Pesticides																
4,4'-DDD	72-54-8	**0.0033**	14	13	92	mg/kg	<0.0018 U	<0.00252 U	<0.00248 UJ	<0.00291 U	<0.00182 U	<0.00219 U	<0.00255 U	<0.00187 UJ	<0.00185 U	<0.00269 U
4,4'-DDE	72-55-9	**0.0033**	17	8.9	62	mg/kg	<0.0018 U	<0.00252 U	<0.00248 UJ	<0.00291 U	<0.00182 U	<0.00219 U	<0.00255 U	<0.00187 UJ	<0.00185 U	<0.00269 U
4,4'-DDT	50-29-3	**0.0033**	136	7.9	47	mg/kg	<0.0018 U	<0.00252 U	<0.00248 UJ	<0.00291 U	<0.00182 U	<0.00219 U	<0.00255 U	<0.00187 UJ	<0.00185 U	<0.00269 U
Aldrin	309-00-2	0.005	0.19	0.097	0.68	mg/kg	<0.0018 U	<0.00252 U	<0.00248 UJ	<0.00291 U	<0.00182 U	<0.00219 U	<0.00255 U	<0.00187 UJ	<0.00185 U	<0.00269 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	0.48	3.4	mg/kg	<0.0018 U	<0.00252 U	<0.00248 UJ	<0.00291 U	<0.00182 U	<0.00219 U	<0.00255 U	<0.00187 UJ	<0.00185 U	<0.00269 U
Alpha Chlordane	5103-71-9	0.094	2.9	4.2	24	mg/kg	0.0134 D	<0.00252 U	<0.00248 UJ	<0.00291 U	<0.00182 U	<0.00219 U	<0.00255 U	<0.00187 UJ	<0.00185 U	<0.00269 U
Alpha Endosulfan	959-98-8	2.4	102	24	200	mg/kg	<0.0018 U	<0.00252 U	<0.00248 UJ	<0.00291 U	<0.00182 U	<0.00219 U	<0.00255 U	<0.00187 UJ	<0.00185 U	<0.00269 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	0.36	3	mg/kg	<0.0018 U	<0.00252 U	<0.00248 UJ	<0.00291 U	<0.00182 U	<0.00219 U	<0.00255 U	<0.00187 UJ	<0.00185 U	<0.00269 U
Beta Endosulfan	33213-65-9	2.4	102	24	200	mg/kg	<0.0018 U	<0.00252 U	<0.00248 UJ	<0.00291 U	<0.00182 U	<0.00219 U	<0.00255 U	<0.00187 UJ	<0.00185 U	<0.00269 U
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	NS	mg/kg	<0.036 U	<0.0504 U	<0.0496 UJ	<0.0581 U	<0.0363 U	<0.0438 U	<0.051 U	<0.0375 UJ	<0.0369 U	<0.0538 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	100	500	mg/kg	<0.0018 U	<0.00252 U	<0.00248 UJ	<0.00291 U	<0.00182 U	<0.00219 U	<0.00255 U	<0.00187 UJ	<0.00185 U	<0.00269 U
Dieldrin	60-57-1	**0.005**	0.1	0.2	1.4	mg/kg	**0.00795 D**	<0.00252 U	<0.00248 UJ	<0.00291 U	<0.00182 U	<0.00219 U	<0.00255 U	<0.00187 UJ	<0.00185 U	<0.00269 U
Endosulfan Sulfate	1031-07-8	2.4	1000	24	200	mg/kg	<0.0018 U	<0.00252 U	<0.00248 UJ	<0.00291 U	<0.00182 U	<0.00219 U	<0.00255 U	<0.00187 UJ	<0.00185 U	<0.00269 U
Endrin	72-20-8	0.014	0.06	11	89	mg/kg	<0.0018 U	<0.00252 U	<0.00248 UJ	<0.00291 U	<0.00182 U	<0.00219 U	<0.00255 U	<0.00187 UJ	<0.00185 U	<0.00269 U
Endrin Aldehyde	7421-93-4	NS	NS	NS	NS	mg/kg	<0.0018 U	<0.00252 U	<0.00248 UJ	<0.00291 U	<0.00182 U	<0.00219 U	<0.00255 U	<0.00187 UJ	<0.00185 U	<0.00269 U
Endrin Ketone	53494-70-5	NS	NS	NS	NS	mg/kg	<0.0018 U	<0.00252 U	<0.00248 UJ	<0.00291 U	<0.00182 U	<0.00219 U	<0.00255 U	<0.00187 UJ	<0.00185 U	<0.00269 U
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	1.3	9.2	mg/kg	<0.0018 U	<0.00252 U	<0.00248 UJ	<0.00291 U	<0.00182 U	<0.00219 U	<0.00255 U	<0.00187 UJ	<0.00185 U	<0.00269 U
Gamma-Chlordane	5566-34-7	NS	NS	NS	NS	mg/kg	0.0137 D	<0.00252 U	<0.00248 UJ	<0.00291 U	<0.00182 U	<0.00219 U	<0.00255 U	<0.00187 UJ	<0.00185 U	<0.00269 U
Heptachlor	76-44-8	0.042	0.38	2.1	15	mg/kg	<0.0018 U	<0.00252 U	<0.00248 UJ	<0.00291 U	<0.00182 U	<0.00219 U	<0.00255 U	<0.00187 UJ	<0.00185 U	<0.00269 U
Heptachlor Epoxide	1024-57-3	NS	NS	NS	NS	mg/kg	<0.0018 U	<0.00252 U	<0.00248 UJ	<0.00291 U	<0.00182 U	<0.00219 U	<0.00255 U	<0.00187 UJ	<0.00185 U	<0.00269 U
Methoxychlor	72-43-5	NS	NS	NS	NS	mg/kg	<0.0018 U	<0.00252 U	<0.00248 UJ	<0.00291 U	<0.00182 U	<0.00219 U	<0.00255 U	<0.00187 UJ	<0.00185 U	<0.00269 U
Toxaphene	8001-35-2	NS	NS	NS	NS	mg/kg	<0.18 U	<0.252 U	<0.248 UJ	<0.291 U	<0.182 U	<0.219 U	<0.255 U	<0.187 UJ	<0.185 U	<0.269 U
Herbicides																
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	NS	mg/kg	<0.022 U	<0.0305 U	<0.03 U	<0.0354 U	<0.0221 U	<0.0266 U	<0.0307 U	<0.0226 U	<0.022 U	<0.0331 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	NS	mg/kg	<0.022 U	<0.0305 U	<0.03 U	<0.0354 U	<0.0221 U	<0.0266 U	<0.0307 U	<0.0226 U	<0.022 U	<0.0331 U
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	100	500	mg/kg	<0.022 U	<0.0305 U	<0.03 U	<0.0354 U	<0.0221 U	<0.0266 U	<0.0307 U	<0.0226 U	<0.022 U	<0.0331 U
Polychlorinated Biphenyl																
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	NS	mg/kg	<0.0182 U	<0.0254 U	<0.0251 UJ	<0.0293 U	<0.0183 U	<0.0221 U	<0.0258 U	<0.0189 U	<0.0186 U	<0.0272 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	NS	mg/kg	<0.0182 U	<0.0254 U	<0.0251 UJ	<0.0293 U	<0.0183 U	<0.0221 U	<0.0258 U	<0.0189 U	<0.0186 U	<0.0272 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	NS	mg/kg	<0.0182 U	<0.0254 U	<0.0251 UJ	<0.0293 U	<0.0183 U	<0.0221 U	<0.0258 U	<0.0189 U	<0.0186 U	<0.0272 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	NS	mg/kg	<0.0182 U	<0.0254 U	<0.0251 UJ	<0.0293 U	<0.0183 U	<0.0221 U	<0.0258 U	<0.0189 U	<0.0186 U	<0.0272 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	NS	mg/kg	<0.0182 U	<0.0254 U	<0.0251 UJ	<0.0293 U	<0.0183 U	<0.0221 U	<0.0258 U	<0.0189 U	<0.0186 U	<0.0272 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	NS	mg/kg	<0.0182 U	<0.0254 U	<0.0251 UJ	<0.0293 U	<0.0183 U	<0.0221 U	<0.0258 U	<0.0189 U	<0.0186 U	<0.0272 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	NS	mg/kg	<0.0182 U	<0.0254 U	<0.0251 UJ	<0.0293 U	<0.0183 U	<0.0221 U	<0.0258 U	0.0206	<0.0186 U	<0.0272 U
Total PCBs	1336-36-3	**0.1**	3.2	1	1	mg/kg	<0.0182 U	<0.0254 U	<0.0251 UJ	<0.0293 U	<0.0183 U	<0.0221 U	<0.0258 U	0.0206	<0.0186 U	<0.0272 U
Metals																
Aluminum	7429-90-5	NS	NS	NS	NS	mg/kg	5,990	5,440	4,320	18,500	10,500	7,300	9,090	8,650	8,590	8,440
Antimony	7440-36-0	NS	NS	NS	NS	mg/kg	<2.76 U	<3.87 U	<3.81 U	<4.48 U	<2.79 U	<3.34 U	<3.9 U	<2.85 UJ	<2.82 U	<4.16 U
Arsenic	7440-38-2	**13**	16	16	16	mg/kg	4.13	4.05 J	12.7 J	10.1	5.63	8.9	3.25	9.79 J	7.39	**16.3**
Barium	7440-39-3	**350**	820	400	400	mg/kg	104	264	337	54.9	79.3	198	32.1	**577 J**	248 J	**1,040**
Beryllium	7440-41-7	7.2	47	72	590	mg/kg	<0.055 U	0.143	0.136	<0.09 U	<0.056 U	0.259	<0.078 U	2.76 J	1.36 J	0.494
Cadmium	7440-43-9	**2.5**	7.5	4.3	9.3	mg/kg	1.28	0.562 J	**2.74 J**	<0.537 U	0.464	1.21	<0.468 U	**3.21 J**	0.855 J	1.22
Calcium	7440-70-2	NS	NS	NS	NS	mg/kg	22,100 B	8,700 B	6,550 B	2,990 B	52,800 B	3,070 B	2,020 B	36,800 J	62,500 J	14,600 B
Chromium, Hexavalent	18540-29-9	**1**	19	110	400	mg/kg	<0.553 U	<0.774 U	<0.762 U	<0.895 U	<0.557 U	<0.669 U	<0.781 U	<0.569 UJ	<0.563 U	<0.832 U
Chromium, Total	7440-47-3	NS	NS	NS	NS	mg/kg	17.5	19.5 J	41.8 J	36.9	16.3	22	17.8	77.6	35.9 J	51.7
Chromium, Trivalent	16065-83-1	**30**	NS	180	1500	mg/kg	17.5	19.5	**41.8**	**36.9**	16.3	22	17.8	**77.6 J**	**35.9 J**	**51.7**
Cobalt	7440-48-4	NS	NS	NS	NS	mg/kg	5.96	7.49 J	20.6 J	13.3	8.24	10.3	5.56	40.4 J	15.2 J	12.8
Copper	7440-50-8	**50**	1720	270	270	mg/kg	**67.2**	**1,510 J**	**463 J**	16.8	**81.6**	**374**	7.89	**586 J**	**285 J**	**517**
Cyanide	57-12-5	27	40	27	27	mg/kg	<0.553 U	<0.774 U	<0.762 U	<0.895 U	<0.557 U	<0.669 U	<0.781 U	<0.569 UJ	<0.563 U	<0.832 U
Iron	7439-89-6	NS	NS	NS	NS	mg/kg	12,400	68,400 J	116,000 J	33,800	16,400	22,200	19,500	50,900 J	23,300 J	59,800
Lead	7439-92-1	**63**	450	400	1000	mg/kg	**160**	**3,230 J**	**603 J**	16.3	**68.9**	**810**	5.6	**793 J**	**376 J**	**1,820**
Magnesium	7439-95-4	NS	NS	NS	NS	mg/kg	4,200 B	1,420 B	994 B	8,920 B	8,730 B	656 B	4,080 B	5,000 J	11,600 J	1,580 B
Manganese	7439-96-5	**1600**	2000	2000	10000	mg/kg	211	363 J	863 J	1,060	215	154	268	593 J	296 J	366
Mercury	7439-97-6	**0.18**	0.73	0.81	2.8	mg/kg	0.131	**5.6 J**	**11.2 J**	0.145	0.0902	0.0695	0.06	0.0872	0.113	**7.47**
Nickel	7440-02-0	**30**	130	310	310	mg/kg	12.6	26.8 J	**71.1 J**	**30.3**	14.9	25.1	14.6	**83.4 J**	**41.1 J**	**45.5 B**
Potassium	7440-09-7	NS	NS	NS	NS	mg/kg	822	723	479	5,080	1,390	624	2,380	1,180	1,160	1,100
Selenium	7782-49-2	**3.9**	4	180	1500	mg/kg	<2.76 U	<3.87 U	<3.81 U	<4.48 U	<2.79 U	<3.34 U	<3.9 U	<2.85 UJ	<2.82 U	<4.16 U
Silver	7440-22-4	**2**	8.3	180	1500	mg/kg	<0.553 U	<0.774 U	<0.762 U	<0.895 U	<0.557 U	<0.669 U	<0.781 U	<0.569 UJ	<0.563 U	<0.832 U
Sodium	7440-23-5	NS	NS	NS	NS	mg/kg	190	306	270	4,680	749	247	1,180	808 J	342 J	430
Thallium	7440-28-0	NS	NS	NS	NS	mg/kg	<2.76 U	<3.87 U	<3.81 U	<4.48 U	<2.79 U	<3.34 U	<3.9 U	<2.85 U	<2.82 U	<4.16 U
Vanadium	7440-62-2	NS	NS	NS	NS	mg/kg	23.7	19.8	23.7	46.1	37.2	23.1	22.7	28.7	30.5	27.8
Zinc	7440-66-6	**109**	2480	10000	10000	mg/kg	**211**	**454**	**509**	81.1	107	**361**	36.3	**6,090 J**	**2,070 J**	**1,220**
General Chemistry																
Solids, Percent	SOLID	NS	NS	NS	NS	Percent	90.5	64.6	65.6	55.9	89.7	74.8	64	87.8	88.8	60.1
Perfluorooctanoic acids																
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA	2991-50-6	NS	NS	NS	NS	mg/kg	<0.000235 U	<0.000339 U	<0.000304 U	<0.000374 U	<0.000259 U	<0.000332 U	<0.000325 U	<0.000261 U	<0.000265 U	0.000449
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOS	2355-31-9	NS	NS	NS	NS	mg/kg	<0.000235 U	<0.000339 U	<0.000304 U	<0.000374 U	<0.000259 U	<0.000332 U	<0.000325 U	<0.000261 U	<0.000265 U	<0.000393 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	NS	mg/kg	<0.000235 U	<0.000339 U	<0.000304 U	<0.000374 U	<0.000259 U	<0.000332 U	<0.000325 U	<0.000261 U	<0.000265 U	<0.000393 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	NS	mg/kg	0.00542	0.000734 J	0.00134 J	<0.000374 U	<0.000259 U	0.000955	<0.000325 U	0.000453	0.000783	0.000832
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	NS	mg/kg	<0.000235 U	<0.000339 U	<0.000304 U	<0.000374 U	<0.000259 U	<0.000332 U	<0.000325 U	<0.000261 U	<0.000265 U	<0.000393 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	NS	mg/kg	<0.000235 U	<0.000339 U	<0.000304 U	<0.000374 U	<0.000259 U	<0.000332 U	<0.000325 U	<0.000261 U	<0.000265 U	<0.000393 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	NS	mg/kg	<0.000235 U	<0.000339 U	<0.000304 U	<0.000374 U	<0.000259 U	<0.000332 U	<0.000325 U	<0.000261 U	<0.000265 U	<0.000393 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	NS	mg/kg	<0.000235 U	<0.000339 U	<0.000304 U	<0.000374 U	<0.000259 U	<0.000332 U	<0.000325 U	<0.000261 U	<0.000265 U	<0.000393 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	NS	mg/kg	<0.000235 U	<0.000339 U	<0.000304 U	<0.000374 U	<0.000259 U	<0.000332 U	<0.000325 U	<0.000261 U	<0.000265 U	<0.000393 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	NS	mg/kg	<0.000235 U	<0.000339 U	<0.000304 U	<0.000374 U	<0.000259 U	<0.000332 U	<0.000325 U	<0.000261 U	<0.000265 U	<0.000393 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	NS	mg/kg	<0.000235 U	<0.000339 U	<0.000304 U	<0.000374 U	<0.000259 U	<0.000332 U	<0.000325 U	<0.000261 U	<0.000265 U	<0.000393 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	NS	mg/kg	<0.000235 U	<0.000339 U	<0.000304 U	<0.000374 U	<0.000259 U	<0.000332 U	<0.000325 U	<0.000261 U	<0.000265 U	<0.000393 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	NS	mg/kg	<0.000235 U	<0.000339 U	<0.000304 U	<0.000374 U	<0.000259 U	<0.000332 U	<0.000325 U	<0.000261 U	<0.000265 U	<0.000393 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.044	0.44	mg/kg	**0.00225**	<0.000339 U	0.000776	<0.000374 U	<0.000259 U	0.000704	<0.000325 U	0.000363	<0.000265 U	<0.000393 U
Perfluorooctanoic Acid (PFOA)	335-67-1	0.00066	0.0011	0.033	0.5	mg/kg	0.000413	<0.000339 U	<0.000304 U	<0.000374 U	<0.000259 U	<0.000332 U	<0.000325 U	<0.000261 U	<0.000265 U	<0.000393 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	NS	mg/kg	<0.000235 U	<0.000339 U	<0.000304 U	<0.000374 U	<0.000259 U	<0.000332 U	<0.000325 U	<0.000261 U	<0.000265 U	<0.000393 U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	NS	mg/kg	<0.000235 U	<0.000339 U	<0.000304 U	<0.000374 U	<0.000259 U	<0.000332 U	<0.000325 U	<0.000261 U	<0.000265 U	<0.000393 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	NS	mg/kg	<0.000235 U	<0.000339 U	<0.000304 U	<0.000374 U	<0.000259 U	<0.000332 U	<0.000325 U	<0.000261 U	<0.000265 U	<0.000393 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	NS	mg/kg	<0.000235 U	<0.000339 U	<0.000304 U	<0.000374 U	<0.000259 U	<0.000332 U	<0.000325 U	<0.000261 U	<0.000265 U	<0.000393 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FT	39108-34-4	NS	NS	NS	NS	mg/kg	<0.000235 U	<0.000339 U	<0.000304 U	<0.000374 U	<0.000259 U	<0.000332 U	<0.000325 U	<0.000261 U	<0.000265 U	<0.000393 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FT	27619-97-2	NS	NS	NS	NS	mg/kg	<0.000235 U	<0.000339 U	<0.000304 U	<0.000374 U	<0.000259 U	<0.000332 U	<0.000325 U	<0.000261 U	<0.000265 U	<0.000393 U

Notes provided on Page 25.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3B
Remedial Investigation Report
Soil Sample Analytical Results - Block 1825 (F)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	F-EP103	F-EP105	F-EP105	F-EP105	F-EP106	F-EP106	F-EP107	F-EP107	F-EP107	F-EP109	F-EP109	F-EP109	F-EP116
						Sample Name	F-EP103_10-12	F-EP105_0-2	F-EP105_6-8	F-EP105_10-12	F-EP106_0-2	F-EP106_4-6	F-EP107_0-2	F-EP107_6-8	F-EP107_9-11	F-EP109_0-2	F-EP109_6-8	F-EP109_9-11	F-EP116_0-2
						Sample Date	09/20/2021	09/16/2021	09/16/2021	09/16/2021	09/17/2021	09/17/2021	09/21/2021	09/21/2021	09/21/2021	09/22/2021	09/22/2021	09/22/2021	09/20/2021
						Sample Depth	10-12	0-2	6-8	10-12	0-2	4-6	0-2	6-8	9-11	0-2	6-8	9-11	0-2
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																			
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	NS	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 UJ	<0.0032 UJ	<0.28 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	500	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	NS	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	NS	NS	NS	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	NS	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 UJ	<0.0028 U	<0.0032 U	<0.28 U
1,1-Dichloroethane	75-34-3	0.27	0.27	26	240	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U
1,1-Dichloroethene	75-35-4	0.33	0.33	100	500	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	NS	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	NS	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	NS	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U
1,2,4-Trimethylbenzene	95-63-6	3.6	3.6	52	190	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	0.39 D	<0.0028 U	<0.0032 U	<0.28 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	NS	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	NS	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 UJ	<0.0028 U	<0.0032 U	<0.28 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	500	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 UJ	<0.0028 U	<0.0032 U	<0.28 U
1,2-Dichloroethane	107-06-2	0.02	0.02	3.1	30	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	NS	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	52	190	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	280	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	130	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.099 U	<0.058 U	<0.069 U	<0.096 U	<0.041 U	<0.077 U	<0.084 U	<0.076 U	<0.078 U	<3.5 U	<0.057 U	<0.064 U	<5.6 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	NS	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U
Acetone	67-64-1	**0.05**	0.05	100	500	mg/kg	0.035	<0.012 U	**0.13**	**0.059**	0.0056 J	0.025	**0.19**	**0.18**	**0.058**	<0.35 U	**0.1**	0.03	**1.2 D**
Acrolein	107-02-8	NS	NS	NS	NS	mg/kg	<0.0099 U	<0.0058 U	<0.0069 U	<0.0096 U	<0.0041 U	<0.0077 U	<0.0084 U	<0.0076 U	<0.0078 U	<0.35 U	<0.0057 U	<0.0064 U	<0.56 U
Acrylonitrile	107-13-1	NS	NS	NS	NS	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U
Benzene	71-43-2	**0.06**	0.06	4.8	44	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U
Bromochloromethane	74-97-5	NS	NS	NS	NS	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U
Bromodichloromethane	75-27-4	NS	NS	NS	NS	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U
Bromoform	75-25-2	NS	NS	NS	NS	mg/kg	<0.005 U	<0.0029 UJ	<0.0035 UJ	<0.0048 UJ	<0.002 UJ	<0.0038 UJ	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 UJ	<0.0032 UJ	<0.28 U
Bromomethane	74-83-9	NS	NS	NS	NS	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U
Carbon Disulfide	75-15-0	NS	NS	NS	NS	mg/kg	0.0069 J	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	0.008	<0.0039 U	<0.17 U	<0.0028 U	0.009	<0.28 U
Carbon Tetrachloride	56-23-5	0.76	0.76	2.4	22	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 UJ	<0.0032 UJ	<0.28 U
Chlorobenzene	108-90-7	1.1	1.1	100	500	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 UJ	<0.0028 U	<0.0032 U	<0.28 U
Chloroethane	75-00-3	NS	NS	NS	NS	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U
Chloroform	67-66-3	0.37	0.37	49	350	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U
Chloromethane	74-87-3	NS	NS	NS	NS	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	100	500	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	NS	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 UJ	<0.0032 UJ	<0.28 U
Cyclohexane	110-82-7	NS	NS	NS	NS	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	0.56 D	<0.0028 U	<0.0032 U	<0.28 U
Dibromochloromethane	124-48-1	NS	NS	NS	NS	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U
Dibromomethane	74-95-3	NS	NS	NS	NS	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	NS	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U
Ethylbenzene	100-41-4	**1**	1	41	390	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	0.38 JD
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	NS	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U
M,P-Xylene	179601-23-1	NS	NS	NS	NS	mg/kg	<0.0099 U	<0.0058 U	<0.0069 U	<0.0096 U	<0.0041 U	<0.0077 U	<0.0084 U	<0.0076 U	<0.0078 U	<0.35 U	<0.0057 U	<0.0064 U	<0.56 U
Methyl Acetate	79-20-9	NS	NS	NS	NS	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	0.63 D	<0.0028 U	<0.0032 U	<0.28 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	**0.12**	0.12	100	500	mg/kg	0.0078 J	<0.0029 U	0.031	0.011	<0.002 U	<0.0038 U	0.063	0.052	0.0097	<0.17 U	0.028	0.0045 J	<0.28 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	NS	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U
Methylcyclohexane	108-87-2	NS	NS	NS	NS	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	0.58 D	<0.0028 U	<0.0032 U	<0.28 U
Methylene Chloride	75-09-2	**0.05**	0.05	100	500	mg/kg	<0.02 U	0.018	<0.0069 U	<0.019 U	0.01	<0.0077 U	<0.0084 U	0.023	0.018	<0.35 U	0.016 J	0.02 J	<0.56 U
n-Butylbenzene	104-51-8	12	12	100	500	mg/kg	<0.005 U	<0.0029 UJ	<0.0035 UJ	<0.0048 UJ	<0.002 U	<0.0038 U	<0.0042 UJ	<0.0038 UJ	<0.0039 UJ	0.26 J	<0.0028 U	<0.0032 U	<0.28 U
n-Propylbenzene	103-65-1	**3.9**	3.9	100	500	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	NS	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	NS	NS	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	9.8 D
Sec-Butylbenzene	135-98-8	11	11	100	500	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U
Styrene	100-42-5	NS	NS	NS	NS	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 UJ	<0.0032 UJ	<0.28 U
T-Butylbenzene	98-06-6	5.9	5.9	100	500	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 UJ	<0.0028 UJ	<0.0032 UJ	<0.28 U
Tert-Butyl Alcohol	75-65-0	NS	NS	NS	NS	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 UJ	<0.0038 U	<0.0039 U	<0.17 UJ	<0.0028 UJ	<0.0032 UJ	<0.28 U
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	100	500	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	0.0046 J	<0.28 U
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	19	150	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 UJ	<0.0028 UJ	<0.0032 UJ	<0.28 U
Toluene	108-88-3	**0.7**	0.7	100	500	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 UJ	<0.0028 U	<0.0032 U	<0.28 U
Total Xylenes	1330-20-7	**0.26**	1.6	100	500	mg/kg	<0.015 U	<0.0087 U	<0.01 U	<0.014 U	<0.0061 U	<0.012 U	<0.013 U	<0.011 U	<0.012 U	<0.52 U	<0.0085 U	<0.0096 U	<0.85 U
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	100	500	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	NS	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 UJ	<0.0032 UJ	<0.28 U
Trichloroethene (TCE)	79-01-6	0.47	0.47	21	200	mg/kg	<0.005 U	<0.0029 U	<0.0035 U	<0.0048 U	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	NS	mg/kg	<0.005 U	<0.0029 UJ	<0.0035 UJ	<0.0048 UJ	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U
Vinyl Chloride	75-01-4	0.02	0.02	0.9	13	mg/kg	<0.005 U	<0.0029 UJ	<0.0035 UJ	<0.0048 UJ	<0.002 U	<0.0038 U	<0.0042 U	<0.0038 U	<0.0039 U	<0.17 U	<0.0028 U	<0.0032 U	<0.28 U

Notes provided on Page 25.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3B
Remedial Investigation Report
Soil Sample Analytical Results - Block 1825 (F)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	F-EP103	F-EP105	F-EP105	F-EP105	F-EP106	F-EP106	F-EP107	F-EP107	F-EP107	F-EP109	F-EP109	F-EP109	F-EP116
						Sample Name	F-EP103_10-12	F-EP105_0-2	F-EP105_6-8	F-EP105_10-12	F-EP106_0-2	F-EP106_4-6	F-EP107_0-2	F-EP107_6-8	F-EP107_9-11	F-EP109_0-2	F-EP109_6-8	F-EP109_9-11	F-EP116_0-2
						Sample Date	09/20/2021	09/16/2021	09/16/2021	09/16/2021	09/17/2021	09/17/2021	09/21/2021	09/21/2021	09/21/2021	09/22/2021	09/22/2021	09/22/2021	09/20/2021
						Sample Depth	10-12	0-2	6-8	10-12	0-2	4-6	0-2	6-8	9-11	0-2	6-8	9-11	0-2
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																			
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	NS	mg/kg	<0.136 U	<0.0902 U	<0.122 U	<0.149 U	<0.0918 U	<0.133 U	<0.106 U	<0.113 U	<0.146 U	<0.0944 U	<0.105 U	<0.109 U	<0.0945 U
1,2-Diphenylhydrazine	122-66-7	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.0185 U	<0.019 U	<0.0194 U	<0.0185 U	<0.0192 U	<0.0192 U	<0.0189 U	<0.0194 U	<0.0194 U	<0.0196 U	<0.0187 U	<0.0194 U	NA
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	NS	mg/kg	<0.136 U	<0.0902 U	<0.122 U	<0.149 U	<0.0918 U	<0.133 U	<0.106 U	<0.113 U	<0.146 U	<0.0944 U	<0.105 U	<0.109 U	<0.0945 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	NS	mg/kg	<0.136 U	<0.0902 U	<0.122 U	<0.149 U	<0.0918 U	<0.133 U	<0.106 U	<0.113 U	<0.146 U	<0.0944 U	<0.105 U	<0.109 U	<0.0945 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
2-Chlorophenol	95-57-8	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	0.11 D	<0.0525 U	<0.0548 U	<0.0474 U
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	500	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
2-Nitroaniline	88-74-4	NS	NS	NS	NS	mg/kg	<0.136 U	<0.0902 U	<0.122 U	<0.149 U	<0.0918 U	<0.133 U	<0.106 U	<0.113 U	<0.146 U	<0.0944 U	<0.105 U	<0.109 U	<0.0945 U
2-Nitrophenol	88-75-5	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	0.33	0.33	100	500	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
3-Nitroaniline	99-09-2	NS	NS	NS	NS	mg/kg	<0.136 U	<0.0902 U	<0.122 U	<0.149 U	<0.0918 U	<0.133 U	<0.106 U	<0.113 U	<0.146 U	<0.0944 U	<0.105 U	<0.109 U	<0.0945 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	NS	mg/kg	<0.136 U	<0.0902 U	<0.122 U	<0.149 U	<0.0918 U	<0.133 U	<0.106 U	<0.113 U	<0.146 U	<0.0944 U	<0.105 U	<0.109 U	<0.0945 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
4-Chloroaniline	106-47-8	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
4-Nitroaniline	100-01-6	NS	NS	NS	NS	mg/kg	<0.136 U	<0.0902 U	<0.122 U	<0.149 U	<0.0918 U	<0.133 U	<0.106 U	<0.113 U	<0.146 U	<0.0944 U	<0.105 U	<0.109 U	<0.0945 U
4-Nitrophenol	100-02-7	NS	NS	NS	NS	mg/kg	<0.136 U	<0.0902 U	<0.122 U	<0.149 U	<0.0918 U	<0.133 U	<0.106 U	<0.113 U	<0.146 U	<0.0944 U	<0.105 U	<0.109 U	<0.0945 U
Acenaphthene	83-32-9	20	98	100	500	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	0.19 D
Acenaphthylene	208-96-8	100	107	100	500	mg/kg	<0.0684 U	0.0692 JD	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	0.104 JD	0.0689 JD	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	0.127 D
Acetophenone	98-86-2	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	NS	NS	NS	mg/kg	<0.273 U	<0.181 U	<0.243 U	<0.298 U	<0.184 U	<0.267 U	<0.212 U	<0.227 U	<0.292 U	<0.189 U	<0.21 U	<0.219 U	<0.189 U
Anthracene	120-12-7	100	1000	100	500	mg/kg	<0.0684 U	0.0598 JD	<0.0609 U	<0.0746 U	<0.046 U	0.196 D	0.165 D	0.133 D	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	0.622 D
Atrazine	1912-24-9	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
Benzaldehyde	100-52-7	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	0.0685 JD	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
Benzidine	92-87-5	NS	NS	NS	NS	mg/kg	<0.273 U	<0.181 U	<0.243 U	<0.298 U	<0.184 U	<0.267 U	<0.212 U	<0.227 U	<0.292 U	<0.189 U	<0.21 U	<0.219 U	<0.189 U
Benzo(a)anthracene	**1**	1	1	5.6		mg/kg	<0.0684 U	0.251 D	0.779 D	<0.0746 U	<0.046 U	0.235 D	0.717 D	**1.43 D**	<0.0732 U	0.0679 JD	0.193 D	<0.0548 U	**1.63 D**
Benzo(a)pyrene	**1**	22	1	1		mg/kg	<0.0684 U	0.335 D	**1.18 D**	<0.0746 U	<0.046 U	0.121 JD	0.78 D	**1.6 D**	<0.0732 U	0.0687 JD	0.287 D	<0.0548 U	**1.52 D**
Benzo(b)fluoranthene	205-99-2	**1**	1.7	1	5.6	mg/kg	<0.0684 U	0.303 D	0.945 D	<0.0746 U	<0.046 U	0.13 JD	0.767 D	**1.28 D**	<0.0732 U	0.0581 JD	0.261 D	<0.0548 U	**1.35 D**
Benzo(g,h,i)Perylene	191-24-2	100	1000	100	500	mg/kg	<0.0684 U	0.19 D	0.727 D	<0.0746 U	<0.046 U	0.0736 JD	0.438 D	1.01 D	<0.0732 U	<0.0473 U	0.212 D	<0.0548 U	0.738 D
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	3.9	56	mg/kg	<0.0684 U	0.254 D	0.774 D	<0.0746 U	<0.046 U	0.0693 JD	0.635 D	**1.16 D**	<0.0732 U	0.0475 JD	0.18 D	<0.0548 U	**1.07 D**
Benzoic Acid	65-85-0	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
Benzyl Alcohol	100-51-6	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	0.0635 JD
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	0.39 D	<0.0525 U	<0.0548 U	0.159 D
Caprolactam	105-60-2	NS	NS	NS	NS	mg/kg	<0.136 U	<0.0902 U	<0.122 U	<0.149 U	<0.0918 U	<0.133 U	<0.106 U	<0.113 U	<0.146 U	<0.0944 U	<0.105 U	<0.109 U	<0.0945 U
Carbazole	86-74-8	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	0.0779 JD	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	0.128 D
Chrysene	218-01-9	**1**	1	3.9	56	mg/kg	<0.0684 U	0.226 D	0.704 D	<0.0746 U	<0.046 U	0.454 D	0.854 D	**1.5 D**	<0.0732 U	0.0596 JD	0.177 D	<0.0548 U	**1.35 D**
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.33	0.56	mg/kg	<0.0684 U	<0.0452 U	0.157 D	<0.0746 U	<0.046 U	<0.0669 U	0.129 D	**0.362 D**	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	0.212 D
Dibenzofuran	132-64-9	7	210	59	350	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	0.0778 JD
Dibutyl phthalate	84-74-2	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
Diethyl phthalate	84-66-2	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
Dimethyl phthalate	131-11-3	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
Dioctyl phthalate	117-84-0	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
Diphenylamine	122-39-4	NS	NS	NS	NS	mg/kg	<0.136 U	<0.0902 U	<0.122 U	<0.149 U	<0.0918 U	<0.133 U	<0.106 U	<0.113 U	<0.146 U	<0.0944 U	<0.105 U	<0.109 U	<0.0945 U
Fluoranthene	206-44-0	100	1000	100	500	mg/kg	<0.0684 U	0.248 D	0.795 D	<0.0746 U	<0.046 U	0.288 D	1.66 D	1.62 D	<0.0732 U	0.106 D	0.291 D	<0.0548 U	2.82 D
Fluorene	86-73-7	30	386	100	500	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	0.0694 JD	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	0.209 D
Hexachlorobenzene	118-74-1	**0.33**	3.2	1.2	6	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
Hexachloroethane	67-72-1	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	0.5	5.6	mg/kg	<0.0684 U	0.235 D	**0.927 D**	<0.0746 U	<0.046 U	0.0939 JD	**0.616 D**	**1.11 D**	<0.0732 U	<0.0473 U	0.263 D	<0.0548 U	**1.05 D**
Isophorone	78-59-1	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
Naphthalene	91-20-3	12	12	100	500	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	0.0732 JD	<0.0525 U	<0.0548 U	0.0499 JD
Nitrobenzene	98-95-3	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
n-Nitrosodimethylamine	62-75-9	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	NS	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	6.7	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
Phenanthrene	85-01-8	100	1000	100	500	mg/kg	<0.0684 U	0.0706 JD	0.158 D	<0.0746 U	<0.046 U	0.186 D	0.663 D	0.714 D	<0.0732 U	0.0483 JD	0.12 D	<0.0548 U	1.84 D
Phenol	108-95-2	0.33	0.33	100	500	mg/kg	<0.0684 U	<0.0452 U	<0.0609 U	<0.0746 U	<0.046 U	<0.0669 U	<0.0531 U	<0.0568 U	<0.0732 U	<0.0473 U	<0.0525 U	<0.0548 U	<0.0474 U
Pyrene	129-00-0	100	1000	100	500	mg/kg	<0.0684 U	0.244 D	0.655 D	<0.0746 U	<0.046 U	0.288 D	1.42 D	2 D	<0.0732 U	0.125 D	0.256 D	<0.0548 U	2.73 D
Pyridine	110-86-1	NS	NS	NS	NS	mg/kg	<0.273 U	<0.181 U	<0.243 U	<0.298 U	<0.184 U	<0.267 U	<0.212 U	<0.227 U	<0.292 U	<0.189 U	<0.21 U	<0.219 U	<0.189 U

Notes provided on Page 25.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3B
Remedial Investigation Report
Soil Sample Analytical Results - Block 1825 (F)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	F-EP103	F-EP105	F-EP105	F-EP105	F-EP106	F-EP106	F-EP107	F-EP107	F-EP107	F-EP109	F-EP109	F-EP109	F-EP116
						Sample Name	F-EP103_10-12	F-EP105_0-2	F-EP105_6-8	F-EP105_10-12	F-EP106_0-2	F-EP106_4-6	F-EP107_0-2	F-EP107_6-8	F-EP107_9-11	F-EP109_0-2	F-EP109_6-8	F-EP109_9-11	F-EP116_0-2
						Sample Date	09/20/2021	09/16/2021	09/16/2021	09/16/2021	09/17/2021	09/17/2021	09/21/2021	09/21/2021	09/21/2021	09/22/2021	09/22/2021	09/22/2021	09/20/2021
						Sample Depth	10-12	0-2	6-8	10-12	0-2	4-6	0-2	6-8	9-11	0-2	6-8	9-11	0-2
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Petroleum Hydrocarbons																			
Total Petroleum Hydrocarbons	TPH	NS	NS	NS	NS	UNKNOWN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides																			
4,4'-DDD	72-54-8	**0.0033**	14	13	92	mg/kg	<0.0027 U	<0.00174 U	<0.0024 U	<0.0029 U	<0.00179 U	<0.0027 U	<0.00212 U	<0.00227 U	<0.00288 U	<0.00186 U	<0.00208 U	<0.00213 U	NA
4,4'-DDE	72-55-9	**0.0033**	17	8.9	62	mg/kg	<0.0027 U	<0.00174 U	<0.0024 U	<0.0029 U	<0.00179 U	<0.0027 U	<0.00212 U	<0.00227 U	<0.00288 U	<0.00186 U	<0.00208 U	<0.00213 U	NA
4,4'-DDT	50-29-3	**0.0033**	136	7.9	47	mg/kg	<0.0027 U	<0.00174 U	<0.0024 U	<0.0029 U	<0.00179 U	<0.0027 U	<0.00212 U	<0.00227 U	<0.00288 U	<0.00186 U	<0.00208 U	<0.00213 U	NA
Aldrin	309-00-2	0.005	0.19	0.097	0.68	mg/kg	<0.0027 U	<0.00174 U	<0.0024 U	<0.0029 U	<0.00179 U	<0.0027 U	<0.00212 U	<0.00227 U	<0.00288 U	<0.00186 U	<0.00208 U	<0.00213 U	NA
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	0.48	3.4	mg/kg	<0.0027 U	<0.00174 U	<0.0024 U	<0.0029 U	<0.00179 U	<0.0027 U	<0.00212 U	<0.00227 U	<0.00288 U	<0.00186 U	<0.00208 U	<0.00213 U	NA
Alpha Chlordane	5103-71-9	0.094	2.9	4.2	24	mg/kg	<0.0027 U	<0.00174 U	<0.0024 U	<0.0029 U	<0.00179 U	<0.0027 U	<0.00212 U	<0.00227 U	<0.00288 U	<0.00186 U	<0.00208 U	<0.00213 U	NA
Alpha Endosulfan	959-98-8	2.4	102	24	200	mg/kg	<0.0027 U	<0.00174 U	<0.0024 U	<0.0029 U	<0.00179 U	<0.0027 U	<0.00212 U	<0.00227 U	<0.00288 U	<0.00186 U	<0.00208 U	<0.00213 U	NA
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	0.36	3	mg/kg	<0.0027 U	<0.00174 U	<0.0024 U	<0.0029 U	<0.00179 U	<0.0027 U	<0.00212 U	<0.00227 U	<0.00288 U	<0.00186 U	<0.00208 U	<0.00213 U	NA
Beta Endosulfan	33213-65-9	2.4	102	24	200	mg/kg	<0.0027 U	<0.00174 U	<0.0024 U	<0.0029 U	<0.00179 U	<0.0027 U	<0.00212 U	<0.00227 U	<0.00288 U	<0.00186 U	<0.00208 U	<0.00213 U	NA
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	NS	mg/kg	<0.054 U	<0.0349 U	<0.0479 U	<0.0579 U	<0.0358 U	<0.054 U	<0.0424 U	<0.0453 U	<0.0576 U	<0.0371 U	<0.0416 U	<0.0427 U	NA
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	100	500	mg/kg	<0.0027 U	<0.00174 U	<0.0024 U	<0.0029 U	<0.00179 U	<0.0027 U	<0.00212 U	<0.00227 U	<0.00288 U	<0.00186 U	<0.00208 U	<0.00213 U	NA
Dieldrin	60-57-1	**0.005**	0.1	0.2	1.4	mg/kg	<0.0027 U	<0.00174 U	<0.0024 U	<0.0029 U	<0.00179 U	<0.0027 U	<0.00212 U	<0.00227 U	<0.00288 U	<0.00186 U	<0.00208 U	<0.00213 U	NA
Endosulfan Sulfate	1031-07-8	2.4	1000	24	200	mg/kg	<0.0027 U	<0.00174 U	<0.0024 U	<0.0029 U	<0.00179 U	<0.0027 U	<0.00212 U	<0.00227 U	<0.00288 U	<0.00186 U	<0.00208 U	<0.00213 U	NA
Endrin	72-20-8	0.014	0.06	11	89	mg/kg	<0.0027 U	<0.00174 U	<0.0024 U	<0.0029 U	<0.00179 U	<0.0027 U	<0.00212 U	<0.00227 U	<0.00288 U	<0.00186 U	<0.00208 U	<0.00213 U	NA
Endrin Aldehyde	7421-93-4	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.00174 U	<0.0024 U	<0.0029 U	<0.00179 U	<0.0027 U	<0.00212 U	<0.00227 U	<0.00288 U	<0.00186 U	<0.00208 U	<0.00213 U	NA
Endrin Ketone	53494-70-5	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.00174 U	<0.0024 U	<0.0029 U	<0.00179 U	<0.0027 U	<0.00212 U	<0.00227 U	<0.00288 U	<0.00186 U	<0.00208 U	<0.00213 U	NA
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	1.3	9.2	mg/kg	<0.0027 U	<0.00174 U	<0.0024 U	<0.0029 U	<0.00179 U	<0.0027 U	<0.00212 U	<0.00227 U	<0.00288 U	<0.00186 U	<0.00208 U	<0.00213 U	NA
Gamma-Chlordane	5566-34-7	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.00174 U	<0.0024 U	<0.0029 U	<0.00179 U	<0.0027 U	<0.00212 U	<0.00227 U	<0.00288 U	<0.00186 U	<0.00208 U	<0.00213 U	NA
Heptachlor	76-44-8	0.042	0.38	2.1	15	mg/kg	<0.0027 U	<0.00174 U	<0.0024 U	<0.0029 U	<0.00179 U	<0.0027 U	<0.00212 U	<0.00227 U	<0.00288 U	<0.00186 U	<0.00208 U	<0.00213 U	NA
Heptachlor Epoxide	1024-57-3	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.00174 U	<0.0024 U	<0.0029 U	<0.00179 U	<0.0027 U	<0.00212 U	<0.00227 U	<0.00288 U	<0.00186 U	<0.00208 U	<0.00213 U	NA
Methoxychlor	72-43-5	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.00174 U	<0.0024 U	<0.0029 U	<0.00179 U	<0.0027 U	<0.00212 U	<0.00227 U	<0.00288 U	<0.00186 U	<0.00208 U	<0.00213 U	NA
Toxaphene	8001-35-2	NS	NS	NS	NS	mg/kg	<0.27 U	<0.174 U	<0.24 U	<0.29 U	<0.179 U	<0.27 U	<0.212 U	<0.227 U	<0.288 U	<0.186 U	<0.208 U	<0.213 U	NA
Herbicides																			
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	NS	mg/kg	<0.0328 U	<0.0216 U	<0.0291 U	<0.0356 U	<0.0219 U	<0.0325 U	<0.0255 U	<0.0272 U	<0.0343 U	<0.0227 U	<0.0252 U	<0.0265 U	NA
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	NS	mg/kg	<0.0328 U	<0.0216 U	<0.0291 U	<0.0356 U	<0.0219 U	<0.0325 U	<0.0255 U	<0.0272 U	<0.0343 U	<0.0227 U	<0.0252 U	<0.0265 U	NA
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	100	500	mg/kg	<0.0328 U	<0.0216 U	<0.0291 U	<0.0356 U	<0.0219 U	<0.0325 U	<0.0255 U	<0.0272 U	<0.0343 U	<0.0227 U	<0.0252 U	<0.0265 U	NA
Polychlorinated Biphenyl																			
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	NS	mg/kg	<0.0272 U	<0.0176 U	<0.0242 U	<0.0292 U	<0.0181 U	<0.0273 U	<0.0214 UJ	<0.0229 UJ	<0.0291 UJ	<0.0187 U	<0.021 U	<0.0216 U	NA
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	NS	mg/kg	<0.0272 U	<0.0176 U	<0.0242 U	<0.0292 U	<0.0181 U	<0.0273 U	<0.0214 UJ	<0.0229 UJ	<0.0291 UJ	<0.0187 U	<0.021 U	<0.0216 U	NA
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	NS	mg/kg	<0.0272 U	<0.0176 U	<0.0242 U	<0.0292 U	<0.0181 U	<0.0273 U	<0.0214 UJ	<0.0229 UJ	<0.0291 UJ	<0.0187 U	<0.021 U	<0.0216 U	NA
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	NS	mg/kg	<0.0272 U	<0.0176 U	<0.0242 U	<0.0292 U	<0.0181 U	<0.0273 U	<0.0214 UJ	<0.0229 UJ	<0.0291 UJ	<0.0187 U	<0.021 U	<0.0216 U	NA
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	NS	mg/kg	<0.0272 U	<0.0176 U	<0.0242 U	<0.0292 U	<0.0181 U	<0.0273 U	<0.0214 UJ	<0.0229 UJ	<0.0291 UJ	0.232	<0.021 U	<0.0216 U	NA
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	NS	mg/kg	<0.0272 U	<0.0176 U	<0.0242 U	<0.0292 U	<0.0181 U	<0.0273 U	<0.0214 UJ	<0.0229 UJ	<0.0291 UJ	<0.0187 U	<0.021 U	<0.0216 U	NA
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	NS	mg/kg	<0.0272 U	<0.0176 U	<0.0242 U	<0.0292 U	<0.0181 U	<0.0273 U	0.0837 J	<0.0229 UJ	<0.0291 UJ	<0.0187 U	<0.021 U	<0.0216 U	NA
Total PCBs	1336-36-3	**0.1**	3.2	1	1	mg/kg	<0.0272 U	<0.0176 U	<0.0242 U	<0.0292 U	<0.0181 U	<0.0273 U	0.0837 J	<0.0229 UJ	<0.0291 UJ	**0.232**	<0.021 U	<0.0216 U	NA
Metals																			
Aluminum	7429-90-5	NS	NS	NS	NS	mg/kg	19,200	7,720	9,210	22,700	5,210	2,760	6,130	3,920	19,300	7,140	15,300	18,200	NA
Antimony	7440-36-0	NS	NS	NS	NS	mg/kg	<4.13 U	<2.72 U	<3.67 U	<4.49 U	<2.77 U	<4.12 U	<3.24 U	<3.44 U	<4.42 U	<2.86 U	<3.17 U	<3.33 U	NA
Arsenic	7440-38-2	**13**	16	16	16	mg/kg	**15.3**	5.06	11.1	**15.3**	<1.66 U	**58.7**	2.97	6.73	4.55	4.61	4.57	4.35	NA
Barium	7440-39-3	**350**	820	400	400	mg/kg	55.6	148	**431**	79.7	143	**3,800**	228	**396**	59.9	117	166	48.6	NA
Beryllium	7440-41-7	7.2	47	72	590	mg/kg	0.091	<0.054 U	<0.073 U	<0.09 U	<0.055 U	0.191	0.272	<0.063 U	<0.088 U	<0.057 U	<0.063 U	<0.067 U	NA
Cadmium	7440-43-9	**2.5**	7.5	4.3	9.3	mg/kg	<0.495 U	0.741	**3.44**	<0.539 U	**7.48**	**5.33**	0.782	**66**	1.02	**3.25**	0.868	0.505	NA
Calcium	7440-70-2	NS	NS	NS	NS	mg/kg	2,390 B	38,900 B	16,800 B	3,130 B	6,080 B	25,000 B	9,900 B	71,300 B	3,500 B	18,000 B	6,540 B	3,120 B	NA
Chromium, Hexavalent	18540-29-9	**1**	19	110	400	mg/kg	<0.826 U	<0.544 U	<0.733 U	<0.898 U	<0.554 U	<0.824 U	<0.647 U	<0.689 U	<0.884 U	<0.571 U	<0.634 U	<0.666 U	NA
Chromium, Total	7440-47-3	NS	NS	NS	NS	mg/kg	35.2	15.1	50.5	48.4	14.2	148	14.8	39.5	38	17.1	25.6	34.5	NA
Chromium, Trivalent	16065-83-1	**30**	NS	180	1500	mg/kg	**35.2**	15.1	**50.5**	**48.4**	14.2	**148**	14.8	**39.5**	**38**	17.1	25.6	**34.5**	NA
Cobalt	7440-48-4	NS	NS	NS	NS	mg/kg	16.4	8.13	8.98	15.1	6.18	11	6.44	11.4	13.3	6.03	7.57	12.2	NA
Copper	7440-50-8	**50**	1720	270	270	mg/kg	15.7	**117**	**178**	47.6	**5,430**	**134**	**123**	**173**	15.9	44.9	**61.5**	16.7	NA
Cyanide	57-12-5	27	40	27	27	mg/kg	<0.826 U	<0.544 U	<0.733 U	<0.898 U	<0.554 U	2.37	<0.647 U	1.09	<0.884 U	<0.571 U	1.71	<0.666 U	NA
Iron	7439-89-6	NS	NS	NS	NS	mg/kg	37,700	15,400	32,900	40,800	16,100	22,100	14,900	62,100	25,100	12,800	19,000	30,000	NA
Lead	7439-92-1	**63**	450	400	1000	mg/kg	20.5	**173**	**1,050**	**74.1**	**899**	**1,420**	**388**	**446**	13.1	**128**	**214**	17	NA
Magnesium	7439-95-4	NS	NS	NS	NS	mg/kg	8,260 B	12,800 B	2,380 B	9,720 B	3,260	2,770	2,040 B	24,400 B	6,920 B	2,310	2,440	8,310	NA
Manganese	7439-96-5	**1600**	2000	2000	10000	mg/kg	718	247	219	864	266	224	168	614	1,120	291	238	904	NA
Mercury	7439-97-6	**0.18**	0.73	0.81	2.8	mg/kg	0.165	0.175	**2.14**	0.153	0.17	**0.577**	**0.568**	**0.717**	0.164	0.0933	**0.348**	0.0718	NA
Nickel	7440-02-0	**30**	130	310	310	mg/kg	**42 B**	16.5	**32.5**	**37.1**	19.9	**44.4**	18.7 J	23 J	22.2 J	18.1	22.5	28.7	NA
Potassium	7440-09-7	NS	NS	NS	NS	mg/kg	4,490	986	1,170	6,070	815	595	720	493	3,730	617	759	4,200	NA
Selenium	7782-49-2	**3.9**	4	180	1500	mg/kg	<4.13 U	<2.72 U	<3.67 U	<4.49 U	<2.77 U	<4.12 U	<3.24 U	<3.44 U	<4.42 U	<2.86 U	<3.17 U	<3.33 U	NA
Silver	7440-22-4	**2**	8.3	180	1500	mg/kg	<0.826 U	<0.544 U	<0.733 U	<0.898 U	<0.554 U	<0.824 U	**3.5**	<0.689 U	<0.884 U	<0.571 U	<0.634 U	<0.666 U	NA
Sodium	7440-23-5	NS	NS	NS	NS	mg/kg	2,610	375	440	7,170	154	225	215	251	2,570	125	281	3,700	NA
Thallium	7440-28-0	NS	NS	NS	NS	mg/kg	<4.13 U	<2.72 U	<3.67 U	<4.49 U	<2.77 U	<4.12 U	<3.24 U	<3.44 U	<4.42 U	<2.86 U	<3.17 U	<3.33 U	NA
Vanadium	7440-62-2	NS	NS	NS	NS	mg/kg	44.6	40.3	32.1	55	18.7	26.5	30.1	27.1	48.7	19.9	33.1	42.1	NA
Zinc	7440-66-6	**109**	2480	10000	10000	mg/kg	**129**	**239**	**516**	**136**	**1,420**	**959**	**396**	**15,200 D**	79.8	**233**	**268**	74.1	NA
General Chemistry																			
Solids, Percent	SOLID	NS	NS	NS	NS	Percent	60.5	91.9	68.2	55.7	90.3	60.7	77.2	72.6	56.6	87.5	78.8	75	86.5
Perfluorooctanoic acids																			
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA	2991-50-6	NS	NS	NS	NS	mg/kg	<0.000366 U	<0.000247 U	<0.000336 U	<0.00041 U	<0.000245 U	<0.000393 U	<0.000318 U	<0.000321 U	<0.000391 U	<0.000238 U	<0.000236 U	<0.000326 U	NA
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOS	2355-31-9	NS	NS	NS	NS	mg/kg	<0.000366 U	<0.000247 U	<0.000336 U	<0.00041 U	<0.000245 U	<0.000393 U	<0.000318 U	<0.000321 U	<0.000391 U	<0.000238 U	<0.000236 U	<0.000326 U	NA
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	NS	mg/kg	<0.000366 U	<0.000247 U	<0.000336 U	<0.00041 U	<0.000245 U	<0.000393 U	<0.000318 U	<0.000321 U	<0.000391 U	<0.000238 U	<0.000236 U	<0.000326 U	NA
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	NS	mg/kg	<0.000366 U	<0.000247 U	0.000358	<0.00041 U	<0.000245 U	0.00163	0.00133	0.000898	<0.000391 U	0.000598	0.00047	<0.000326 U	NA
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	NS	mg/kg	<0.000366 U	<0.000247 U	<0.000336 U	<0.00041 U	<0.000245 U	<0.000393 U	<0.000318 U	<0.000321 U	<0.000391 U	<0.000238 U	<0.000236 U	<0.000326 U	NA
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	NS	mg/kg	<0.000366 U	<0.000247 U	<0.000336 U	<0.00041 U	<0.000245 U	<0.000393 U	<0.000318 U	<0.000321 U	<0.000391 U	<0.000238 U	<0.000236 U	<0.000326 U	NA
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	NS	mg/kg	<0.000366 U	<0.000247 U	<0.000336 U	<0.00041 U	<0.000245 U	<0.000393 U	<0.000318 U	<0.000321 U	<0.000391 U	<0.000238 U	<0.000236 U	<0.000326 U	NA
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	NS	mg/kg	<0.000366 U	<0.000247 U	<0.000336 U	<0.00041 U	<0.000245 U	<0.000393 U	<0.000318 U	<0.000321 U	<0.000391 U	<0.000238 U	<0.000236 U	<0.000326 U	NA
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	NS	mg/kg	<0.000366 U	<0.000247 U	<0.000336 U	<0.00041 U	<0.000245 U	<0.000393 U	<0.000318 U	<0.000321 U	<0.000391 U	<0.000238 U	<0.000236 U	<0.000326 U	NA
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	NS	mg/kg	<0.000366 U	<0.000247 U	<0.000336 U	<0.00041 U	<0.000245 U	<0.000393 U	<0.000318 U	<0.000321 U	<0.000391 U	<0.000238 U	<0.000236 U	<0.000326 U	NA
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	NS	mg/kg	<0.000366 U	<0.000247 U	<0.000336 U	<0.00041 U	<0.000245 U	<0.000393 U	<0.000318 U	<0.000321 U	<0.000391 U	<0.000238 U	<0.000236 U	<0.000326 U	NA
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	NS	mg/kg	<0.000366 U	<0.000247 U	<0.000336 U	<0.00041 U	<0.000245 U	<0.000393 U	<0.000318 U	<0.000321 U	<0.000391 U	<0.000238 U	<0.000236 U	<0.000326 U	NA
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	NS	mg/kg	<0.000366 U	<0.000247 U	<0.000336 U	<0.00041 U	<0.000245 U	<0.000393 U	<0.000318 U	<0.000321 U	<0.000391 U	<0.000238 U	<0.000236 U	<0.000326 U	NA
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.044	0.44	mg/kg	<0.000366 U	<0.000247 U	**0.000954**	<0.00041 U	<0.000245 U	**0.0026**	<0.000318 U	0.000634	<0.000391 U	<0.000238 U	0.000375	<0.000326 U	NA
Perfluorooctanoic Acid (PFOA)	335-67-1	0.00066	0.0011	0.033	0.5	mg/kg	<0.000366 U	<0.000247 U	<0.000336 U	<0.00041 U	<0.000245 U	<0.000393 U	<0.000318 U	<0.000321 U	<0.000391 U	<0.000238 U	<0.000236 U	<0.000326 U	NA
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	NS	mg/kg	<0.000366 U	<0.000247 U	<0.000336 U	<0.00041 U	<0.000245 U	<0.000393 U	<0.000318 U	<0.000321 U	<0.000391 U	<0.000238 U	<0.000236 U	<0.000326 U	NA
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	NS	mg/kg	<0.000366 U	<0.000247 U	<0.000336 U	<0.00041 U	<0.000245 U	<0.000393 U	<0.000318 U	<0.000321 U	<0.000391 U	<0.000238 U	<0.000236 U	<0.000326 U	NA
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	NS	mg/kg	<0.000366 U	<0.000247 U	<0.000336 U	<0.00041 U	<0.000245 U	<0.000393 U	<0.000318 U	<0.000321 U	<0.000391 U	<0.000238 U	<0.000236 U	<0.000326 U	NA
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	NS	mg/kg	<0.000366 U	<0.000247 U	<0.000336 U	<0.00041 U	<0.000245 U	<0.000393 U	<0.000318 U	<0.000321 U	<0.000391 U	<0.000238 U	<0.000236 U	<0.000326 U	NA
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FT	39108-34-4	NS	NS	NS	NS	mg/kg	<0.000366 U	<0.000247 U	<0.000336 U	<0.00041 U	<0.000245 U	0.000812 J	<0.000318 U	<0.000321 U	<0.000391 U	<0.000238 U	<0.000236 U	<0.000326 U	NA
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FT	27619-97-2	NS	NS	NS	NS	mg/kg	<0.000366 U	<0.000247 U	<0.000336 U	<0.00041 U	<0.000245 U	<0.000393 U	<0.000318 U	<0.000321 U	<0.000391 U	<0.000238 U	<0.000236 U	<0.000326 U	NA

Notes provided on Page 25.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3B
Remedial Investigation Report
Soil Sample Analytical Results - Block 1825 (F)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	F-EP116	F-EP130	F-EP130	F-EP131	F-EP131	F-EP131	F-SB101	F-SB101	F-SB101	F-SB102	F-SB102	F-SB102	F-SB103
						Sample Name	F-EP116_9-11	F-EP130_3-5	F-EP130_9-11	F-EP131_0-2	F-EP131_4-6	F-EP131_12-14	F-SB101_0-2	F-SB101_6-8	F-SB101_10-12	F-SB102_0-2	F-SB102_5.5-7.5	F-SB102_12-14	F-SB103_0-2
						Sample Date	09/20/2021	09/21/2021	09/21/2021	09/17/2021	09/17/2021	09/21/2021	09/16/2021	09/16/2021	09/16/2021	09/16/2021	09/16/2021	09/16/2021	10/04/2021
						Sample Depth	9-11	3-5	9-11	0-2	4-6	12-14	0-2	6-8	10-12	0-2	5.5-7.5	12-14	0-2
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																			
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	NS	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 UJ	<0.005 UJ	<0.0031 UJ	<0.0028 UJ	<0.0019 UJ	<0.0038 UJ	<0.0023 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	500	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	NS	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	NS	NS	NS	mg/kg	<0.0041 UJ	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	NS	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 U
1,1-Dichloroethane	75-34-3	0.27	0.27	26	240	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 U
1,1-Dichloroethene	75-35-4	0.33	0.33	100	500	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	NS	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 UJ
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	NS	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	NS	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 UJ
1,2,4-Trimethylbenzene	95-63-6	3.6	3.6	52	190	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	0.66 D	0.38 JD	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	0.098
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	NS	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	NS	mg/kg	<0.0041 UJ	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	500	mg/kg	<0.0041 UJ	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 UJ
1,2-Dichloroethane	107-06-2	0.02	0.02	3.1	30	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	NS	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	52	190	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	2.2 D	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	0.037
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	280	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 UJ
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	130	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 UJ
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.081 U	<0.092 U	<0.21 U	<4.4 U	<7.5 U	<0.075 U	<0.052 U	<0.1 U	<0.061 U	<0.056 U	<0.039 U	<0.076 U	<0.047 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	NS	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 U
Acetone	67-64-1	**0.05**	0.05	100	500	mg/kg	**0.057**	0.027	**0.072**	<0.44 U	<0.75 U	0.041	**0.11**	**0.26**	0.034	0.016	<0.0039 U	0.041	**0.072**
Acrolein	107-02-8	NS	NS	NS	NS	mg/kg	<0.0081 U	<0.0092 U	<0.021 U	<0.44 U	<0.75 U	0.01 J	<0.0052 U	<0.01 U	<0.0061 U	<0.0056 U	<0.0039 U	<0.0076 U	<0.0047 U
Acrylonitrile	107-13-1	NS	NS	NS	NS	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 U
Benzene	71-43-2	**0.06**	0.06	4.8	44	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	**32 D**	**0.51 JD**	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	0.0039 J	<0.0019 U	<0.0038 U	**2 D**
Bromochloromethane	74-97-5	NS	NS	NS	NS	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 U
Bromodichloromethane	75-27-4	NS	NS	NS	NS	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 U
Bromoform	75-25-2	NS	NS	NS	NS	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 UJ	<0.38 UJ	<0.0038 U	<0.0026 UJ	<0.005 UJ	<0.0031 UJ	<0.0028 UJ	<0.0019 UJ	<0.0038 UJ	<0.0023 UJ
Bromomethane	74-83-9	NS	NS	NS	NS	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 U
Carbon Disulfide	75-15-0	NS	NS	NS	NS	mg/kg	0.01	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	0.0091	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	0.0099	<0.0023 U
Carbon Tetrachloride	56-23-5	0.76	0.76	2.4	22	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 UJ	<0.005 UJ	<0.0031 UJ	<0.0028 UJ	<0.0019 UJ	<0.0038 UJ	<0.0023 U
Chlorobenzene	108-90-7	1.1	1.1	100	500	mg/kg	<0.0041 UJ	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 U
Chloroethane	75-00-3	NS	NS	NS	NS	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 U
Chloroform	67-66-3	0.37	0.37	49	350	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 U
Chloromethane	74-87-3	NS	NS	NS	NS	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 U
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	100	500	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	NS	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 U
Cyclohexane	110-82-7	NS	NS	NS	NS	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	33 D	3.6 D	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	0.091
Dibromochloromethane	124-48-1	NS	NS	NS	NS	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 U
Dibromomethane	74-95-3	NS	NS	NS	NS	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	NS	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 U
Ethylbenzene	100-41-4	**1**	1	41	390	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	**14 D**	0.57 JD	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	0.0096
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 UJ
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	NS	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	6.4 D	1.6 D	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	0.0057
M,P-Xylene	179601-23-1	NS	NS	NS	NS	mg/kg	<0.0081 U	<0.0092 U	<0.021 U	7.8 D	1 JD	<0.0075 U	<0.0052 U	<0.01 U	<0.0061 U	<0.0056 U	<0.0039 U	<0.0076 U	0.049
Methyl Acetate	79-20-9	NS	NS	NS	NS	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	**0.12**	0.12	100	500	mg/kg	0.014	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	0.0064 J	0.029	0.065	0.0058 J	<0.0028 U	<0.0019 U	0.0063 J	0.016
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	NS	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 U
Methylcyclohexane	108-87-2	NS	NS	NS	NS	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	12 D	1.4 D	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	0.12
Methylene Chloride	75-09-2	**0.05**	0.05	100	500	mg/kg	0.021	0.015 J	**0.057**	<0.44 U	<0.75 U	0.021	<0.0052 U	<0.02 U	<0.012 U	<0.011 U	<0.0077 U	<0.0076 U	<0.0047 U
n-Butylbenzene	104-51-8	12	12	100	500	mg/kg	<0.0041 UJ	<0.0046 UJ	<0.011 U	1.9 D	0.4 JD	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 U
n-Propylbenzene	103-65-1	**3.9**	3.9	100	500	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	**14 D**	2.5 D	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	0.0076
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	NS	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	1 D	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	0.014
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	NS	NS	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 U
Sec-Butylbenzene	135-98-8	11	11	100	500	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	1.2 D	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 U
Styrene	100-42-5	NS	NS	NS	NS	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 U
T-Butylbenzene	98-06-6	5.9	5.9	100	500	mg/kg	<0.0041 UJ	<0.0046 U	<0.011 U	0.32 JD	<0.38 U	<0.0038 U	<0.0026 UJ	<0.005 UJ	<0.0031 UJ	<0.0028 UJ	<0.0019 UJ	<0.0038 UJ	<0.0023 U
Tert-Butyl Alcohol	75-65-0	NS	NS	NS	NS	mg/kg	<0.0041 UJ	<0.0046 UJ	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 UJ	<0.005 UJ	<0.0031 UJ	<0.0028 UJ	<0.0019 UJ	<0.0038 UJ	<0.0023 U
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	100	500	mg/kg	0.0041 J	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	0.0045 J	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 U
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	19	150	mg/kg	<0.0041 UJ	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 UJ	<0.005 UJ	<0.0031 UJ	<0.0028 UJ	<0.0019 UJ	<0.0038 UJ	<0.0023 UJ
Toluene	108-88-3	**0.7**	0.7	100	500	mg/kg	<0.0041 UJ	<0.0046 U	<0.011 U	**1.1 D**	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	0.013
Total Xylenes	1330-20-7	**0.26**	1.6	100	500	mg/kg	<0.012 U	<0.014 U	<0.032 U	**8.9 D**	<1.1 U	<0.011 U	<0.0078 U	<0.015 U	<0.0092 U	<0.0084 U	<0.0058 U	<0.011 U	0.063
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	100	500	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	NS	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 UJ	<0.005 UJ	<0.0031 UJ	<0.0028 UJ	<0.0019 UJ	<0.0038 UJ	<0.0023 U
Trichloroethene (TCE)	79-01-6	0.47	0.47	21	200	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	NS	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 U
Vinyl Chloride	75-01-4	0.02	0.02	0.9	13	mg/kg	<0.0041 U	<0.0046 U	<0.011 U	<0.22 U	<0.38 U	<0.0038 U	<0.0026 U	<0.005 U	<0.0031 U	<0.0028 U	<0.0019 U	<0.0038 U	<0.0023 U

Notes provided on Page 25.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3B
Remedial Investigation Report
Soil Sample Analytical Results - Block 1825 (F)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	F-EP116	F-EP130	F-EP130	F-EP131	F-EP131	F-EP131	F-SB101	F-SB101	F-SB101	F-SB102	F-SB102	F-SB102	F-SB103
						Sample Name	F-EP116_9-11	F-EP130_3-5	F-EP130_9-11	F-EP131_0-2	F-EP131_4-6	F-EP131_12-14	F-SB101_0-2	F-SB101_6-8	F-SB101_10-12	F-SB102_0-2	F-SB102_5.5-7.5	F-SB102_12-14	F-SB103_0-2
						Sample Date	09/20/2021	09/21/2021	09/21/2021	09/17/2021	09/17/2021	09/21/2021	09/16/2021	09/16/2021	09/16/2021	09/16/2021	09/16/2021	09/16/2021	10/04/2021
						Sample Depth	9-11	3-5	9-11	0-2	4-6	12-14	0-2	6-8	10-12	0-2	5.5-7.5	12-14	0-2
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																			
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	NS	mg/kg	<0.131 U	<0.108 U	<0.338 U	<0.0972 U	<0.121 U	<0.126 U	<0.0968 U	<0.172 U	<0.103 U	<0.0934 U	<0.0928 U	<0.132 U	<0.101 U
1,2-Diphenylhydrazine	122-66-7	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 U	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	NA	NA	NA	<0.0194 U	<0.0194 U	<0.0189 U	<0.0196 U	<0.0192 U	<0.0198 U	<0.0185 U	<0.0187 U	<0.0185 U	<0.0194 U
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	NS	mg/kg	<0.131 U	<0.108 U	<0.338 U	<0.0972 UJ	<0.121 U	<0.126 U	<0.0968 U	<0.172 U	<0.103 U	<0.0934 U	<0.0928 U	<0.132 U	<0.101 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 UJ	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 UJ	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 UJ	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 UJ	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	NS	mg/kg	<0.131 U	<0.108 U	<0.338 U	<0.0972 UJ	<0.121 U	<0.126 U	<0.0968 U	<0.172 U	<0.103 U	<0.0934 U	<0.0928 U	<0.132 U	<0.101 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 U	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 U	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 U	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
2-Chlorophenol	95-57-8	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 UJ	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	0.97 D	0.135 D	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	0.0687 JD	<0.0465 U	<0.0661 U	<0.0505 U
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	500	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 UJ	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
2-Nitroaniline	88-74-4	NS	NS	NS	NS	mg/kg	<0.131 U	<0.108 U	<0.338 U	<0.0972 U	<0.121 U	<0.126 U	<0.0968 U	<0.172 U	<0.103 U	<0.0934 U	<0.0928 U	<0.132 U	<0.101 U
2-Nitrophenol	88-75-5	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 UJ	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	0.33	0.33	100	500	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 UJ	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 U	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
3-Nitroaniline	99-09-2	NS	NS	NS	NS	mg/kg	<0.131 U	<0.108 U	<0.338 U	<0.0972 U	<0.121 U	<0.126 U	<0.0968 U	<0.172 U	<0.103 U	<0.0934 U	<0.0928 U	<0.132 U	<0.101 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	NS	mg/kg	<0.131 U	<0.108 U	<0.338 U	<0.0972 UJ	<0.121 U	<0.126 U	<0.0968 U	<0.172 U	<0.103 U	<0.0934 U	<0.0928 U	<0.132 U	<0.101 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 U	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 UJ	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
4-Chloroaniline	106-47-8	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 U	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 U	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
4-Nitroaniline	100-01-6	NS	NS	NS	NS	mg/kg	<0.131 U	<0.108 U	<0.338 U	<0.0972 U	<0.121 U	<0.126 U	<0.0968 U	<0.172 U	<0.103 U	<0.0934 U	<0.0928 U	<0.132 U	<0.101 U
4-Nitrophenol	100-02-7	NS	NS	NS	NS	mg/kg	<0.131 U	<0.108 U	<0.338 U	<0.0972 UJ	<0.121 U	<0.126 U	<0.0968 U	<0.172 U	<0.103 U	<0.0934 U	<0.0928 U	<0.132 U	<0.101 U
Acenaphthene	83-32-9	20	98	100	500	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	0.187 D	<0.0607 U	<0.063 U	<0.0485 U	0.0909 JD	<0.0515 U	0.326 D	<0.0465 U	<0.0661 U	<0.0505 U
Acenaphthylene	208-96-8	100	107	100	500	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	0.0746 JD	<0.0607 U	<0.063 U	0.0828 JD	<0.0864 U	<0.0515 U	0.48 D	<0.0465 U	<0.0661 U	<0.0505 U
Acetophenone	98-86-2	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 U	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	NS	NS	NS	mg/kg	<0.262 U	<0.216 U	<0.677 U	<0.195 U	<0.243 U	<0.252 U	<0.194 U	<0.345 U	<0.206 U	<0.187 U	<0.186 U	<0.264 U	<0.202 U
Anthracene	120-12-7	100	1000	100	500	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	0.204 D	<0.0607 U	<0.063 U	0.212 D	0.22 D	0.0805 JD	2.84 D	<0.0465 U	<0.0661 U	0.107 D
Atrazine	1912-24-9	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 U	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
Benzaldehyde	100-52-7	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 U	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
Benzidine	92-87-5	NS	NS	NS	NS	mg/kg	<0.262 U	<0.216 U	<0.677 U	<0.195 U	<0.243 U	<0.252 U	<0.194 U	<0.345 U	<0.206 U	<0.187 U	<0.186 U	<0.264 U	<0.202 U
Benzo(a)anthracene	**1**	1	1	5.6		mg/kg	<0.0656 U	<0.0541 U	<0.169 U	0.207 D	0.061 JD	<0.063 U	0.663 D	0.519 D	0.15 D	**7.53 D**	<0.0465 U	<0.0661 U	0.402 D
Benzo(a)pyrene	**1**	22	1	1		mg/kg	<0.0656 U	<0.0541 U	<0.169 U	0.199 D	0.0968 JD	<0.063 U	0.674 D	0.521 D	0.132 D	**6.48 D**	<0.0465 U	0.0749 JD	0.367 D
Benzo(b)fluoranthene	**1**	1.7	1	5.6		mg/kg	<0.0656 U	<0.0541 U	<0.169 U	0.171 D	0.0988 JD	<0.063 U	0.574 D	0.413 D	0.112 D	**5.75 D**	<0.0465 U	<0.0661 U	0.308 D
Benzo(g,h,i)Perylene	191-24-2	100	1000	100	500	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	0.118 D	0.0978 JD	<0.063 U	0.361 D	0.284 D	0.0665 JD	3.68 D	<0.0465 U	<0.0661 U	0.273 D
Benzo(k)fluoranthene	**0.8**	1.7	3.9	56		mg/kg	<0.0656 U	<0.0541 U	<0.169 U	0.128 D	0.0833 JD	<0.063 U	0.543 D	0.306 D	0.096 JD	**5.3 D**	<0.0465 U	<0.0661 U	0.243 D
Benzoic Acid	65-85-0	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 U	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
Benzyl Alcohol	100-51-6	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 U	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 U	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 U	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	0.196 D	<0.0465 U	<0.0661 U	<0.0505 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 U	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 U	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 U	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	0.618 D	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	0.123 D
Caprolactam	105-60-2	NS	NS	NS	NS	mg/kg	<0.131 U	<0.108 U	<0.338 U	<0.0972 U	<0.121 U	<0.126 U	<0.0968 U	<0.172 U	<0.103 U	<0.0934 U	<0.0928 U	<0.132 U	<0.101 U
Carbazole	86-74-8	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 U	<0.0607 U	<0.063 U	0.0557 JD	0.0896 JD	<0.0515 U	1.19 D	<0.0465 U	<0.0661 U	0.0547 JD
Chrysene	218-01-9	**1**	1	3.9	56	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	0.19 D	0.0658 JD	<0.063 U	0.659 D	0.474 D	0.131 D	**6.51 D**	<0.0465 U	<0.0661 U	0.402 D
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.33	0.56	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 U	<0.0607 U	<0.063 U	0.12 D	<0.0864 U	<0.0515 U	**1.73 D**	<0.0465 U	<0.0661 U	0.0604 JD
Dibenzofuran	132-64-9	7	210	59	350	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	0.126 D	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	0.295 D	<0.0465 U	<0.0661 U	<0.0505 U
Dibutyl phthalate	84-74-2	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 U	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
Diethyl phthalate	84-66-2	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 U	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
Dimethyl phthalate	131-11-3	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 U	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
Dioctyl phthalate	117-84-0	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 U	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
Diphenylamine	122-39-4	NS	NS	NS	NS	mg/kg	<0.131 U	<0.108 U	<0.338 U	<0.0972 U	<0.121 U	<0.126 U	<0.0968 U	<0.172 U	<0.103 U	<0.0934 U	<0.0928 U	<0.132 U	<0.101 U
Fluoranthene	206-44-0	100	1000	100	500	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	0.477 D	0.0765 JD	<0.063 U	1.35 D	0.933 D	0.27 D	15.9 D	<0.0465 U	<0.0661 U	0.735 D
Fluorene	86-73-7	30	386	100	500	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	0.357 D	<0.0607 U	<0.063 U	0.0898 JD	<0.0864 U	<0.0515 U	0.837 D	<0.0465 U	<0.0661 U	<0.0505 U
Hexachlorobenzene	118-74-1	**0.33**	3.2	1.2	6	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 U	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 U	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 U	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
Hexachloroethane	67-72-1	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 U	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	0.5	5.6	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	0.158 D	0.126 D	<0.063 U	**0.504 D**	0.357 D	0.087 JD	**5.21 D**	<0.0465 U	0.0728 JD	0.317 D
Isophorone	78-59-1	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 U	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
Naphthalene	91-20-3	12	12	100	500	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	0.395 D	0.0726 JD	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	0.128 D	<0.0465 U	<0.0661 U	<0.0505 U
Nitrobenzene	98-95-3	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 U	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
n-Nitrosodimethylamine	62-75-9	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 U	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 U	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	NS	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 U	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	6.7	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 UJ	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
Phenanthrene	85-01-8	100	1000	100	500	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	0.676 D	<0.0607 U	<0.063 U	0.628 D	0.824 D	0.307 D	11.8 D	<0.0465 U	<0.0661 U	0.473 D
Phenol	108-95-2	0.33	0.33	100	500	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	<0.0487 UJ	<0.0607 U	<0.063 U	<0.0485 U	<0.0864 U	<0.0515 U	<0.0468 U	<0.0465 U	<0.0661 U	<0.0505 U
Pyrene	129-00-0	100	1000	100	500	mg/kg	<0.0656 U	<0.0541 U	<0.169 U	0.605 D	0.0775 JD	<0.063 U	1.16 D	0.926 D	0.268 D	12.4 D	<0.0465 U	<0.0661 U	0.756 D
Pyridine	110-86-1	NS	NS	NS	NS	mg/kg	<0.262 U	<0.216 U	<0.677 U	<0.195 U	<0.243 U	<0.252 U	<0.194 U	<0.345 U	<0.206 U	<0.187 U	<0.186 U	<0.264 U	<0.202 U

Notes provided on Page 25.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3B
Remedial Investigation Report
Soil Sample Analytical Results - Block 1825 (F)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	F-EP116	F-EP130	F-EP130	F-EP131	F-EP131	F-EP131	F-SB101	F-SB101	F-SB101	F-SB102	F-SB102	F-SB102	F-SB103
						Sample Name	F-EP116_9-11	F-EP130_3-5	F-EP130_9-11	F-EP131_0-2	F-EP131_4-6	F-EP131_12-14	F-SB101_0-2	F-SB101_6-8	F-SB101_10-12	F-SB102_0-2	F-SB102_5.5-7.5	F-SB102_12-14	F-SB103_0-2
						Sample Date	09/20/2021	09/21/2021	09/21/2021	09/17/2021	09/17/2021	09/21/2021	09/16/2021	09/16/2021	09/16/2021	09/16/2021	09/16/2021	09/16/2021	10/04/2021
						Sample Depth	9-11	3-5	9-11	0-2	4-6	12-14	0-2	6-8	10-12	0-2	5.5-7.5	12-14	0-2
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Petroleum Hydrocarbons																			
Total Petroleum Hydrocarbons	TPH	NS	NS	NS	NS	UNKNOWN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides																			
4,4'-DDD	72-54-8	**0.0033**	14	13	92	mg/kg	NA	NA	NA	<0.00194 U	<0.00242 U	<0.00247 U	<0.00194 U	<0.00339 U	<0.00203 U	<0.00182 U	<0.00186 U	<0.00259 U	<0.00194 U
4,4'-DDE	72-55-9	**0.0033**	17	8.9	62	mg/kg	NA	NA	NA	<0.00194 U	<0.00242 U	<0.00247 U	<0.00194 U	<0.00339 U	<0.00203 U	<0.00182 U	<0.00186 U	<0.00259 U	<0.00194 U
4,4'-DDT	50-29-3	**0.0033**	136	7.9	47	mg/kg	NA	NA	NA	<0.00194 U	<0.00242 U	<0.00247 U	<0.00194 U	<0.00339 U	<0.00203 U	<0.00182 U	<0.00186 U	<0.00259 U	<0.00194 U
Aldrin	309-00-2	0.005	0.19	0.097	0.68	mg/kg	NA	NA	NA	<0.00194 U	<0.00242 U	<0.00247 U	<0.00194 U	<0.00339 U	<0.00203 U	<0.00182 U	<0.00186 U	<0.00259 U	<0.00194 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	0.48	3.4	mg/kg	NA	NA	NA	<0.00194 U	<0.00242 U	<0.00247 U	<0.00194 U	<0.00339 U	<0.00203 U	<0.00182 U	<0.00186 U	<0.00259 U	<0.00194 U
Alpha Chlordane	5103-71-9	0.094	2.9	4.2	24	mg/kg	NA	NA	NA	0.0195 D	<0.00242 U	<0.00247 U	<0.00194 U	<0.00339 U	<0.00203 U	<0.00182 U	<0.00186 U	<0.00259 U	<0.00194 U
Alpha Endosulfan	959-98-8	2.4	102	24	200	mg/kg	NA	NA	NA	<0.00194 U	<0.00242 U	<0.00247 U	<0.00194 U	<0.00339 U	<0.00203 U	<0.00182 U	<0.00186 U	<0.00259 U	<0.00194 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	0.36	3	mg/kg	NA	NA	NA	<0.00194 U	<0.00242 U	<0.00247 U	<0.00194 U	<0.00339 U	<0.00203 U	<0.00182 U	<0.00186 U	<0.00259 U	<0.00194 U
Beta Endosulfan	33213-65-9	2.4	102	24	200	mg/kg	NA	NA	NA	<0.00194 U	<0.00242 U	<0.00247 U	<0.00194 U	<0.00339 U	<0.00203 U	<0.00182 U	<0.00186 U	<0.00259 U	<0.00194 U
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	NS	mg/kg	NA	NA	NA	0.103 D	<0.0484 U	<0.0494 U	<0.0388 U	<0.0678 U	<0.0405 U	<0.0365 U	<0.0372 U	<0.0519 U	<0.0388 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	100	500	mg/kg	NA	NA	NA	<0.00194 U	<0.00242 U	<0.00247 U	<0.00194 U	<0.00339 U	<0.00203 U	<0.00182 U	<0.00186 U	<0.00259 U	<0.00194 U
Dieldrin	60-57-1	**0.005**	0.1	0.2	1.4	mg/kg	NA	NA	NA	<0.00194 U	<0.00242 U	<0.00247 U	<0.00194 U	<0.00339 U	<0.00203 U	<0.00182 U	<0.00186 U	<0.00259 U	<0.00194 U
Endosulfan Sulfate	1031-07-8	2.4	1000	24	200	mg/kg	NA	NA	NA	<0.00194 U	<0.00242 U	<0.00247 U	<0.00194 U	<0.00339 U	<0.00203 U	<0.00182 U	<0.00186 U	<0.00259 U	<0.00194 U
Endrin	72-20-8	0.014	0.06	11	89	mg/kg	NA	NA	NA	<0.00194 U	<0.00242 U	<0.00247 U	<0.00194 U	<0.00339 U	<0.00203 U	<0.00182 U	<0.00186 U	<0.00259 U	<0.00194 U
Endrin Aldehyde	7421-93-4	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.00194 U	<0.00242 U	<0.00247 U	<0.00194 U	<0.00339 U	<0.00203 U	<0.00182 U	<0.00186 U	<0.00259 U	<0.00194 U
Endrin Ketone	53494-70-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.00194 U	<0.00242 U	<0.00247 U	<0.00194 U	<0.00339 U	<0.00203 U	<0.00182 U	<0.00186 U	<0.00259 U	<0.00194 U
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	1.3	9.2	mg/kg	NA	NA	NA	<0.00194 U	<0.00242 U	<0.00247 U	<0.00194 U	<0.00339 U	<0.00203 U	<0.00182 U	<0.00186 U	<0.00259 U	<0.00194 U
Gamma-Chlordane	5566-34-7	NS	NS	NS	NS	mg/kg	NA	NA	NA	0.0212 D	<0.00242 U	<0.00247 U	<0.00194 U	<0.00339 U	<0.00203 U	<0.00182 U	<0.00186 U	<0.00259 U	<0.00194 U
Heptachlor	76-44-8	0.042	0.38	2.1	15	mg/kg	NA	NA	NA	<0.00194 U	<0.00242 U	<0.00247 U	<0.00194 U	<0.00339 U	<0.00203 U	<0.00182 U	<0.00186 U	<0.00259 U	<0.00194 U
Heptachlor Epoxide	1024-57-3	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.00194 U	<0.00242 U	<0.00247 U	<0.00194 U	<0.00339 U	<0.00203 U	<0.00182 U	<0.00186 U	<0.00259 U	<0.00194 U
Methoxychlor	72-43-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.00194 U	<0.00242 U	<0.00247 U	<0.00194 U	<0.00339 U	<0.00203 U	<0.00182 U	<0.00186 U	<0.00259 U	<0.00194 U
Toxaphene	8001-35-2	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.194 U	<0.242 U	<0.247 U	<0.194 U	<0.339 U	<0.203 U	<0.182 U	<0.186 U	<0.259 U	<0.194 U
Herbicides																			
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.0231 U	<0.0292 U	<0.0298 U	<0.0237 U	<0.0405 U	<0.0246 U	<0.0223 U	<0.0222 U	<0.0315 U	<0.0238 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.0231 U	<0.0292 U	<0.0298 U	<0.0237 U	<0.0405 U	<0.0246 U	<0.0223 U	<0.0222 U	<0.0315 U	<0.0238 U
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	100	500	mg/kg	NA	NA	NA	<0.0231 U	<0.0292 U	<0.0298 U	<0.0237 U	<0.0405 U	<0.0246 U	<0.0223 U	<0.0222 U	<0.0315 U	<0.0238 U
Polychlorinated Biphenyl																			
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.0196 U	<0.0244 U	<0.025 U	<0.0196 U	<0.0342 UJ	<0.0204 U	<0.0184 U	<0.0188 U	<0.0262 UJ	<0.0196 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.0196 U	<0.0244 U	<0.025 U	<0.0196 U	<0.0342 UJ	<0.0204 U	<0.0184 U	<0.0188 U	<0.0262 UJ	<0.0196 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.0196 U	<0.0244 U	<0.025 U	<0.0196 U	<0.0342 UJ	<0.0204 U	<0.0184 U	<0.0188 U	<0.0262 UJ	<0.0196 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.0196 U	<0.0244 U	<0.025 U	<0.0196 U	<0.0342 UJ	<0.0204 U	<0.0184 U	<0.0188 U	<0.0262 UJ	<0.0196 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.0196 U	<0.0244 U	<0.025 U	<0.0196 U	<0.0342 UJ	<0.0204 U	<0.0184 U	<0.0188 U	<0.0262 UJ	<0.0196 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.0196 U	<0.0244 U	<0.025 U	0.0198	<0.0342 UJ	<0.0204 U	<0.0184 U	<0.0188 U	<0.0262 UJ	<0.0196 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	0.0334	<0.0244 U	<0.025 U	<0.0196 U	<0.0342 UJ	<0.0204 U	0.0383	<0.0188 U	<0.0262 UJ	<0.0196 U
Total PCBs	1336-36-3	**0.1**	3.2	1	1	mg/kg	NA	NA	NA	0.0334	<0.0244 U	<0.025 U	0.0198	<0.0342 UJ	<0.0204 U	0.0383	<0.0188 U	<0.0262 UJ	<0.0196 U
Metals																			
Aluminum	7429-90-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	2,670	4,450	17,400	8,310	2,300	7,600	8,190	7,610	8,430	5,610
Antimony	7440-36-0	NS	NS	NS	NS	mg/kg	NA	NA	NA	<2.96 U	<3.69 U	<3.83 U	<2.97 U	<5.18 U	<3.1 U	<2.81 U	<2.85 U	<4.01 U	<3.03 U
Arsenic	7440-38-2	**13**	16	16	16	mg/kg	NA	NA	NA	2	8.55	3.91	4.55	<3.11 U	2.27	5.32	2.21	10.7	8.64
Barium	7440-39-3	**350**	820	400	400	mg/kg	NA	NA	NA	62.3	**494**	49.6	215	93.6	83.6	286	113	**470**	163
Beryllium	7440-41-7	7.2	47	72	590	mg/kg	NA	NA	NA	<0.059 U	0.555	<0.077 U	<0.059 U	<0.104 U	<0.062 U	<0.056 U	<0.057 U	0.366	<0.061 U
Cadmium	7440-43-9	**2.5**	7.5	4.3	9.3	mg/kg	NA	NA	NA	0.81	**2.73**	<0.46 U	1.47	1.67	<0.372 U	1.83	<0.341 U	0.584	1.8
Calcium	7440-70-2	NS	NS	NS	NS	mg/kg	NA	NA	NA	22,100 B	6,010 B	3,960 B	38,300	2,660	6,450	19,100	2,160	10,200	99,200
Chromium, Hexavalent	18540-29-9	**1**	19	110	400	mg/kg	NA	NA	NA	<0.592 U	<0.738 UJ	<0.766 U	<0.594 U	<1.04 U	<0.62 U	<0.562 U	<0.569 U	<0.802 U	<0.606 U
Chromium, Total	7440-47-3	NS	NS	NS	NS	mg/kg	NA	NA	NA	16.3	27	33.9	30.7	8.98	17.1	22	17	20.1	14.8
Chromium, Trivalent	16065-83-1	**30**	NS	180	1500	mg/kg	NA	NA	NA	16.3	27	**33.9**	**30.7**	8.98	17.1	22	17	20.1	14.8
Cobalt	7440-48-4	NS	NS	NS	NS	mg/kg	NA	NA	NA	3.34	13.8	12.3	11.4	2.99	6.74	7.25	6.73	13.3	4.82
Copper	7440-50-8	**50**	1720	270	270	mg/kg	NA	NA	NA	**86.6**	**190**	15.1	**831**	**80.1**	45.7	**159**	44.8	**136**	**52.8**
Cyanide	57-12-5	27	40	27	27	mg/kg	NA	NA	NA	<0.592 U	0.886	<0.768 U	<0.594 U	<1.04 UJ	<0.62 U	<0.562 U	<0.569 U	<0.802 U	<0.606 U
Iron	7439-89-6	NS	NS	NS	NS	mg/kg	NA	NA	NA	6,860	41,400	33,800	34,800	6,220	15,700	18,600	14,700	22,400	12,200
Lead	7439-92-1	**63**	450	400	1000	mg/kg	NA	NA	NA	**395**	**682**	14.7	**373**	**347**	**173**	**566**	**296**	**671**	**224**
Magnesium	7439-95-4	NS	NS	NS	NS	mg/kg	NA	NA	NA	10,800	544	8,920 B	13,000	443	2,630	6,140	1,900	735	34,400
Manganese	7439-96-5	**1600**	2000	2000	10000	mg/kg	NA	NA	NA	139	369	916	427	96	279	240	166	301	217
Mercury	7439-97-6	**0.18**	0.73	0.81	2.8	mg/kg	NA	NA	NA	0.118	**0.607**	<0.0468 U	**0.218**	0.165	**0.505**	**0.304**	0.0656	**0.34**	**0.494**
Nickel	7440-02-0	**30**	130	310	310	mg/kg	NA	NA	NA	10.7	**42.1**	29.5 J	**32.7**	4.98	12.1	19.4	12.2	29	22.6
Potassium	7440-09-7	NS	NS	NS	NS	mg/kg	NA	NA	NA	349	485	4,730	1,080 B	332 B	1,360 B	993 B	1,050 B	1,380 B	458 B
Selenium	7782-49-2	**3.9**	4	180	1500	mg/kg	NA	NA	NA	**8.54**	<3.69 U	<3.83 U	<2.97 U	<5.18 U	<3.1 U	<2.81 U	<2.85 U	<4.01 U	**10.2**
Silver	7440-22-4	**2**	8.3	180	1500	mg/kg	NA	NA	NA	<0.592 U	<0.738 U	<0.766 U	<0.594 U	<1.04 U	0.656	<0.562 U	<0.569 U	<0.802 U	<0.606 U
Sodium	7440-23-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	137	237	5,450	272	<104 U	648	164	163	672	91.7
Thallium	7440-28-0	NS	NS	NS	NS	mg/kg	NA	NA	NA	<2.96 U	<3.69 U	<3.83 U	<2.97 U	<5.18 U	<3.1 U	<2.81 U	<2.85 U	<4.01 U	<3.03 U
Vanadium	7440-62-2	NS	NS	NS	NS	mg/kg	NA	NA	NA	22.7	29.4	40.8	29.9	10.8	22	29.7	23.5	31.4	20.3
Zinc	7440-66-6	**109**	2480	10000	10000	mg/kg	NA	NA	NA	82.8	**594**	74.8	**730**	**196**	91.3	**381**	**117**	**403**	**337**
General Chemistry																			
Solids, Percent	SOLID	NS	NS	NS	NS	Percent	62.2	76	24.3	84.4	67.7	65.2	84.2	48.2	80.7	89	87.9	62.4	82.6
Perfluorooctanoic acids																			
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA	2991-50-6	NS	NS	NS	NS	mg/kg	NA	NA	NA	0.00104	<0.000342 U	<0.00037 U	<0.00028 U	<0.000442 U	<0.000243 U	<0.000268 U	<0.000239 U	<0.000383 U	<0.000275 U
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOS	2355-31-9	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.000281 U	<0.000342 U	<0.00037 U	<0.00028 U	<0.000442 U	<0.000243 U	<0.000268 U	<0.000239 U	<0.000383 U	<0.000275 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.000281 U	<0.000342 U	<0.00037 U	<0.00028 U	<0.000442 U	<0.000243 U	<0.000268 U	<0.000239 U	<0.000383 U	<0.000275 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	NS	mg/kg	NA	NA	NA	0.000807	0.00121	<0.00037 U	0.00158	0.00477	<0.000243 U	0.000714	<0.000239 U	<0.000383 U	<0.000275 U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.000281 U	<0.000342 U	<0.00037 U	<0.00028 U	<0.000442 U	<0.000243 U	<0.000268 U	<0.000239 U	<0.000383 U	<0.000275 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.000281 U	<0.000342 U	<0.00037 U	<0.00028 U	<0.000442 U	<0.000243 U	<0.000268 U	<0.000239 U	<0.000383 U	<0.000275 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.000281 U	<0.000342 U	<0.00037 U	<0.00028 U	<0.000442 U	<0.000243 U	<0.000268 U	<0.000239 U	<0.000383 U	<0.000275 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.000281 U	<0.000342 U	<0.00037 U	<0.00028 U	<0.000442 U	<0.000243 U	<0.000268 U	<0.000239 U	<0.000383 U	<0.000275 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.000281 U	<0.000342 U	<0.00037 U	<0.00028 U	<0.000442 U	<0.000243 U	<0.000268 U	<0.000239 U	<0.000383 U	<0.000275 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.000281 U	<0.000342 U	<0.00037 U	<0.00028 U	<0.000442 U	<0.000243 U	<0.000268 U	<0.000239 U	<0.000383 U	<0.000275 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.000281 U	<0.000342 U	<0.00037 U	<0.00028 U	<0.000442 U	<0.000243 U	<0.000268 U	<0.000239 U	<0.000383 U	<0.000275 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.000281 U	<0.000342 U	<0.00037 U	<0.00028 U	<0.000442 U	<0.000243 U	<0.000268 U	<0.000239 U	<0.000383 U	<0.000275 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.000281 U	<0.000342 U	<0.00037 U	<0.00028 U	<0.000442 U	<0.000243 U	<0.000268 U	<0.000239 U	<0.000383 U	<0.000275 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.044	0.44	mg/kg	NA	NA	NA	0.000354	0.000738	<0.00037 U	**0.00482**	**0.00777**	<0.000243 U	0.000326	0.000698	<0.000383 U	**0.000918**
Perfluorooctanoic Acid (PFOA)	335-67-1	0.00066	0.0011	0.033	0.5	mg/kg	NA	NA	NA	<0.000281 U	<0.000342 U	<0.00037 U	<0.00028 U	<0.000442 U	<0.000243 U	<0.000268 U	<0.000239 U	<0.000383 U	<0.000275 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.000281 U	<0.000342 U	<0.00037 U	0.000551	<0.000442 U	<0.000243 U	0.000399	<0.000239 U	<0.000383 U	<0.000275 U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.000281 U	<0.000342 U	<0.00037 U	<0.00028 U	<0.000442 U	<0.000243 U	<0.000268 U	<0.000239 U	<0.000383 U	<0.000275 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.000281 U	<0.000342 U	<0.00037 U	<0.00028 U	<0.000442 U	<0.000243 U	<0.000268 U	<0.000239 U	<0.000383 U	<0.000275 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.000281 U	<0.000342 U	<0.00037 U	<0.00028 U	<0.000442 U	<0.000243 U	<0.000268 U	<0.000239 U	<0.000383 U	<0.000275 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FT	39108-34-4	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.000281 U	<0.000342 U	<0.00037 U	<0.00028 U	<0.000442 U	<0.000243 U	<0.000268 U	<0.000239 U	<0.000383 U	<0.000275 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FT	27619-97-2	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.000281 U	<0.000342 U	<0.00037 U	<0.00028 U	<0.000442 U	<0.000243 U	<0.000268 U	<0.000239 U	<0.000383 U	<0.000275 U

Notes provided on Page 25.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3B
Remedial Investigation Report
Soil Sample Analytical Results - Block 1825 (F)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	F-SB103	F-SB103	F-SB104	F-SB104	F-SB104	F-SB104	F-SB104	F-SB104	F-SB105	F-SB105	F-SB105	F-SB106	F-SB106
						Sample Name	F-SB103_6-8	F-SB103_9-11	F-SB104_0-2	F-SB104_6-8	F-SB104_10-12	F-SB104_0-2	F-SB104_6-8	F-SB104_10-12	F-SB105_0-2	F-SB105_3.5-5.5	F-SB105_10-12	F-SB106_0-2	F-SB106_6-8
						Sample Date	10/04/2021	10/04/2021	09/21/2021	09/21/2021	09/21/2021	10/04/2021	10/04/2021	10/04/2021	09/16/2021	09/16/2021	09/16/2021	09/17/2021	09/17/2021
						Sample Depth	6-8	9-11	0-2	6-8	10-12	0-2	6-8	10-12	0-2	3.5-5.5	10-12	0-2	6-8
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																			
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 UJ	<0.0025 UJ	<0.0047 UJ	<0.0029 U	<0.0041 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	500	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
1,1-Dichloroethane	75-34-3	0.27	0.27	26	240	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
1,1-Dichloroethene	75-35-4	0.33	0.33	100	500	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
1,2,4-Trimethylbenzene	95-63-6	3.6	3.6	52	190	mg/kg	0.0033 J	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	0.02	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	0.24 J	<0.0041 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	500	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
1,2-Dichloroethane	107-06-2	0.02	0.02	3.1	30	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	52	190	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	0.01	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	0.14 J	<0.0041 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	280	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	130	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.065 U	<0.082 U	<0.049 U	<0.058 U	<0.094 U	<0.047 U	<0.042 U	<0.059 U	<0.045 U	<0.05 U	<0.093 U	<0.059 U	<0.083 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	0.0088	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
Acetone	67-64-1	**0.05**	0.05	100	500	mg/kg	0.045	**0.054**	**0.058**	**0.22**	0.047	**0.36 J**	0.02	0.033	**0.057**	0.019	**0.058**	**0.096 J**	**0.16**
Acrolein	107-02-8	NS	NS	NS	NS	mg/kg	<0.0065 U	<0.0082 U	<0.0049 U	<0.0058 U	<0.0094 U	<0.0047 U	<0.0042 U	<0.0059 U	<0.0045 U	<0.005 U	<0.0093 U	<0.0059 U	<0.0083 U
Acrylonitrile	107-13-1	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
Benzene	71-43-2	**0.06**	0.06	4.8	44	mg/kg	0.0045 J	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	0.0035 J	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
Bromochloromethane	74-97-5	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
Bromodichloromethane	75-27-4	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
Bromoform	75-25-2	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 UJ	<0.0025 UJ	<0.0047 UJ	<0.0029 UJ	<0.0041 U
Bromomethane	74-83-9	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
Carbon Disulfide	75-15-0	NS	NS	NS	NS	mg/kg	<0.0033 U	0.011	<0.0025 U	0.008	0.011	<0.0023 U	<0.0021 U	0.015	<0.0023 U	0.0035 J	0.0089 J	0.013 J	<0.0041 U
Carbon Tetrachloride	56-23-5	0.76	0.76	2.4	22	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 UJ	<0.0025 UJ	<0.0047 UJ	<0.0029 U	<0.0041 U
Chlorobenzene	108-90-7	1.1	1.1	100	500	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
Chloroethane	75-00-3	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
Chloroform	67-66-3	0.37	0.37	49	350	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
Chloromethane	74-87-3	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	100	500	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
Cyclohexane	110-82-7	NS	NS	NS	NS	mg/kg	0.019	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	0.0033 J	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	0.05 J	0.1
Dibromochloromethane	124-48-1	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
Dibromomethane	74-95-3	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
Ethylbenzene	100-41-4	**1**	1	41	390	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	0.0029 J	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	0.0035 J	<0.0041 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	0.015 J	0.014
M,P-Xylene	179601-23-1	NS	NS	NS	NS	mg/kg	<0.0065 U	<0.0082 U	<0.0049 U	<0.0058 U	<0.0094 U	0.015	<0.0042 U	<0.0059 U	<0.0045 U	<0.005 U	<0.0093 U	0.025 J	<0.0083 U
Methyl Acetate	79-20-9	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	**0.12**	0.12	100	500	mg/kg	0.007	0.0084	0.015	0.063	0.007 J	0.11	0.0032 J	0.0056 J	0.011	<0.0025 U	0.011	0.018 J	0.036
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	0.0074	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
Methylcyclohexane	108-87-2	NS	NS	NS	NS	mg/kg	0.03	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	0.0062	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	0.41 J	0.015
Methylene Chloride	75-09-2	**0.05**	0.05	100	500	mg/kg	<0.0065 U	<0.0082 U	0.02	0.0099 J	0.021	<0.0047 U	<0.0042 U	<0.0059 U	0.011 J	<0.0099 U	<0.019 U	0.022 J	<0.0083 U
n-Butylbenzene	104-51-8	12	12	100	500	mg/kg	<0.0033 UJ	<0.0041 UJ	<0.0025 UJ	<0.0029 UJ	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	0.014 J	<0.0041 U
n-Propylbenzene	103-65-1	**3.9**	3.9	100	500	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	0.021 J	<0.0041 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	0.016	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	0.0047 J	<0.0041 U
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	0.0061 J	<0.0041 U
Sec-Butylbenzene	135-98-8	11	11	100	500	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	0.01 J	<0.0041 U
Styrene	100-42-5	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
T-Butylbenzene	98-06-6	5.9	5.9	100	500	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 UJ	<0.0025 UJ	<0.0047 UJ	0.0065 J	<0.0041 U
Tert-Butyl Alcohol	75-65-0	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0041 U	<0.0025 UJ	<0.0029 UJ	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 UJ	<0.0025 UJ	<0.0047 UJ	<0.0029 U	<0.0041 U
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	100	500	mg/kg	<0.0033 U	0.0072 J	<0.0025 U	<0.0029 U	<0.0047 U	0.0052	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	19	150	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 UJ	<0.0025 UJ	<0.0047 UJ	<0.0029 U	<0.0041 U
Toluene	108-88-3	**0.7**	0.7	100	500	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	0.0049	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	0.0087 J	<0.0041 U
Total Xylenes	1330-20-7	**0.26**	1.6	100	500	mg/kg	<0.0098 U	<0.012 U	<0.0074 U	<0.0087 U	<0.014 U	0.031	<0.0062 U	<0.0088 U	<0.0068 U	<0.0075 U	<0.014 U	0.03 J	<0.012 U
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	100	500	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 UJ	<0.0025 UJ	<0.0047 UJ	<0.0029 U	<0.0041 U
Trichloroethene (TCE)	79-01-6	0.47	0.47	21	200	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U
Vinyl Chloride	75-01-4	0.02	0.02	0.9	13	mg/kg	<0.0033 U	<0.0041 U	<0.0025 U	<0.0029 U	<0.0047 U	<0.0023 U	<0.0021 U	<0.0029 U	<0.0023 U	<0.0025 U	<0.0047 U	<0.0029 U	<0.0041 U

Notes provided on Page 25.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3B
Remedial Investigation Report
Soil Sample Analytical Results - Block 1825 (F)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	F-SB103	F-SB103	F-SB104	F-SB104	F-SB104	F-SB104	F-SB104	F-SB104	F-SB105	F-SB105	F-SB105	F-SB106	F-SB106
						Sample Name	F-SB103_6-8	F-SB103_9-11	F-SB104_0-2	F-SB104_6-8	F-SB104_10-12	F-SB104_0-2	F-SB104_6-8	F-SB104_10-12	F-SB105_0-2	F-SB105_3.5-5.5	F-SB105_10-12	F-SB106_0-2	F-SB106_6-8
						Sample Date	10/04/2021	10/04/2021	09/21/2021	09/21/2021	09/21/2021	10/04/2021	10/04/2021	10/04/2021	09/16/2021	09/16/2021	09/16/2021	09/17/2021	09/17/2021
						Sample Depth	6-8	9-11	0-2	6-8	10-12	0-2	6-8	10-12	0-2	3.5-5.5	10-12	0-2	6-8
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																			
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	NS	mg/kg	<0.12 U	<0.13 U	<0.094 U	<0.0939 U	<0.164 U	<0.0961 U	<0.0972 U	<0.123 U	<0.105 U	<0.108 U	<0.154 U	<0.096 U	<0.126 U
1,2-Diphenylhydrazine	122-66-7	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.0194 U	<0.019 U	<0.0189 U	<0.0196 U	<0.0196 U	<0.0192 U	<0.0196 U	<0.0196 U	<0.0192 U	<0.0192 U	<0.0196 U	<0.0185 U	<0.0185 U
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	NS	mg/kg	<0.12 U	<0.13 U	<0.094 U	<0.0939 U	<0.164 U	<0.0961 U	<0.0972 U	<0.123 U	<0.105 U	<0.108 U	<0.154 U	<0.096 UJ	<0.126 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 UJ	<0.0633 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 UJ	<0.0633 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 UJ	<0.0633 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 UJ	<0.0633 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	NS	mg/kg	<0.12 U	<0.13 U	<0.094 U	<0.0939 U	<0.164 U	<0.0961 U	<0.0972 U	<0.123 U	<0.105 U	<0.108 U	<0.154 U	<0.096 UJ	<0.126 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
2-Chlorophenol	95-57-8	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 UJ	<0.0633 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	0.114 D	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	0.116 D	0.212 D
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	500	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 UJ	<0.0633 U
2-Nitroaniline	88-74-4	NS	NS	NS	NS	mg/kg	<0.12 U	<0.13 U	<0.094 U	<0.0939 U	<0.164 U	<0.0961 U	<0.0972 U	<0.123 U	<0.105 U	<0.108 U	<0.154 U	<0.096 U	<0.126 U
2-Nitrophenol	88-75-5	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 UJ	<0.0633 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	0.33	0.33	100	500	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 UJ	<0.0633 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
3-Nitroaniline	99-09-2	NS	NS	NS	NS	mg/kg	<0.12 U	<0.13 U	<0.094 U	<0.0939 U	<0.164 U	<0.0961 U	<0.0972 U	<0.123 U	<0.105 U	<0.108 U	<0.154 U	<0.096 U	<0.126 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	NS	mg/kg	<0.12 U	<0.13 U	<0.094 U	<0.0939 U	<0.164 U	<0.0961 U	<0.0972 U	<0.123 U	<0.105 U	<0.108 U	<0.154 U	<0.096 UJ	<0.126 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 UJ	<0.0633 U
4-Chloroaniline	106-47-8	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
4-Nitroaniline	100-01-6	NS	NS	NS	NS	mg/kg	<0.12 U	<0.13 U	<0.094 U	<0.0939 U	<0.164 U	<0.0961 U	<0.0972 U	<0.123 U	<0.105 U	<0.108 U	<0.154 U	<0.096 U	<0.126 U
4-Nitrophenol	100-02-7	NS	NS	NS	NS	mg/kg	<0.12 U	<0.13 U	<0.094 U	<0.0939 U	<0.164 U	<0.0961 U	<0.0972 U	<0.123 U	<0.105 U	<0.108 U	<0.154 U	<0.096 UJ	<0.126 U
Acenaphthene	83-32-9	20	98	100	500	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	0.0691 JD	<0.0487 U	<0.0618 U	0.233 D	<0.0543 U	<0.0771 U	0.0798 JD	<0.0633 U
Acenaphthylene	208-96-8	100	107	100	500	mg/kg	0.118 JD	<0.0652 U	0.109 D	<0.0471 U	<0.0821 U	<0.0481 U	0.103 D	<0.0618 U	0.163 D	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
Acetophenone	98-86-2	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	NS	NS	NS	mg/kg	<0.24 U	<0.261 U	<0.188 U	<0.188 U	<0.328 U	<0.192 U	<0.195 U	<0.247 U	<0.21 U	<0.217 U	<0.308 U	<0.192 U	<0.253 U
Anthracene	120-12-7	100	1000	100	500	mg/kg	0.351 D	<0.0652 U	0.168 D	<0.0471 U	<0.0821 U	0.177 D	0.235 D	<0.0618 U	1.72 D	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
Atrazine	1912-24-9	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
Benzaldehyde	100-52-7	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
Benzidine	92-87-5	NS	NS	NS	NS	mg/kg	<0.24 U	<0.261 U	<0.188 U	<0.188 U	<0.328 U	<0.192 U	<0.195 U	<0.247 U	<0.21 U	<0.217 U	<0.308 U	<0.192 U	<0.253 U
Benzo(a)anthracene	**1**	1	1	5.6		mg/kg	**1.9 D**	<0.0652 U	0.609 D	0.122 D	<0.0821 U	0.395 D	0.805 D	<0.0618 U	**3.68 D**	<0.0543 U	<0.0771 U	0.0484 JD	0.224 D
Benzo(a)pyrene	**1**	22	1	1		mg/kg	**1.93 D**	<0.0652 U	0.702 D	0.135 D	<0.0821 U	0.367 D	0.623 D	<0.0618 U	**3.3 D**	<0.0543 U	<0.0771 U	0.0568 JD	0.216 D
Benzo(b)fluoranthene	**1**	1.7	1	5.6		mg/kg	**1.6 D**	<0.0652 U	0.751 D	0.143 D	<0.0821 U	0.337 D	0.385 D	<0.0618 U	**2.96 D**	<0.0543 U	<0.0771 U	0.0507 JD	0.189 D
Benzo(g,h,i)Perylene	191-24-2	100	1000	100	500	mg/kg	0.877 D	<0.0652 U	0.403 D	0.0841 JD	<0.0821 U	0.207 D	0.308 D	<0.0618 U	1.7 D	<0.0543 U	<0.0771 U	<0.0481 U	0.168 D
Benzo(k)fluoranthene	**0.8**	1.7	3.9	56		mg/kg	**1.42 D**	<0.0652 U	0.557 D	0.112 D	<0.0821 U	0.236 D	0.395 D	<0.0618 U	**2.44 D**	<0.0543 U	<0.0771 U	<0.0481 U	0.165 D
Benzoic Acid	65-85-0	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
Benzyl Alcohol	100-51-6	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	0.121 D	<0.0471 U	<0.0821 U	0.194 D	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	0.0821 JD	<0.0633 U
Caprolactam	105-60-2	NS	NS	NS	NS	mg/kg	<0.12 U	<0.13 U	<0.094 U	<0.0939 U	<0.164 U	<0.0961 U	<0.0972 U	<0.123 U	<0.105 U	<0.108 U	<0.154 U	<0.096 U	<0.126 U
Carbazole	86-74-8	NS	NS	NS	NS	mg/kg	0.314 D	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	0.0637 JD	<0.0487 U	<0.0618 U	0.279 D	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
Chrysene	218-01-9	**1**	1	3.9	56	mg/kg	**1.76 D**	<0.0652 U	0.689 D	0.155 D	<0.0821 U	0.34 D	0.773 D	<0.0618 U	**3.13 D**	<0.0543 U	<0.0771 U	0.0614 JD	0.215 D
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.33	0.56	mg/kg	**0.409 D**	<0.0652 U	0.133 D	<0.0471 U	<0.0821 U	0.0607 JD	0.104 D	<0.0618 U	**0.781 D**	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
Dibenzofuran	132-64-9	7	210	59	350	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	0.185 D	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
Dibutyl phthalate	84-74-2	NS	NS	NS	NS	mg/kg	0.124 D	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
Diethyl phthalate	84-66-2	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
Dimethyl phthalate	131-11-3	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
Dioctyl phthalate	117-84-0	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
Diphenylamine	122-39-4	NS	NS	NS	NS	mg/kg	<0.12 U	<0.13 U	<0.094 U	<0.0939 U	<0.164 U	<0.0961 U	<0.0972 U	<0.123 U	<0.105 U	<0.108 U	<0.154 U	<0.096 U	<0.126 U
Fluoranthene	206-44-0	100	1000	100	500	mg/kg	3.38 D	<0.0652 U	1.17 D	0.305 D	<0.0821 U	0.805 D	0.972 D	<0.0618 U	7.39 D	0.0615 JD	<0.0771 U	0.105 D	0.289 D
Fluorene	86-73-7	30	386	100	500	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	0.113 D	<0.0487 U	<0.0618 U	0.57 D	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
Hexachlorobenzene	118-74-1	**0.33**	3.2	1.2	6	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	**0.465 D**	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
Hexachloroethane	67-72-1	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	0.5	5.6	mg/kg	**1.27 D**	<0.0652 U	**0.559 D**	0.111 D	<0.0821 U	0.268 D	0.354 D	<0.0618 U	**2.39 D**	<0.0543 U	<0.0771 U	<0.0481 U	0.172 D
Isophorone	78-59-1	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
Naphthalene	91-20-3	12	12	100	500	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	0.12 D	<0.0821 U	0.0829 JD	<0.0487 U	<0.0618 U	0.0544 JD	<0.0543 U	<0.0771 U	0.0744 JD	0.2 D
Nitrobenzene	98-95-3	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
n-Nitrosodimethylamine	62-75-9	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	NS	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 U	<0.0633 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	6.7	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 UJ	<0.0633 U
Phenanthrene	85-01-8	100	1000	100	500	mg/kg	0.848 D	<0.0652 U	0.399 D	0.143 D	<0.0821 U	0.623 D	0.316 D	<0.0618 U	4.57 D	<0.0543 U	<0.0771 U	0.0936 JD	0.143 D
Phenol	108-95-2	0.33	0.33	100	500	mg/kg	<0.06 U	<0.0652 U	<0.0471 U	<0.0471 U	<0.0821 U	<0.0481 U	<0.0487 U	<0.0618 U	<0.0524 U	<0.0543 U	<0.0771 U	<0.0481 UJ	<0.0633 U
Pyrene	129-00-0	100	1000	100	500	mg/kg	2.79 D	<0.0652 U	1.11 D	0.264 D	<0.0821 U	0.687 D	1.42 D	<0.0618 U	5.63 D	0.0805 JD	<0.0771 U	0.109 D	0.332 D
Pyridine	110-86-1	NS	NS	NS	NS	mg/kg	<0.24 U	<0.261 U	<0.188 U	<0.188 U	<0.328 U	<0.192 U	<0.195 U	<0.247 U	<0.21 U	<0.217 U	<0.308 U	<0.192 U	<0.253 U

Notes provided on Page 25.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3B
Remedial Investigation Report
Soil Sample Analytical Results - Block 1825 (F)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	F-SB103	F-SB103	F-SB104	F-SB104	F-SB104	F-SB104	F-SB104	F-SB104	F-SB105	F-SB105	F-SB105	F-SB106	F-SB106
						Sample Name	F-SB103_6-8	F-SB103_9-11	F-SB104_0-2	F-SB104_6-8	F-SB104_10-12	F-SB104_0-2	F-SB104_6-8	F-SB104_10-12	F-SB105_0-2	F-SB105_3.5-5.5	F-SB105_10-12	F-SB106_0-2	F-SB106_6-8
						Sample Date	10/04/2021	10/04/2021	09/21/2021	09/21/2021	09/21/2021	10/04/2021	10/04/2021	10/04/2021	09/16/2021	09/16/2021	09/16/2021	09/17/2021	09/17/2021
						Sample Depth	6-8	9-11	0-2	6-8	10-12	0-2	6-8	10-12	0-2	3.5-5.5	10-12	0-2	6-8
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Petroleum Hydrocarbons																			
Total Petroleum Hydrocarbons	TPH	NS	NS	NS	NS	UNKNOWN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides																			
4,4'-DDD	72-54-8	**0.0033**	14	13	92	mg/kg	**0.00917 D**	<0.00259 U	<0.00185 U	<0.00188 U	<0.00318 U	<0.00194 U	<0.00192 U	<0.00247 U	<0.00206 U	<0.00216 U	<0.0031 U	<0.00192 U	<0.00252 U
4,4'-DDE	72-55-9	**0.0033**	17	8.9	62	mg/kg	<0.00232 U	<0.00259 U	<0.00185 U	<0.00188 U	<0.00318 U	**0.0131 D**	<0.00192 U	<0.00247 U	<0.00206 U	<0.00216 U	<0.0031 U	<0.00192 U	<0.00252 U
4,4'-DDT	50-29-3	**0.0033**	136	7.9	47	mg/kg	<0.00232 U	<0.00259 U	<0.00185 U	<0.00188 U	<0.00318 U	<0.00194 U	<0.00192 U	<0.00247 U	<0.00206 U	<0.00216 U	<0.0031 U	<0.00192 U	<0.00252 U
Aldrin	309-00-2	0.005	0.19	0.097	0.68	mg/kg	<0.00232 U	<0.00259 U	<0.00185 U	<0.00188 U	<0.00318 U	<0.00194 U	<0.00192 U	<0.00247 U	<0.00206 U	<0.00216 U	<0.0031 U	<0.00192 U	<0.00252 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	0.48	3.4	mg/kg	<0.00232 U	<0.00259 U	<0.00185 U	<0.00188 U	<0.00318 U	<0.00194 U	<0.00192 U	<0.00247 U	<0.00206 U	<0.00216 U	<0.0031 U	<0.00192 U	<0.00252 U
Alpha Chlordane	5103-71-9	0.094	2.9	4.2	24	mg/kg	<0.00232 U	<0.00259 U	<0.00185 U	<0.00188 U	<0.00318 U	0.0126 D	<0.00192 U	<0.00247 U	<0.00206 U	<0.00216 U	<0.0031 U	<0.00192 U	<0.00252 U
Alpha Endosulfan	959-98-8	2.4	102	24	200	mg/kg	<0.00232 U	<0.00259 U	<0.00185 U	<0.00188 U	<0.00318 U	<0.00194 U	<0.00192 U	<0.00247 U	<0.00206 U	<0.00216 U	<0.0031 U	<0.00192 U	<0.00252 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	0.36	3	mg/kg	<0.00232 U	<0.00259 U	<0.00185 U	<0.00188 U	<0.00318 U	<0.00194 U	<0.00192 U	<0.00247 U	<0.00206 U	<0.00216 U	<0.0031 U	<0.00192 U	<0.00252 U
Beta Endosulfan	33213-65-9	2.4	102	24	200	mg/kg	<0.00232 U	<0.00259 U	<0.00185 U	<0.00188 U	<0.00318 U	<0.00194 U	<0.00192 U	<0.00247 U	<0.00206 U	<0.00216 U	<0.0031 U	<0.00192 U	<0.00252 U
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	NS	mg/kg	<0.0464 U	<0.0518 U	<0.0371 U	<0.0375 U	<0.0635 U	0.0881 D	<0.0383 U	<0.0494 U	<0.0413 U	<0.0431 U	<0.0621 U	<0.0385 U	<0.0504 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	100	500	mg/kg	<0.00232 U	<0.00259 U	<0.00185 U	<0.00188 U	<0.00318 U	<0.00194 U	<0.00192 U	<0.00247 U	<0.00206 U	<0.00216 U	<0.0031 U	<0.00192 U	<0.00252 U
Dieldrin	60-57-1	**0.005**	0.1	0.2	1.4	mg/kg	<0.00232 U	<0.00259 U	<0.00185 U	<0.00188 U	<0.00318 U	<0.00194 U	<0.00192 U	<0.00247 U	<0.00206 U	<0.00216 U	<0.0031 U	<0.00192 U	<0.00252 U
Endosulfan Sulfate	1031-07-8	2.4	1000	24	200	mg/kg	<0.00232 U	<0.00259 U	<0.00185 U	<0.00188 U	<0.00318 U	<0.00194 U	<0.00192 U	<0.00247 U	<0.00206 U	<0.00216 U	<0.0031 U	<0.00192 U	<0.00252 U
Endrin	72-20-8	0.014	0.06	11	89	mg/kg	<0.00232 U	<0.00259 U	<0.00185 U	<0.00188 U	<0.00318 U	<0.00194 U	<0.00192 U	<0.00247 U	<0.00206 U	<0.00216 U	<0.0031 U	<0.00192 U	<0.00252 U
Endrin Aldehyde	7421-93-4	NS	NS	NS	NS	mg/kg	<0.00232 U	<0.00259 U	<0.00185 U	<0.00188 U	<0.00318 U	<0.00194 U	<0.00192 U	<0.00247 U	<0.00206 U	<0.00216 U	<0.0031 U	<0.00192 U	<0.00252 U
Endrin Ketone	53494-70-5	NS	NS	NS	NS	mg/kg	<0.00232 U	<0.00259 U	<0.00185 U	<0.00188 U	<0.00318 U	<0.00194 U	<0.00192 U	<0.00247 U	<0.00206 U	<0.00216 U	<0.0031 U	<0.00192 U	<0.00252 U
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	1.3	9.2	mg/kg	<0.00232 U	<0.00259 U	<0.00185 U	<0.00188 U	<0.00318 U	<0.00194 U	<0.00192 U	<0.00247 U	<0.00206 U	<0.00216 U	<0.0031 U	<0.00192 U	<0.00252 U
Gamma-Chlordane	5566-34-7	NS	NS	NS	NS	mg/kg	<0.00232 U	<0.00259 U	<0.00185 U	<0.00188 U	<0.00318 U	0.0196 D	<0.00192 U	<0.00247 U	<0.00206 U	<0.00216 U	<0.0031 U	<0.00192 U	<0.00252 U
Heptachlor	76-44-8	0.042	0.38	2.1	15	mg/kg	<0.00232 U	<0.00259 U	<0.00185 U	<0.00188 U	<0.00318 U	<0.00194 U	<0.00192 U	<0.00247 U	<0.00206 U	<0.00216 U	<0.0031 U	<0.00192 U	<0.00252 U
Heptachlor Epoxide	1024-57-3	NS	NS	NS	NS	mg/kg	<0.00232 U	<0.00259 U	<0.00185 U	<0.00188 U	<0.00318 U	<0.00194 U	<0.00192 U	<0.00247 U	<0.00206 U	<0.00216 U	<0.0031 U	<0.00192 U	<0.00252 U
Methoxychlor	72-43-5	NS	NS	NS	NS	mg/kg	<0.00232 U	<0.00259 U	<0.00185 U	<0.00188 U	<0.00318 U	<0.00194 U	<0.00192 U	<0.00247 U	<0.00206 U	<0.00216 U	<0.0031 U	<0.00192 U	<0.00252 U
Toxaphene	8001-35-2	NS	NS	NS	NS	mg/kg	<0.232 U	<0.259 U	<0.185 U	<0.188 U	<0.318 U	<0.194 U	<0.192 U	<0.247 U	<0.206 U	<0.216 U	<0.31 U	<0.192 U	<0.252 U
Herbicides																			
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	NS	mg/kg	<0.028 U	<0.0309 U	<0.0223 U	<0.0224 U	<0.0385 U	<0.0195 U	<0.0192 U	<0.025 U	<0.0251 U	<0.0258 U	<0.037 U	<0.0234 U	<0.031 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	NS	mg/kg	<0.028 U	<0.0309 U	<0.0223 U	<0.0224 U	<0.0385 U	<0.0195 U	<0.0192 U	<0.025 U	<0.0251 U	<0.0258 U	<0.037 U	<0.0234 U	<0.031 U
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	100	500	mg/kg	<0.028 U	<0.0309 U	<0.0223 U	<0.0224 U	<0.0385 U	<0.0195 U	<0.0192 U	<0.025 U	<0.0251 U	<0.0258 U	<0.037 U	<0.0234 U	<0.031 U
Polychlorinated Biphenyl																			
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	NS	mg/kg	<0.0234 U	<0.0262 U	<0.0187 U	<0.0189 UJ	<0.0321 U	<0.0196 U	<0.0193 U	<0.0249 U	<0.0208 U	<0.0218 U	<0.0313 UJ	<0.0194 U	<0.0265 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	NS	mg/kg	<0.0234 U	<0.0262 U	<0.0187 U	<0.0189 UJ	<0.0321 U	<0.0196 U	<0.0193 U	<0.0249 U	<0.0208 U	<0.0218 U	<0.0313 UJ	<0.0194 U	<0.0255 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	NS	mg/kg	<0.0234 U	<0.0262 U	<0.0187 U	<0.0189 UJ	<0.0321 U	<0.0196 U	<0.0193 U	<0.0249 U	<0.0208 U	<0.0218 U	<0.0313 UJ	<0.0194 U	<0.0255 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	NS	mg/kg	<0.0234 U	<0.0262 U	<0.0187 U	<0.0189 UJ	<0.0321 U	<0.0196 U	<0.0193 U	<0.0249 U	<0.0208 U	<0.0218 U	<0.0313 UJ	<0.0194 U	<0.0255 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	NS	mg/kg	<0.0234 U	<0.0262 U	<0.0187 U	<0.0189 UJ	<0.0321 U	<0.0196 U	<0.0193 U	<0.0249 U	<0.0208 U	<0.0218 U	<0.0313 UJ	<0.0194 U	<0.0255 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	NS	mg/kg	<0.0234 U	<0.0262 U	<0.0187 U	<0.0189 UJ	<0.0321 U	<0.0196 U	<0.0193 U	<0.0249 U	0.0305	<0.0218 U	<0.0313 UJ	<0.0194 U	<0.0255 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	NS	mg/kg	<0.0234 U	<0.0262 U	<0.0187 U	<0.0189 UJ	<0.0321 U	0.0294	<0.0193 U	<0.0249 U	0.0298	<0.0218 U	<0.0313 UJ	<0.0194 U	<0.0255 U
Total PCBs	1336-36-3	**0.1**	3.2	1	1	mg/kg	<0.0234 U	<0.0262 U	<0.0187 U	<0.0189 UJ	<0.0321 U	0.0294	<0.0193 U	<0.0249 U	0.0603	<0.0218 U	<0.0313 UJ	<0.0194 U	<0.0255 U
Metals																			
Aluminum	7429-90-5	NS	NS	NS	NS	mg/kg	5,200	15,700	8,730	5,740	23,800	7,570	8,480	16,900	6,570	4,930	21,100	8,010	5,190
Antimony	7440-36-0	NS	NS	NS	NS	mg/kg	3.83	4.8 J	<2.84 U	<2.86 U	<4.96 U	<2.96 U	4.76	6.1	6.33 J	<3.29 U	<4.73 U	<2.94 U	<3.9 U
Arsenic	7440-38-2	**13**	16	16	16	mg/kg	**14.6**	3.21 J	2.8	5.45	5	4.79	<1.75 U	6.43	5.05 J	7.94	12.4	5.81	7.05
Barium	7440-39-3	**350**	820	400	400	mg/kg	**427**	51.4	193	**850**	73.7	158	**559**	55.4	**412 J**	174	71.1	**478**	**877**
Beryllium	7440-41-7	7.2	47	72	590	mg/kg	<0.072 U	<0.079 U	<0.057 U	<0.057 U	<0.099 U	<0.059 U	<0.058 U	<0.075 U	<0.064 U	<0.066 U	<0.095 U	<0.059 U	0.182
Cadmium	7440-43-9	**2.5**	7.5	4.3	9.3	mg/kg	**3.51**	<0.473 U	0.947	1.25	<0.595 U	1.16	1.27	<0.452 U	**6.02 J**	<0.395 U	<0.568 U	**2.86**	**4.78**
Calcium	7440-70-2	NS	NS	NS	NS	mg/kg	12,800	4,380	7,750 B	7,540 B	3,570 B	11,900	8,520 B	3,670	24,800 J	5,610 B	3,650 B	36,500 B	38,300 B
Chromium, Hexavalent	18540-29-9	**1**	19	110	400	mg/kg	<0.722 U	<0.788 U	<0.567 U	<0.572 U	<0.991 U	<0.591 U	<0.585 U	<0.754 U	<0.636 U	<0.658 U	<0.946 U	<0.587 U	**3.8**
Chromium, Total	7440-47-3	NS	NS	NS	NS	mg/kg	46.4	33	21	67.5	45.7	25.5	43	36	46.5 J	37.9	43.9	39.4	33.7
Chromium, Trivalent	16065-83-1	**30**	NS	180	1500	mg/kg	**46.4**	**33**	21	**67.5**	**45.7**	25.5	**43**	**36**	**46.5**	**37.9**	**43.9**	**39.4**	29.9
Cobalt	7440-48-4	NS	NS	NS	NS	mg/kg	8.74	12.3	8.59	6.08	14.7	12.8	11.3	12.4	7.67	11	15.6	8.42	7.02
Copper	7440-50-8	**50**	1720	270	270	mg/kg	**252**	16.2	**90.2**	**90.2**	30.8	**224**	**191**	24	**1,250 J**	**351**	38.1	**188**	**315**
Cyanide	57-12-5	27	40	27	27	mg/kg	9.94	<0.788 U	<0.567 U	<0.572 U	<0.991 U	<0.591 U	<0.585 U	<0.754 U	<0.636 U	<0.658 U	<0.946 U	<0.587 U	<0.779 U
Iron	7439-89-6	NS	NS	NS	NS	mg/kg	46,300	31,400	15,700	13,400	37,100	22,400	49,900	32,900	29,400	98,900	39,900	23,600	26,300
Lead	7439-92-1	**63**	450	400	1000	mg/kg	**729**	17.1 J	**321**	**627**	38.5	**371**	**993**	33.1	**1,420**	**270**	45.6	**670**	**3,020**
Magnesium	7439-95-4	NS	NS	NS	NS	mg/kg	2,610	8,820	3,980 B	1,610 B	9,970 B	2,620	2,180	8,590	5,750	924 B	10,100 B	3,900	12,800
Manganese	7439-96-5	**1600**	2000	2000	10000	mg/kg	232	927	332	229	919	407	447	870	202 J	570	1,080	290	171
Mercury	7439-97-6	**0.18**	0.73	0.81	2.8	mg/kg	**1.93**	0.0801	**0.703**	**0.9**	**0.251**	**0.585**	**0.194**	0.129	**1.13**	**0.534**	0.0733	0.104	**3.55**
Nickel	7440-02-0	**30**	130	310	310	mg/kg	**57.4**	26	19.8 J	16.9 J	**30.3 J**	**42 J**	**61.9 J**	26.9 J	**41.1 J**	**73.5**	**34.8**	**31.3**	24
Potassium	7440-09-7	NS	NS	NS	NS	mg/kg	783 B	4,020 B	825	568	6,900	910 B	1,500	4,240 B	740 B	585	5,530	1,950	696
Selenium	7782-49-2	**3.9**	4	180	1500	mg/kg	<3.61 U	<3.94 U	<2.84 U	<2.86 U	<4.96 U	<2.96 U	<2.92 U	<3.77 U	<3.18 U	<3.29 U	<4.73 U	<2.94 U	<3.9 U
Silver	7440-22-4	**2**	8.3	180	1500	mg/kg	<0.722 U	<0.788 UJ	<0.567 U	<0.572 U	<0.991 U	<0.591 U	<0.585 U	<0.754 U	<0.636 UJ	<0.658 U	<0.946 U	<0.587 U	<0.779 U
Sodium	7440-23-5	NS	NS	NS	NS	mg/kg	230	4,400	153	207	9,650	243	327	5,850	229	224	5,770	375	454
Thallium	7440-28-0	NS	NS	NS	NS	mg/kg	<3.61 U	<3.94 U	<2.84 U	<2.86 U	<4.96 U	<2.96 U	<2.92 U	<3.77 U	<3.18 U	<3.29 U	<4.73 U	<2.94 U	<3.9 U
Vanadium	7440-62-2	NS	NS	NS	NS	mg/kg	33.2	41.5	32.6	19.9	53.5	39.5	27.5	43.8	26.4	18.5	52.9	26.9	30.4
Zinc	7440-66-6	**109**	2480	10000	10000	mg/kg	**1,170**	79	**334**	**485**	100	**1,060**	**612**	86.7	**793**	**415**	**114**	**1,150**	**1,300**
General Chemistry																			
Solids, Percent	SOLID	NS	NS	NS	NS	Percent	69.3	63.4	88.2	87.4	50.4	84.6	85.5	66.3	78.7	76	52.8	85.2	64.2
Perfluorooctanoic acids																			
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA	2991-50-6	NS	NS	NS	NS	mg/kg	<0.000333 U	<0.000378 U	<0.000276 U	<0.000284 U	<0.000489 U	<0.000277 U	<0.000278 U	<0.000357 U	<0.000282 U	<0.000289 U	<0.000444 U	<0.000284 U	0.000775
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOS	2355-31-9	NS	NS	NS	NS	mg/kg	<0.000333 U	<0.000378 U	<0.000276 U	<0.000284 U	<0.000489 U	<0.000277 U	<0.000278 U	<0.000357 U	<0.000282 U	<0.000289 U	<0.000444 U	<0.000284 U	<0.000369 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	NS	mg/kg	<0.000333 U	<0.000378 U	<0.000276 U	<0.000284 U	<0.000489 U	<0.000277 U	<0.000278 U	<0.000357 U	<0.000282 U	<0.000289 U	<0.000444 U	<0.000284 U	<0.000369 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	NS	mg/kg	0.00273	<0.000378 U	0.00119	0.00184	<0.000489 U	<0.000277 U	<0.000278 U	<0.000357 U	0.00173	<0.000289 U	0.000728	<0.000284 U	0.000662
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	NS	mg/kg	<0.000333 U	<0.000378 U	<0.000276 U	<0.000284 U	<0.000489 U	<0.000277 U	<0.000278 U	<0.000357 U	<0.000282 U	<0.000289 U	<0.000444 U	<0.000284 U	<0.000369 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	NS	mg/kg	<0.000333 U	<0.000378 U	<0.000276 U	<0.000284 U	<0.000489 U	<0.000277 U	<0.000278 U	<0.000357 U	<0.000282 U	<0.000289 U	<0.000444 U	<0.000284 U	<0.000369 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	NS	mg/kg	<0.000333 U	<0.000378 U	<0.000276 U	<0.000284 U	<0.000489 U	<0.000277 U	<0.000278 U	<0.000357 U	0.000559	<0.000289 U	<0.000444 U	<0.000284 U	<0.000369 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	NS	mg/kg	<0.000333 U	<0.000378 U	<0.000276 U	<0.000284 U	<0.000489 U	<0.000277 U	<0.000278 U	<0.000357 U	<0.000282 U	<0.000289 U	<0.000444 U	<0.000284 U	<0.000369 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	NS	mg/kg	<0.000333 U	<0.000378 U	<0.000276 U	<0.000284 U	<0.000489 U	<0.000277 U	<0.000278 U	<0.000357 U	<0.000282 U	<0.000289 U	<0.000444 U	<0.000284 U	<0.000369 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	NS	mg/kg	<0.000333 U	<0.000378 U	<0.000276 U	<0.000284 U	<0.000489 U	<0.000277 U	<0.000278 U	<0.000357 U	<0.000282 U	<0.000289 U	<0.000444 U	<0.000284 U	<0.000369 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	NS	mg/kg	0.000436	<0.000378 U	<0.000276 U	<0.000284 U	<0.000489 U	<0.000277 U	<0.000278 U	<0.000357 U	<0.000282 U	<0.000289 U	<0.000444 U	<0.000284 U	<0.000369 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	NS	mg/kg	<0.000333 U	<0.000378 U	<0.000276 U	<0.000284 U	<0.000489 U	<0.000277 U	<0.000278 U	<0.000357 U	<0.000282 U	<0.000289 U	<0.000444 U	<0.000284 U	<0.000369 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	NS	mg/kg	<0.000333 U	<0.000378 U	<0.000276 U	<0.000284 U	<0.000489 U	<0.000277 U	<0.000278 U	<0.000357 U	<0.000282 U	<0.000289 U	<0.000444 U	<0.000284 U	<0.000369 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.044	0.44	mg/kg	<0.000333 U	<0.000378 U	<0.000276 U	**0.00151**	<0.000489 U	0.000663	<0.000278 U	<0.000357 U	**0.00162**	<0.000289 U	0.000549	<0.000284 U	0.000547
Perfluorooctanoic Acid (PFOA)	335-67-1	0.00066	0.0011	0.033	0.5	mg/kg	<0.000333 U	<0.000378 U	<0.000276 U	<0.000284 U	<0.000489 U	<0.000277 U	<0.000278 U	<0.000357 U	<0.000282 U	<0.000289 U	<0.000444 U	<0.000284 U	<0.000369 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	NS	mg/kg	0.00043	<0.000378 U	<0.000276 U	<0.000284 U	<0.000489 U	<0.000277 U	<0.000278 U	<0.000357 U	<0.000282 U	<0.000289 U	<0.000444 U	<0.000284 U	<0.000369 U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	NS	mg/kg	<0.000333 U	<0.000378 U	<0.000276 U	<0.000284 U	<0.000489 U	<0.000277 U	<0.000278 U	<0.000357 U	<0.000282 U	<0.000289 U	<0.000444 U	<0.000284 U	<0.000369 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	NS	mg/kg	<0.000333 U	<0.000378 U	<0.000276 U	<0.000284 U	<0.000489 U	<0.000277 U	<0.000278 U	<0.000357 U	<0.000282 U	<0.000289 U	<0.000444 U	<0.000284 U	<0.000369 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	NS	mg/kg	<0.000333 U	<0.000378 U	<0.000276 U	<0.000284 U	<0.000489 U	<0.000277 U	<0.000278 U	<0.000357 U	0.000365	<0.000289 U	<0.000444 U	<0.000284 U	<0.000369 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FT	39108-34-4	NS	NS	NS	NS	mg/kg	<0.000333 U	<0.000378 U	<0.000276 U	<0.000284 U	<0.000489 U	<0.000277 U	<0.000278 U	<0.000357 U	<0.000282 U	<0.000289 U	<0.000444 U	<0.000284 U	<0.000369 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FT	27619-97-2	NS	NS	NS	NS	mg/kg	<0.000333 U	<0.000378 U	<0.000276 U	<0.000284 U	<0.000489 U	<0.000277 U	<0.000278 U	<0.000357 U	<0.000282 U	<0.000289 U	<0.000444 U	<0.000284 U	<0.000369 U

Notes provided on Page 25.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3B
Remedial Investigation Report
Soil Sample Analytical Results - Block 1825 (F)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	F-SB106	F-SB107	F-SB107	F-SB107	F-SB108	F-SB108	F-SB108	F-SB109	F-SB109	F-SB109	F-SB110	F-SB110	F-SB110
						Sample Name	F-SB106_14-16	F-SB107_0-2	F-SB107_6.8	F-SB107_10-12	F-SB108_0-2	F-SB108_6-8	F-SB108_10-12	F-SB109_0-2	F-SB109_6-8	F-SB109_10-12	F-SB110_0-2	F-SB110_6.5-8	F-SB110_10-11
						Sample Date	09/17/2021	09/22/2021	09/22/2021	09/22/2021	09/22/2021	09/22/2021	09/22/2021	09/17/2021	09/17/2021	09/17/2021	09/09/2021	09/09/2021	09/09/2021
						Sample Depth	14-16	0-2	6.8-6.8	10-12	0-2	6-8	10-12	0-2	6-8	10-12	0-2	6.5-8	10-11
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																			
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	NS	mg/kg	<0.0031 UJ	<0.0035 UJ	<0.0035 UJ	<0.0033 UJ	<0.0029 UJ	<0.0033 UJ	<0.0055 UJ	<0.0028 UJ	<0.0036 UJ	<0.0049 UJ	<0.0027 U	<0.0039 U	<0.0045 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	500	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	<0.0045 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	<0.0045 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	<0.0045 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	<0.0045 U
1,1-Dichloroethane	75-34-3	0.27	0.27	26	240	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	<0.0045 U
1,1-Dichloroethene	75-35-4	0.33	0.33	100	500	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	<0.0045 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	<0.0045 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	<0.0045 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	<0.0045 U
1,2,4-Trimethylbenzene	95-63-6	3.6	3.6	52	190	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	0.1	<0.0039 U	<0.0045 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	<0.0045 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	<0.0045 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	500	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	<0.0045 U
1,2-Dichloroethane	107-06-2	0.02	0.02	3.1	30	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	<0.0045 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	<0.0045 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	52	190	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	0.018	<0.0039 U	<0.0045 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	280	mg/kg	<0.0031 UJ	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 UJ	<0.0036 UJ	<0.0049 UJ	<0.0027 U	<0.0039 U	<0.0045 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	130	mg/kg	<0.0031 UJ	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 UJ	<0.0036 UJ	<0.0049 UJ	<0.0027 U	<0.0039 U	<0.0045 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.061 U	<0.07 U	<0.071 U	<0.067 U	<0.057 U	<0.066 U	<0.11 U	<0.055 U	<0.071 U	<0.099 U	<0.055 U	<0.078 U	<0.089 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	<0.0045 U
Acetone	67-64-1	**0.05**	0.05	100	500	mg/kg	**0.087**	0.034	**0.056**	0.028	0.0074 J	**0.11**	**0.052**	0.011	**0.24**	**0.072**	**0.06**	0.05	**0.054**
Acrolein	107-02-8	NS	NS	NS	NS	mg/kg	<0.0061 U	<0.007 U	<0.0071 U	<0.0067 U	<0.0057 U	<0.0066 U	<0.011 U	<0.0055 U	<0.0071 U	<0.0099 U	<0.0055 U	<0.0078 U	<0.0089 U
Acrylonitrile	107-13-1	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	<0.0045 U
Benzene	71-43-2	**0.06**	0.06	4.8	44	mg/kg	0.021	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	0.03	<0.0039 U	<0.0045 U
Bromochloromethane	74-97-5	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	<0.0045 U
Bromodichloromethane	75-27-4	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	<0.0045 U
Bromoform	75-25-2	NS	NS	NS	NS	mg/kg	<0.0031 UJ	<0.0035 UJ	<0.0035 UJ	<0.0033 UJ	<0.0029 UJ	<0.0033 UJ	<0.0055 UJ	<0.0028 UJ	<0.0036 UJ	<0.0049 UJ	<0.0027 UJ	<0.0039 UJ	<0.0045 UJ
Bromomethane	74-83-9	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	<0.0045 U
Carbon Disulfide	75-15-0	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	0.004 J	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	0.0043 J	0.0098 J	<0.0027 U	<0.0039 U	<0.0045 U
Carbon Tetrachloride	56-23-5	0.76	0.76	2.4	22	mg/kg	<0.0031 UJ	<0.0035 UJ	<0.0035 UJ	<0.0033 UJ	<0.0029 UJ	<0.0033 UJ	<0.0055 UJ	<0.0028 UJ	<0.0036 UJ	<0.0049 UJ	<0.0027 U	<0.0039 U	<0.0045 U
Chlorobenzene	108-90-7	1.1	1.1	100	500	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	<0.0045 U
Chloroethane	75-00-3	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	<0.0045 U
Chloroform	67-66-3	0.37	0.37	49	350	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	<0.0045 U
Chloromethane	74-87-3	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	<0.0045 U
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	100	500	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	<0.0045 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	NS	mg/kg	<0.0031 UJ	<0.0035 UJ	<0.0035 UJ	<0.0033 UJ	<0.0029 UJ	<0.0033 UJ	<0.0055 UJ	<0.0028 UJ	<0.0036 UJ	<0.0049 UJ	<0.0027 U	<0.0039 U	<0.0045 U
Cyclohexane	110-82-7	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	0.06	<0.0039 U	<0.0045 U
Dibromochloromethane	124-48-1	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	<0.0045 U
Dibromomethane	74-95-3	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	<0.0045 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	<0.0045 U
Ethylbenzene	100-41-4	**1**	1	41	390	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	<0.0045 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	<0.0045 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	0.035	0.004 J	<0.0045 U
M,P-Xylene	179601-23-1	NS	NS	NS	NS	mg/kg	<0.0061 U	<0.007 U	<0.0071 U	<0.0067 U	<0.0057 U	<0.0066 U	<0.011 U	<0.0055 U	<0.0071 U	<0.0099 U	<0.0055 U	<0.0078 U	<0.0089 U
Methyl Acetate	79-20-9	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	<0.0045 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	**0.12**	0.12	100	500	mg/kg	0.019	<0.0035 U	0.012	0.005 J	<0.0029 U	0.028	0.011	<0.0028 U	0.072	0.014	0.019	0.014	0.01
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	<0.0045 U
Methylcyclohexane	108-87-2	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	6 D	<0.0039 U	<0.0045 U
Methylene Chloride	75-09-2	**0.05**	0.05	100	500	mg/kg	0.025	0.018 J	<0.014 U	0.02 J	0.016 J	<0.013 U	<0.022 U	<0.011 U	<0.014 U	<0.02 U	<0.0055 U	<0.0078 U	<0.0089 U
n-Butylbenzene	104-51-8	12	12	100	500	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	0.016	<0.0039 U	<0.0045 U
n-Propylbenzene	103-65-1	**3.9**	3.9	100	500	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	0.052	<0.0039 U	<0.0045 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	<0.0045 U
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	0.012	<0.0039 U	<0.0045 U
Sec-Butylbenzene	135-98-8	11	11	100	500	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	0.016	<0.0039 U	<0.0045 U
Styrene	100-42-5	NS	NS	NS	NS	mg/kg	<0.0031 UJ	<0.0035 UJ	<0.0035 UJ	<0.0033 UJ	<0.0029 UJ	<0.0033 UJ	<0.0055 UJ	<0.0028 UJ	<0.0036 UJ	<0.0049 UJ	<0.0027 U	<0.0039 U	<0.0045 U
T-Butylbenzene	98-06-6	5.9	5.9	100	500	mg/kg	<0.0031 UJ	<0.0035 UJ	<0.0035 UJ	<0.0033 UJ	<0.0029 UJ	<0.0033 UJ	<0.0055 UJ	<0.0028 UJ	<0.0036 UJ	<0.0049 UJ	0.023	<0.0039 U	<0.0045 U
Tert-Butyl Alcohol	75-65-0	NS	NS	NS	NS	mg/kg	<0.0031 UJ	<0.0035 UJ	<0.0035 UJ	<0.0033 UJ	<0.0029 UJ	<0.0033 UJ	<0.0055 UJ	<0.0028 UJ	<0.0036 UJ	<0.0049 UJ	<0.0027 U	<0.0039 U	0.0092
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	100	500	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	0.0084 J
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	19	150	mg/kg	<0.0031 UJ	<0.0035 UJ	<0.0035 UJ	<0.0033 UJ	<0.0029 UJ	<0.0033 UJ	<0.0055 UJ	<0.0028 UJ	<0.0036 UJ	<0.0049 UJ	<0.0027 U	<0.0039 U	<0.0045 U
Toluene	108-88-3	**0.7**	0.7	100	500	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	0.0027 J	<0.0039 U	<0.0045 U
Total Xylenes	1330-20-7	**0.26**	1.6	100	500	mg/kg	<0.0092 U	<0.011 U	<0.011 U	<0.01 U	<0.0086 U	<0.0099 U	<0.016 U	<0.0083 U	<0.011 U	<0.015 U	<0.0082 U	<0.012 U	<0.013 U
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	100	500	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	<0.0045 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	NS	mg/kg	<0.0031 UJ	<0.0035 UJ	<0.0035 UJ	<0.0033 UJ	<0.0029 UJ	<0.0033 UJ	<0.0055 UJ	<0.0028 UJ	<0.0036 UJ	<0.0049 UJ	<0.0027 U	<0.0039 U	<0.0045 U
Trichloroethene (TCE)	79-01-6	0.47	0.47	21	200	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	<0.0045 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	<0.0045 U
Vinyl Chloride	75-01-4	0.02	0.02	0.9	13	mg/kg	<0.0031 U	<0.0035 U	<0.0035 U	<0.0033 U	<0.0029 U	<0.0033 U	<0.0055 U	<0.0028 U	<0.0036 U	<0.0049 U	<0.0027 U	<0.0039 U	<0.0045 U

Notes provided on Page 25.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3B
Remedial Investigation Report
Soil Sample Analytical Results - Block 1825 (F)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	F-SB106	F-SB107	F-SB107	F-SB107	F-SB108	F-SB108	F-SB108	F-SB109	F-SB109	F-SB109	F-SB110	F-SB110	F-SB110
						Sample Name	F-SB106_14-16	F-SB107_0-2	F-SB107_6.8	F-SB107_10-12	F-SB108_0-2	F-SB108_6-8	F-SB108_10-12	F-SB109_0-2	F-SB109_6-8	F-SB109_10-12	F-SB110_0-2	F-SB110_6.5-8	F-SB110_10-11
						Sample Date	09/17/2021	09/22/2021	09/22/2021	09/22/2021	09/22/2021	09/22/2021	09/22/2021	09/17/2021	09/17/2021	09/17/2021	09/09/2021	09/09/2021	09/09/2021
						Sample Depth	14-16	0-2	6.8-6.8	10-12	0-2	6-8	10-12	0-2	6-8	10-12	0-2	6.5-8	10-11
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																			
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	NS	mg/kg	<0.105 U	<0.113 U	<0.11 U	<0.109 U	<0.0943 U	<0.121 U	<0.144 U	<0.093 U	<0.122 U	<0.148 U	<0.111 U	<0.131 U	<0.14 U
1,2-Diphenylhydrazine	122-66-7	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.0189 U	<0.0196 U	<0.0194 U	<0.0196 U	<0.0192 U	<0.0196 U	<0.0192 U	<0.0189 U	<0.0185 U	<0.0196 U	<0.0196 U	<0.0189 U	<0.019 U
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	NS	mg/kg	<0.105 U	<0.113 U	<0.11 U	<0.109 U	<0.0943 U	<0.121 U	<0.144 U	<0.093 U	<0.122 U	<0.148 U	<0.111 U	<0.131 U	<0.14 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	NS	mg/kg	<0.105 U	<0.113 U	<0.11 U	<0.109 U	<0.0943 U	<0.121 U	<0.144 U	<0.093 U	<0.122 U	<0.148 U	<0.111 U	<0.131 U	<0.14 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
2-Chlorophenol	95-57-8	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	0.263 D	<0.0659 U	<0.07 U
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	500	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
2-Nitroaniline	88-74-4	NS	NS	NS	NS	mg/kg	<0.105 U	<0.113 U	<0.11 U	<0.109 U	<0.0943 U	<0.121 U	<0.144 U	<0.093 U	<0.122 U	<0.148 U	<0.111 U	<0.131 U	<0.14 U
2-Nitrophenol	88-75-5	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	0.33	0.33	100	500	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
3-Nitroaniline	99-09-2	NS	NS	NS	NS	mg/kg	<0.105 U	<0.113 U	<0.11 U	<0.109 U	<0.0943 U	<0.121 U	<0.144 U	<0.093 U	<0.122 U	<0.148 U	<0.111 U	<0.131 U	<0.14 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	NS	mg/kg	<0.105 U	<0.113 U	<0.11 U	<0.109 U	<0.0943 U	<0.121 U	<0.144 U	<0.093 U	<0.122 U	<0.148 U	<0.111 U	<0.131 U	<0.14 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
4-Chloroaniline	106-47-8	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
4-Nitroaniline	100-01-6	NS	NS	NS	NS	mg/kg	<0.105 U	<0.113 U	<0.11 U	<0.109 U	<0.0943 U	<0.121 U	<0.144 U	<0.093 U	<0.122 U	<0.148 U	<0.111 U	<0.131 U	<0.14 U
4-Nitrophenol	100-02-7	NS	NS	NS	NS	mg/kg	<0.105 U	<0.113 U	<0.11 U	<0.109 U	<0.0943 U	<0.121 U	<0.144 U	<0.093 U	<0.122 U	<0.148 U	<0.111 U	<0.131 U	<0.14 U
Acenaphthene	83-32-9	20	98	100	500	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
Acenaphthylene	208-96-8	100	107	100	500	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
Acetophenone	98-86-2	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	NS	NS	NS	mg/kg	<0.211 U	<0.226 U	<0.221 U	<0.218 U	<0.189 U	<0.242 U	<0.288 U	<0.186 U	<0.244 U	<0.297 U	<0.221 U	<0.263 U	<0.28 U
Anthracene	120-12-7	100	1000	100	500	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
Atrazine	1912-24-9	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
Benzaldehyde	100-52-7	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
Benzidine	92-87-5	NS	NS	NS	NS	mg/kg	<0.211 U	<0.226 U	<0.221 U	<0.218 U	<0.189 U	<0.242 U	<0.288 U	<0.186 U	<0.244 U	<0.297 U	<0.221 U	<0.263 U	<0.28 U
Benzo(a)anthracene	**1**	1	1	5.6		mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	0.0769 JD	<0.0607 U	<0.0721 U	0.0892 JD	0.071 JD	<0.0742 U	<0.0554 U	0.104 JD	<0.07 U
Benzo(a)pyrene	**1**	22	1	1		mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	0.0836 JD	<0.0607 U	<0.0721 U	0.0832 JD	0.0963 JD	<0.0742 U	<0.0554 U	0.121 JD	<0.07 U
Benzo(b)fluoranthene	**1**	1.7	1	5.6		mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	0.0829 JD	<0.0607 U	<0.0721 U	0.081 JD	0.0817 JD	<0.0742 U	<0.0554 U	0.0925 JD	<0.07 U
Benzo(g,h,i)Perylene	191-24-2	100	1000	100	500	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	0.0761 JD	<0.0607 U	<0.0721 U	0.0676 JD	0.106 JD	<0.0742 U	<0.0554 U	0.0704 JD	<0.07 U
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	3.9	56	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	0.0836 JD	<0.0607 U	<0.0721 U	0.0728 JD	0.0768 JD	<0.0742 U	<0.0554 U	0.0935 JD	<0.07 U
Benzoic Acid	65-85-0	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	0.0716 JD	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
Benzyl Alcohol	100-51-6	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	NS	mg/kg	<0.0528 U	0.16 D	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	0.406 D	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	0.261 D	<0.0659 U	<0.07 U
Caprolactam	105-60-2	NS	NS	NS	NS	mg/kg	<0.105 U	<0.113 U	<0.11 U	<0.109 U	<0.0943 U	<0.121 U	<0.144 U	<0.093 U	<0.122 U	<0.148 U	<0.111 U	<0.131 U	<0.14 U
Carbazole	86-74-8	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
Chrysene	218-01-9	**1**	1	3.9	56	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	0.0965 D	<0.0607 U	<0.0721 U	0.0869 JD	0.07 JD	<0.0742 U	<0.0554 U	0.0967 JD	<0.07 U
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.33	0.56	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
Dibenzofuran	132-64-9	7	210	59	350	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
Dibutyl phthalate	84-74-2	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
Diethyl phthalate	84-66-2	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
Dimethyl phthalate	131-11-3	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
Dioctyl phthalate	117-84-0	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
Diphenylamine	122-39-4	NS	NS	NS	NS	mg/kg	<0.105 U	<0.113 U	<0.11 U	<0.109 U	<0.0943 U	<0.121 U	<0.144 U	<0.093 U	<0.122 U	<0.148 U	<0.111 U	<0.131 U	<0.14 U
Fluoranthene	206-44-0	100	1000	100	500	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	0.119 D	<0.0607 U	<0.0721 U	0.169 D	0.0817 JD	<0.0742 U	0.068 JD	0.0841 JD	<0.07 U
Fluorene	86-73-7	30	386	100	500	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
Hexachlorobenzene	118-74-1	**0.33**	3.2	1.2	6	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
Hexachloroethane	67-72-1	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	0.5	5.6	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	0.0558 JD	<0.0607 U	<0.0721 U	0.0721 JD	0.104 JD	<0.0742 U	<0.0554 U	0.0778 JD	<0.07 U
Isophorone	78-59-1	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
Naphthalene	91-20-3	12	12	100	500	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	0.507 D	<0.0659 U	<0.07 U
Nitrobenzene	98-95-3	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
n-Nitrosodimethylamine	62-75-9	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	NS	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	6.7	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
Phenanthrene	85-01-8	100	1000	100	500	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	0.0648 JD	<0.0607 U	<0.0721 U	0.128 D	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
Phenol	108-95-2	0.33	0.33	100	500	mg/kg	<0.0528 U	<0.0564 U	<0.0553 U	<0.0545 U	<0.0472 U	<0.0607 U	<0.0721 U	<0.0466 U	<0.061 U	<0.0742 U	<0.0554 U	<0.0659 U	<0.07 U
Pyrene	129-00-0	100	1000	100	500	mg/kg	<0.0528 U	0.0585 JD	<0.0553 U	<0.0545 U	0.116 D	<0.0607 U	<0.0721 U	0.176 D	0.0875 JD	<0.0742 U	0.0769 JD	<0.0659 U	<0.07 U
Pyridine	110-86-1	NS	NS	NS	NS	mg/kg	<0.211 U	<0.226 U	<0.221 U	<0.218 U	<0.189 U	<0.242 U	<0.288 U	<0.186 U	<0.244 U	<0.297 U	<0.221 U	<0.263 U	<0.28 U

Notes provided on Page 25.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3B
Remedial Investigation Report
Soil Sample Analytical Results - Block 1825 (F)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	F-SB106	F-SB107	F-SB107	F-SB107	F-SB108	F-SB108	F-SB108	F-SB109	F-SB109	F-SB109	F-SB110	F-SB110	F-SB110
						Sample Name	F-SB106_14-16	F-SB107_0-2	F-SB107_6.8	F-SB107_10-12	F-SB108_0-2	F-SB108_6-8	F-SB108_10-12	F-SB109_0-2	F-SB109_6-8	F-SB109_10-12	F-SB110_0-2	F-SB110_6.5-8	F-SB110_10-11
						Sample Date	09/17/2021	09/22/2021	09/22/2021	09/22/2021	09/22/2021	09/22/2021	09/22/2021	09/17/2021	09/17/2021	09/17/2021	09/09/2021	09/09/2021	09/09/2021
						Sample Depth	14-16	0-2	6.8-6.8	10-12	0-2	6-8	10-12	0-2	6-8	10-12	0-2	6.5-8	10-11
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Petroleum Hydrocarbons																			
Total Petroleum Hydrocarbons	TPH	NS	NS	NS	NS	UNKNOWN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides																			
4,4'-DDD	72-54-8	**0.0033**	14	13	92	mg/kg	<0.00209 U	<0.0022 U	<0.00213 U	<0.0021 U	<0.00187 U	<0.00235 U	<0.00281 U	<0.00183 U	<0.0024 U	<0.00294 U	<0.00221 U	<0.00257 U	<0.00271 UJ
4,4'-DDE	72-55-9	**0.0033**	17	8.9	62	mg/kg	<0.00209 U	<0.0022 U	<0.00213 U	<0.0021 U	<0.00187 U	<0.00235 U	<0.00281 U	<0.00183 U	<0.0024 U	<0.00294 U	<0.00221 U	<0.00257 U	<0.00271 UJ
4,4'-DDT	50-29-3	**0.0033**	136	7.9	47	mg/kg	<0.00209 U	<0.0022 U	<0.00213 U	<0.0021 U	<0.00187 U	<0.00235 U	<0.00281 U	<0.00183 U	<0.0024 U	<0.00294 U	<0.00221 U	<0.00257 U	<0.00271 UJ
Aldrin	309-00-2	0.005	0.19	0.097	0.68	mg/kg	<0.00209 U	<0.0022 U	<0.00213 U	<0.0021 U	<0.00187 U	<0.00235 U	<0.00281 U	<0.00183 U	<0.0024 U	<0.00294 U	<0.00221 U	<0.00257 U	<0.00271 UJ
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	0.48	3.4	mg/kg	<0.00209 U	<0.0022 U	<0.00213 U	<0.0021 U	<0.00187 U	<0.00235 U	<0.00281 U	<0.00183 U	<0.0024 U	<0.00294 U	<0.00221 U	<0.00257 U	<0.00271 UJ
Alpha Chlordane	5103-71-9	0.094	2.9	4.2	24	mg/kg	<0.00209 U	<0.0022 U	<0.00213 U	<0.0021 U	<0.00187 U	<0.00235 U	<0.00281 U	<0.00183 U	<0.0024 U	<0.00294 U	<0.00221 U	<0.00257 U	<0.00271 UJ
Alpha Endosulfan	959-98-8	2.4	102	24	200	mg/kg	<0.00209 U	<0.0022 U	<0.00213 U	<0.0021 U	<0.00187 U	<0.00235 U	<0.00281 U	<0.00183 U	<0.0024 U	<0.00294 U	<0.00221 U	<0.00257 U	<0.00271 UJ
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	0.36	3	mg/kg	<0.00209 U	<0.0022 U	<0.00213 U	<0.0021 U	<0.00187 U	<0.00235 U	<0.00281 U	<0.00183 U	<0.0024 U	<0.00294 U	<0.00221 U	<0.00257 U	<0.00271 UJ
Beta Endosulfan	33213-65-9	2.4	102	24	200	mg/kg	<0.00209 U	<0.0022 U	<0.00213 U	<0.0021 U	<0.00187 U	<0.00235 U	<0.00281 U	<0.00183 U	<0.0024 U	<0.00294 U	<0.00221 U	<0.00257 U	<0.00271 UJ
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	NS	mg/kg	<0.0418 U	<0.044 U	<0.0426 U	<0.0421 U	<0.0374 U	<0.047 U	<0.0562 U	<0.0367 U	<0.048 U	<0.0588 U	<0.0442 U	<0.0513 U	<0.0542 UJ
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	100	500	mg/kg	<0.00209 U	<0.0022 U	<0.00213 U	<0.0021 U	<0.00187 U	<0.00235 U	<0.00281 U	<0.00183 U	<0.0024 U	<0.00294 U	<0.00221 U	<0.00257 U	<0.00271 UJ
Dieldrin	60-57-1	**0.005**	0.1	0.2	1.4	mg/kg	<0.00209 U	<0.0022 U	<0.00213 U	<0.0021 U	<0.00187 U	<0.00235 U	<0.00281 U	<0.00183 U	<0.0024 U	<0.00294 U	<0.00221 U	<0.00257 U	<0.00271 UJ
Endosulfan Sulfate	1031-07-8	2.4	1000	24	200	mg/kg	<0.00209 U	<0.0022 U	<0.00213 U	<0.0021 U	<0.00187 U	<0.00235 U	<0.00281 U	<0.00183 U	<0.0024 U	<0.00294 U	<0.00221 U	<0.00257 U	<0.00271 UJ
Endrin	72-20-8	0.014	0.06	11	89	mg/kg	<0.00209 U	<0.0022 U	<0.00213 U	<0.0021 U	<0.00187 U	<0.00235 U	<0.00281 U	<0.00183 U	<0.0024 U	<0.00294 U	<0.00221 U	<0.00257 U	<0.00271 UJ
Endrin Aldehyde	7421-93-4	NS	NS	NS	NS	mg/kg	<0.00209 U	<0.0022 U	<0.00213 U	<0.0021 U	<0.00187 U	<0.00235 U	<0.00281 U	<0.00183 U	<0.0024 U	<0.00294 U	<0.00221 U	<0.00257 U	<0.00271 UJ
Endrin Ketone	53494-70-5	NS	NS	NS	NS	mg/kg	<0.00209 U	<0.0022 U	<0.00213 U	<0.0021 U	<0.00187 U	<0.00235 U	<0.00281 U	<0.00183 U	<0.0024 U	<0.00294 U	<0.00221 U	<0.00257 U	<0.00271 UJ
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	1.3	9.2	mg/kg	<0.00209 U	<0.0022 U	<0.00213 U	<0.0021 U	<0.00187 U	<0.00235 U	<0.00281 U	<0.00183 U	<0.0024 U	<0.00294 U	<0.00221 U	<0.00257 U	<0.00271 UJ
Gamma-Chlordane	5566-34-7	NS	NS	NS	NS	mg/kg	<0.00209 U	<0.0022 U	<0.00213 U	<0.0021 U	<0.00187 U	<0.00235 U	<0.00281 U	<0.00183 U	<0.0024 U	<0.00294 U	<0.00221 U	<0.00257 U	<0.00271 UJ
Heptachlor	76-44-8	0.042	0.38	2.1	15	mg/kg	<0.00209 U	<0.0022 U	<0.00213 U	<0.0021 U	<0.00187 U	<0.00235 U	<0.00281 U	<0.00183 U	<0.0024 U	<0.00294 U	<0.00221 U	<0.00257 U	<0.00271 UJ
Heptachlor Epoxide	1024-57-3	NS	NS	NS	NS	mg/kg	<0.00209 U	<0.0022 U	<0.00213 U	<0.0021 U	<0.00187 U	<0.00235 U	<0.00281 U	<0.00183 U	<0.0024 U	<0.00294 U	<0.00221 U	<0.00257 U	<0.00271 UJ
Methoxychlor	72-43-5	NS	NS	NS	NS	mg/kg	<0.00209 U	<0.0022 U	<0.00213 U	<0.0021 U	<0.00187 U	<0.00235 U	<0.00281 U	<0.00183 U	<0.0024 U	<0.00294 U	<0.00221 U	<0.00257 U	<0.00271 UJ
Toxaphene	8001-35-2	NS	NS	NS	NS	mg/kg	<0.209 U	<0.22 U	<0.213 U	<0.21 U	<0.187 U	<0.235 U	<0.281 U	<0.183 U	<0.24 U	<0.294 U	<0.221 U	<0.257 U	<0.271 UJ
Herbicides																			
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	NS	mg/kg	<0.0253 U	<0.027 U	<0.0261 U	<0.0257 U	<0.0226 U	<0.029 U	<0.0345 U	<0.0221 U	<0.0289 U	<0.0359 U	<0.0267 U	<0.031 U	<0.0334 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	NS	mg/kg	<0.0253 U	<0.027 U	<0.0261 U	<0.0257 U	<0.0226 U	<0.029 U	<0.0345 U	<0.0221 U	<0.0289 U	<0.0359 U	<0.0267 U	<0.031 U	<0.0334 U
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	100	500	mg/kg	<0.0253 U	<0.027 U	<0.0261 U	<0.0257 U	<0.0226 U	<0.029 U	<0.0345 U	<0.0221 U	<0.0289 U	<0.0359 U	<0.0267 U	<0.031 U	<0.0334 U
Polychlorinated Biphenyl																			
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	NS	mg/kg	<0.0211 U	<0.0222 U	<0.0215 U	<0.0212 U	<0.0189 U	<0.0237 U	<0.0284 U	<0.0185 U	<0.0242 U	<0.0297 U	<0.0223 U	<0.0259 U	<0.0274 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	NS	mg/kg	<0.0211 U	<0.0222 U	<0.0215 U	<0.0212 U	<0.0189 U	<0.0237 U	<0.0284 U	<0.0185 U	<0.0242 U	<0.0297 U	<0.0223 U	<0.0259 U	<0.0274 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	NS	mg/kg	<0.0211 U	<0.0222 U	<0.0215 U	<0.0212 U	<0.0189 U	<0.0237 U	<0.0284 U	<0.0185 U	<0.0242 U	<0.0297 U	<0.0223 U	<0.0259 U	<0.0274 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	NS	mg/kg	<0.0211 U	<0.0222 U	<0.0215 U	<0.0212 U	<0.0189 U	<0.0237 U	<0.0284 U	<0.0185 U	<0.0242 U	<0.0297 U	<0.0223 U	<0.0259 U	<0.0274 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	NS	mg/kg	<0.0211 U	<0.0222 U	<0.0215 U	<0.0212 U	<0.0189 U	<0.0237 U	<0.0284 U	<0.0185 U	<0.0242 U	<0.0297 U	<0.0223 U	<0.0259 U	<0.0274 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	NS	mg/kg	<0.0211 U	<0.0222 U	<0.0215 U	<0.0212 U	<0.0189 U	<0.0237 U	<0.0284 U	<0.0185 U	<0.0242 U	<0.0297 U	<0.0223 U	<0.0259 U	<0.0274 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	NS	mg/kg	<0.0211 U	<0.0222 U	<0.0215 U	<0.0212 U	0.0312	<0.0237 U	<0.0284 U	0.0317	<0.0242 U	<0.0297 U	<0.0223 U	<0.0259 U	<0.0274 U
Total PCBs	1336-36-3	**0.1**	3.2	1	1	mg/kg	<0.0211 U	<0.0222 U	<0.0215 U	<0.0212 U	0.0312	<0.0237 U	<0.0284 U	0.0317	<0.0242 U	<0.0297 U	<0.0223 U	<0.0259 U	<0.0274 U
Metals																			
Aluminum	7429-90-5	NS	NS	NS	NS	mg/kg	5,080	8,110	8,820	16,700	4,850	3,720	19,900	7,740	5,540	15,800	5,010	6,570	23,400
Antimony	7440-36-0	NS	NS	NS	NS	mg/kg	<3.2 U	<3.4 U	<3.33 U	<3.28 U	<2.84 U	<3.65 U	<4.34 U	<2.8 U	6.46	<4.53 U	<3.36 U	<3.97 U	<4.21 U
Arsenic	7440-38-2	**13**	16	16	16	mg/kg	2.3	7.92	11	4.27	7.59	5.26	9.99	4.86	**39.9**	7.74	9.69	9.05	6.14
Barium	7440-39-3	**350**	820	400	400	mg/kg	82.5	208	**822**	46.7	132	122	47.2	184	330	57	**1,000**	306	71.5
Beryllium	7440-41-7	7.2	47	72	590	mg/kg	<0.064 U	0.559	0.572	<0.066 U	0.211	0.165	<0.087 U	<0.056 U	0.312	0.318	<0.067 U	<0.079 U	<0.084 U
Cadmium	7440-43-9	**2.5**	7.5	4.3	9.3	mg/kg	0.679	1.07	**3.28**	0.56	0.848	0.481	<0.521 U	1.96	**5.97**	0.783	2.24	0.763	<0.506 U
Calcium	7440-70-2	NS	NS	NS	NS	mg/kg	2,020 B	30,900 B	22,700 B	2,850 B	84,800 B	6,390 B	2,800 B	20,500 B	15,900 B	2,660 B	43,700 J	3,110 J	3,680 J
Chromium, Hexavalent	18540-29-9	**1**	19	110	400	mg/kg	<0.64 U	<0.68 U	<0.665 U	<0.657 U	<0.569 U	<0.73 U	<0.868 U	<0.559 U	<0.732 U	<0.906 U	<0.671 U	<0.794 U	<0.843 U
Chromium, Total	7440-47-3	NS	NS	NS	NS	mg/kg	15.4	17.5	40.5	30.7	17.1	10	35.7	17.9	89.7	39.4	42.8	17.6	44.5
Chromium, Trivalent	16065-83-1	**30**	NS	180	1500	mg/kg	15.4	17.5	**40.5**	**30.7**	17.1	10	**35.7**	17.9	**89.7**	**39.4**	**42.8**	17.6	**44.5**
Cobalt	7440-48-4	NS	NS	NS	NS	mg/kg	4.92	9.88	18.6	10.6	5.3	7.08	17.6	7.02	11.1	14.5	5.53	6.52	15
Copper	7440-50-8	**50**	1720	270	270	mg/kg	36	**79.2**	**382**	14.6	**3,070**	**82.2**	13.6	**207**	**484**	19.3	**281**	**178**	22.7
Cyanide	57-12-5	27	40	27	27	mg/kg	<0.64 U	<0.68 U	1.01	<0.657 U	<0.569 U	1.04	<0.868 U	<0.559 U	<0.732 U	<0.906 U	<0.671 U	<0.794 U	<0.843 U
Iron	7439-89-6	NS	NS	NS	NS	mg/kg	12,700	12,600	8,930	23,500	19,800	9,380	30,400	14,300	112,000	31,900	31,400 J	16,100 J	36,000 J
Lead	7439-92-1	**63**	450	400	1000	mg/kg	**125**	**240**	**2,490**	15.6	**497**	**185**	14.4	**499**	**658**	25.7	**621**	**456**	29.9
Magnesium	7439-95-4	NS	NS	NS	NS	mg/kg	2,190	9,000	2,530	6,270	23,900	1,540	7,960	3,280	1,250	8,180	16,700	689	10,500
Manganese	7439-96-5	**1600**	2000	2000	10000	mg/kg	250	184	577	645	230	140	382	407	602	1,070	182	124	1,050
Mercury	7439-97-6	**0.18**	0.73	0.81	2.8	mg/kg	0.0721	**1.81**	**0.738**	0.101	**0.426**	**1.51**	0.0594	**2.83**	**1.91**	0.156	0.175	**1.52**	0.128
Nickel	7440-02-0	**30**	130	310	310	mg/kg	13.3	26.9	**44**	25.1	18.4	15.7	**34.1**	19.4	**37.2**	**33.8**	**49.7**	21.9	**33.1**
Potassium	7440-09-7	NS	NS	NS	NS	mg/kg	1,270	886	563	3,250	735	400	4,430	1,360	721	4,090	587	927	6,120
Selenium	7782-49-2	**3.9**	4	180	1500	mg/kg	<3.2 U	<3.4 U	<3.33 U	<3.28 U	<2.84 U	<3.65 U	<4.34 U	<2.8 U	<3.66 U	<4.53 U	<3.36 U	<3.97 U	<4.21 U
Silver	7440-22-4	**2**	8.3	180	1500	mg/kg	<0.64 U	<0.68 U	<0.665 U	<0.657 U	<0.569 U	<0.73 U	<0.868 U	<0.559 U	<0.732 U	<0.906 U	<0.671 U	<0.794 U	<0.843 U
Sodium	7440-23-5	NS	NS	NS	NS	mg/kg	552	306	301	4,950	254	217	7,220	174	424	4,350	1,880	1,030	3,430
Thallium	7440-28-0	NS	NS	NS	NS	mg/kg	<3.2 U	<3.4 U	<3.33 U	<3.28 U	<2.84 U	<3.65 U	<4.34 U	<2.8 U	<3.66 U	<4.53 U	<3.36 U	<3.97 U	<4.21 U
Vanadium	7440-62-2	NS	NS	NS	NS	mg/kg	17.7	33.7	37.1	37.4	19.9	18.8	44.5	22.1	35.8	47.7	25.4	29.1	54.9
Zinc	7440-66-6	**109**	2480	10000	10000	mg/kg	**115**	**789**	**1,720**	67.7	**211**	**152**	75	**387**	**3,150**	96.6	**1,030**	**468**	90.2
General Chemistry																			
Solids, Percent	SOLID	NS	NS	NS	NS	Percent	78.1	73.6	75.1	76.2	87.9	68.4	57.6	89.4	68.3	55.2	74.5	63	59.3
Perfluorooctanoic acids																			
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA	2991-50-6	NS	NS	NS	NS	mg/kg	<0.00029 U	<0.000333 U	<0.000297 U	<0.000319 U	<0.000282 U	<0.000363 U	<0.000398 U	<0.000252 U	<0.000301 U	<0.000426 U	<0.000303 U	<0.000341 U	<0.000417 U
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOS	2355-31-9	NS	NS	NS	NS	mg/kg	<0.00029 U	<0.000333 U	<0.000297 U	<0.000319 U	<0.000282 U	<0.000363 U	<0.000398 U	<0.000252 U	<0.000301 U	<0.000426 U	<0.000303 U	<0.000341 U	<0.000417 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	NS	mg/kg	<0.00029 U	<0.000333 U	<0.000297 U	<0.000319 U	<0.000282 U	<0.000363 U	<0.000398 U	<0.000252 U	<0.000301 U	<0.000426 U	<0.000303 U	<0.000341 U	<0.000417 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	NS	mg/kg	<0.00029 U	0.00117	<0.000297 U	<0.000319 U	0.00621	<0.000363 U	<0.000398 U	<0.000252 U	<0.000301 U	<0.000426 U	0.00161	<0.000341 U	<0.000417 U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	NS	mg/kg	<0.00029 U	<0.000333 U	<0.000297 U	<0.000319 U	<0.000282 U	<0.000363 U	<0.000398 U	<0.000252 U	<0.000301 U	<0.000426 U	<0.000303 U	<0.000341 U	<0.000417 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	NS	mg/kg	<0.00029 U	<0.000333 U	<0.000297 U	<0.000319 U	<0.000282 U	<0.000363 U	<0.000398 U	<0.000252 U	<0.000301 U	<0.000426 U	<0.000303 U	<0.000341 U	<0.000417 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	NS	mg/kg	<0.00029 U	<0.000333 U	<0.000297 U	<0.000319 U	<0.000282 U	<0.000363 U	<0.000398 U	<0.000252 U	<0.000301 U	<0.000426 U	<0.000303 U	<0.000341 U	<0.000417 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	NS	mg/kg	<0.00029 U	<0.000333 U	<0.000297 U	<0.000319 U	<0.000282 U	<0.000363 U	<0.000398 U	<0.000252 U	<0.000301 U	<0.000426 U	<0.000303 U	<0.000341 U	<0.000417 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	NS	mg/kg	<0.00029 U	<0.000333 U	<0.000297 U	<0.000319 U	<0.000282 U	<0.000363 U	<0.000398 U	<0.000252 U	<0.000301 U	<0.000426 U	<0.000303 U	<0.000341 U	<0.000417 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	NS	mg/kg	<0.00029 U	<0.000333 U	<0.000297 U	<0.000319 U	<0.000282 U	<0.000363 U	<0.000398 U	<0.000252 U	<0.000301 U	<0.000426 U	<0.000303 U	<0.000341 U	<0.000417 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	NS	mg/kg	<0.00029 U	<0.000333 U	<0.000297 U	<0.000319 U	0.000438	<0.000363 U	<0.000398 U	<0.000252 U	<0.000301 U	<0.000426 U	<0.000303 U	<0.000341 U	<0.000417 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	NS	mg/kg	<0.00029 U	<0.000333 U	<0.000297 U	<0.000319 U	<0.000282 U	<0.000363 U	<0.000398 U	<0.000252 U	<0.000301 U	<0.000426 U	<0.000303 U	<0.000341 U	<0.000417 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	NS	mg/kg	<0.00029 U	<0.000333 U	<0.000297 U	<0.000319 U	<0.000282 U	<0.000363 U	<0.000398 U	<0.000252 U	<0.000301 U	<0.000426 U	<0.000303 U	<0.000341 U	<0.000417 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.044	0.44	mg/kg	<0.00029 U	**0.00192**	<0.000297 U	<0.000319 U	<0.000282 U	<0.000363 U	<0.000398 U	<0.000252 U	0.000521	<0.000426 U	0.000491	<0.000341 U	<0.000417 U
Perfluorooctanoic Acid (PFOA)	335-67-1	0.00066	0.0011	0.033	0.5	mg/kg	<0.00029 U	0.000524	<0.000297 U	<0.000319 U	0.000313	<0.000363 U	<0.000398 U	<0.000252 U	<0.000301 U	<0.000426 U	<0.000303 U	<0.000341 U	<0.000417 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	NS	mg/kg	<0.00029 U	<0.000333 U	<0.000297 U	<0.000319 U	<0.000282 U	<0.000363 U	<0.000398 U	<0.000252 U	<0.000301 U	<0.000426 U	<0.000303 U	<0.000341 U	<0.000417 U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	NS	mg/kg	<0.00029 U	<0.000333 U	<0.000297 U	<0.000319 U	<0.000282 U	<0.000363 U	<0.000398 U	<0.000252 U	<0.000301 U	<0.000426 U	<0.000303 U	<0.000341 U	<0.000417 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	NS	mg/kg	<0.00029 U	<0.000333 U	<0.000297 U	<0.000319 U	<0.000282 U	<0.000363 U	<0.000398 U	<0.000252 U	<0.000301 U	<0.000426 U	<0.000303 U	<0.000341 U	<0.000417 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	NS	mg/kg	<0.00029 U	<0.000333 U	<0.000297 U	<0.000319 U	<0.000282 U	<0.000363 U	<0.000398 U	<0.000252 U	<0.000301 U	<0.000426 U	<0.000303 U	<0.000341 U	<0.000417 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FT	39108-34-4	NS	NS	NS	NS	mg/kg	<0.00029 U	<0.000333 UJ	<0.000297 U	<0.000319 U	<0.000282 U	<0.000363 U	<0.000398 U	<0.000252 U	<0.000301 U	<0.000426 U	<0.000303 U	<0.000341 U	<0.000417 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FT	27619-97-2	NS	NS	NS	NS	mg/kg	<0.00029 U	<0.000333 U	<0.000297 UJ	<0.000319 UJ	<0.000282 UJ	<0.000363 U	<0.000398 U	<0.000252 U	<0.000301 U	<0.000426 U	<0.000303 U	<0.000341 U	<0.000417 U

Notes provided on Page 25.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3B
Remedial Investigation Report
Soil Sample Analytical Results - Block 1825 (F)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	F-SB111	F-SB111	F-SB112	F-SB112	F-SB112	F-SB113	F-SB113	F-SB113	F-SB113	F-SB114	F-SB114	F-SB114	F-SB115
						Sample Name	F-SB111_0-2	F-SB111_5-7	F-SB112_0-2	F-SB112_9-11	F-SB112_12-14	F-SB113_0-2	SODUP11_100421	F-SB113_3-5	F-SB113_9-11	F-SB114_0-2	F-SB114_6-8	F-SB114_10-12	F-SB115_0-2
						Sample Date	09/17/2021	09/17/2021	09/21/2021	09/21/2021	09/21/2021	10/04/2021	10/04/2021	10/04/2021	10/04/2021	09/16/2021	09/16/2021	09/16/2021	09/20/2021
						Sample Depth	0-2	5-7	0-2	9-11	12-14	0-2	0-2	3-5	9-11	0-2	6-8	10-12	0-2
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																			
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	NS	mg/kg	<0.0031 UJ	<0.0023 UJ	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 UJ	<0.003 UJ	<0.0042 UJ	<0.23 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	500	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	<0.23 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	<0.23 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	<0.23 UJ
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	<0.23 U
1,1-Dichloroethane	75-34-3	0.27	0.27	26	240	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	<0.23 U
1,1-Dichloroethene	75-35-4	0.33	0.33	100	500	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	<0.23 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	<0.23 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	<0.23 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	<0.23 U
1,2,4-Trimethylbenzene	95-63-6	3.6	3.6	52	190	mg/kg	0.0033 J	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	0.026	<0.003 U	<0.0042 U	1.7 D
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	<0.23 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	<0.23 UJ
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	500	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	<0.23 UJ
1,2-Dichloroethane	107-06-2	0.02	0.02	3.1	30	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	<0.23 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	<0.23 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	52	190	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	0.0063 J	<0.003 U	<0.0042 U	1.5 D
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	280	mg/kg	<0.0031 UJ	<0.0023 UJ	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	<0.23 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	130	mg/kg	<0.0031 UJ	<0.0023 UJ	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	<0.23 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.061 U	<0.046 U	<0.054 U	<0.064 U	<0.057 U	<0.044 U	<0.047 U	<0.055 U	<0.076 U	<0.065 U	<0.061 U	<0.083 U	<4.7 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	<0.23 U
Acetone	67-64-1	**0.05**	0.05	100	500	mg/kg	**0.11**	0.03	<0.0054 U	**0.45 J**	0.02	**0.096**	**0.08**	0.033	**0.056**	<0.0065 U	**0.12**	**0.068**	**0.52 JD**
Acrolein	107-02-8	NS	NS	NS	NS	mg/kg	<0.0061 U	<0.0046 U	<0.0054 U	<0.0064 U	<0.0057 U	<0.0044 U	<0.0047 U	<0.0055 U	<0.0076 U	<0.0065 U	<0.0061 U	<0.0083 U	<0.47 U
Acrylonitrile	107-13-1	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	<0.23 U
Benzene	71-43-2	**0.06**	0.06	4.8	44	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	0.0038 J	<0.003 U	<0.0042 U	<0.23 U
Bromochloromethane	74-97-5	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	<0.23 U
Bromodichloromethane	75-27-4	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	<0.23 U
Bromoform	75-25-2	NS	NS	NS	NS	mg/kg	<0.0031 UJ	<0.0023 UJ	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 UJ	<0.003 UJ	<0.0042 UJ	<0.23 U
Bromomethane	74-83-9	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	<0.23 U
Carbon Disulfide	75-15-0	NS	NS	NS	NS	mg/kg	<0.0031 U	0.0036 J	<0.0027 U	0.0056 J	0.0061	<0.0022 U	<0.0023 U	<0.0027 U	0.021	<0.0032 U	<0.003 U	0.014	<0.23 U
Carbon Tetrachloride	56-23-5	0.76	0.76	2.4	22	mg/kg	<0.0031 UJ	<0.0023 UJ	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 UJ	<0.003 UJ	<0.0042 UJ	<0.23 U
Chlorobenzene	108-90-7	1.1	1.1	100	500	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	<0.23 UJ
Chloroethane	75-00-3	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 UJ	<0.003 UJ	<0.0042 UJ	<0.23 U
Chloroform	67-66-3	0.37	0.37	49	350	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	<0.23 U
Chloromethane	74-87-3	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	<0.23 U
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	100	500	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	<0.23 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	NS	mg/kg	<0.0031 UJ	<0.0023 UJ	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 UJ	<0.003 UJ	<0.0042 UJ	<0.23 U
Cyclohexane	110-82-7	NS	NS	NS	NS	mg/kg	0.0046 J	0.0028 J	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	<0.23 U
Dibromochloromethane	124-48-1	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	<0.23 U
Dibromomethane	74-95-3	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	<0.23 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	<0.23 U
Ethylbenzene	100-41-4	**1**	1	41	390	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	0.011	<0.003 U	<0.0042 U	<0.23 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	<0.23 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	<0.23 U
M,P-Xylene	179601-23-1	NS	NS	NS	NS	mg/kg	<0.0061 U	<0.0046 U	<0.0054 U	<0.0064 U	<0.0057 U	<0.0044 U	<0.0047 U	<0.0055 U	<0.0076 U	0.026	<0.0061 U	<0.0083 U	<0.47 U
Methyl Acetate	79-20-9	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	0.39 JD
Methyl Ethyl Ketone (2-Butanone)	78-93-3	**0.12**	0.12	100	500	mg/kg	0.022	0.0031 J	<0.0027 U	**0.17**	0.0049 J	0.02	0.016	<0.0027 U	0.0084	<0.0032 U	0.031	0.011	**0.33 JD**
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	NS	mg/kg	0.0033 J	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	<0.23 U
Methylcyclohexane	108-87-2	NS	NS	NS	NS	mg/kg	0.0069	0.0051	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	0.0039 J	<0.003 U	<0.0042 U	<0.23 U
Methylene Chloride	75-09-2	**0.05**	0.05	100	500	mg/kg	<0.0061 U	0.016	0.01 J	0.013	0.0094 J	<0.0044 U	<0.0094 U	<0.0055 U	<0.0076 U	<0.0065 U	0.013 J	0.02 J	<0.47 U
n-Butylbenzene	104-51-8	12	12	100	500	mg/kg	<0.0031 U	<0.0023 U	<0.0027 UJ	<0.0032 U	<0.0029 UJ	<0.0022 UJ	<0.0023 UJ	<0.0027 UJ	<0.0038 UJ	0.0057 J	<0.003 U	<0.0042 U	<0.23 UJ
n-Propylbenzene	103-65-1	**3.9**	3.9	100	500	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	0.0064 J	<0.003 U	<0.0042 U	<0.23 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	NS	mg/kg	0.0031 J	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	0.0098	<0.003 U	<0.0042 U	0.33 JD
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	0.0039 J	<0.003 U	<0.0042 U	1.1 D
Sec-Butylbenzene	135-98-8	11	11	100	500	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	<0.23 U
Styrene	100-42-5	NS	NS	NS	NS	mg/kg	<0.0031 UJ	<0.0023 UJ	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 UJ	<0.003 UJ	<0.0042 UJ	<0.23 U
T-Butylbenzene	98-06-6	5.9	5.9	100	500	mg/kg	<0.0031 UJ	<0.0023 UJ	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 UJ	<0.003 UJ	<0.0042 UJ	<0.23 UJ
Tert-Butyl Alcohol	75-65-0	NS	NS	NS	NS	mg/kg	<0.0031 UJ	<0.0023 UJ	<0.0027 UJ	<0.0032 U	<0.0029 UJ	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 UJ	<0.003 UJ	<0.0042 UJ	<0.23 UJ
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	100	500	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	0.0033 J	<0.0022 U	<0.0023 U	<0.0027 U	0.006 J	0.0045 J	<0.003 U	<0.0042 U	<0.23 U
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	19	150	mg/kg	<0.0031 UJ	<0.0023 UJ	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 UJ	<0.003 UJ	<0.0042 UJ	<0.23 UJ
Toluene	108-88-3	**0.7**	0.7	100	500	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	0.027	<0.003 U	<0.0042 U	<0.23 U
Total Xylenes	1330-20-7	**0.26**	1.6	100	500	mg/kg	<0.0092 U	<0.0069 U	<0.0081 U	<0.0096 U	<0.0086 U	<0.0067 U	<0.007 U	<0.0082 U	<0.011 U	0.036	<0.0091 U	<0.012 U	**0.71 JD**
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	100	500	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	<0.23 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	NS	mg/kg	<0.0031 UJ	<0.0023 UJ	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 UJ	<0.003 UJ	<0.0042 UJ	<0.23 U
Trichloroethene (TCE)	79-01-6	0.47	0.47	21	200	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	<0.23 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 UJ	<0.003 UJ	<0.0042 UJ	<0.23 U
Vinyl Chloride	75-01-4	0.02	0.02	0.9	13	mg/kg	<0.0031 U	<0.0023 U	<0.0027 U	<0.0032 U	<0.0029 U	<0.0022 U	<0.0023 U	<0.0027 U	<0.0038 U	<0.0032 U	<0.003 U	<0.0042 U	<0.23 U

Notes provided on Page 25.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3B
Remedial Investigation Report
Soil Sample Analytical Results - Block 1825 (F)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	F-SB111	F-SB111	F-SB112	F-SB112	F-SB112	F-SB113	F-SB113	F-SB113	F-SB113	F-SB114	F-SB114	F-SB114	F-SB115
						Sample Name	F-SB111_0-2	F-SB111_5-7	F-SB112_0-2	F-SB112_9-11	F-SB112_12-14	F-SB113_0-2	SODUP11_100421	F-SB113_3-5	F-SB113_9-11	F-SB114_0-2	F-SB114_6-8	F-SB114_10-12	F-SB115_0-2
						Sample Date	09/17/2021	09/17/2021	09/21/2021	09/21/2021	09/21/2021	10/04/2021	10/04/2021	10/04/2021	10/04/2021	09/16/2021	09/16/2021	09/16/2021	09/20/2021
						Sample Depth	0-2	5-7	0-2	9-11	12-14	0-2	0-2	3-5	9-11	0-2	6-8	10-12	0-2
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																			
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	NS	mg/kg	<0.101 U	<0.11 U	<0.0886 U	<0.11 U	<0.136 U	<0.195 U	<0.0988 U	<0.113 U	<0.13 U	<0.0919 U	<0.112 U	<0.152 U	<0.0869 U
1,2-Diphenylhydrazine	122-66-7	NS	NS	NS	NS	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 U	<0.056 U	<0.076 U	<0.0436 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.0185 U	<0.0189 U	<0.0192 U	<0.0194 U	<0.0192 U	<0.0192 U	<0.0187 U	<0.0196 U	<0.0194 U	<0.0196 U	<0.0187 U	<0.0187 U	<0.0185 U
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	NS	mg/kg	<0.101 U	<0.11 U	<0.0886 U	<0.11 U	<0.136 U	<0.195 U	<0.0988 U	<0.113 U	<0.13 U	<0.0919 UJ	<0.112 U	<0.152 U	<0.0869 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	NS	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 UJ	<0.056 U	<0.076 U	<0.0436 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	NS	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 UJ	<0.056 U	<0.076 U	<0.0436 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	NS	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 UJ	<0.056 U	<0.076 U	<0.0436 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	NS	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 UJ	<0.056 U	<0.076 U	<0.0436 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	NS	mg/kg	<0.101 U	<0.11 U	<0.0886 U	<0.11 U	<0.136 U	<0.195 U	<0.0988 U	<0.113 U	<0.13 U	<0.0919 UJ	<0.112 U	<0.152 U	<0.0869 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	NS	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 U	<0.056 U	<0.076 U	<0.0436 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	NS	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 U	<0.056 U	<0.076 U	<0.0436 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	NS	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 U	<0.056 U	<0.076 U	<0.0436 U
2-Chlorophenol	95-57-8	NS	NS	NS	NS	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 UJ	<0.056 U	<0.076 U	<0.0436 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	NS	mg/kg	0.329 D	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 U	<0.056 U	<0.076 U	0.265 D
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	500	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 UJ	<0.056 U	<0.076 U	<0.0436 U
2-Nitroaniline	88-74-4	NS	NS	NS	NS	mg/kg	<0.101 U	<0.11 U	<0.0886 U	<0.11 U	<0.136 U	<0.195 U	<0.0988 U	<0.113 U	<0.13 U	<0.0919 U	<0.112 U	<0.152 U	<0.0869 U
2-Nitrophenol	88-75-5	NS	NS	NS	NS	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 UJ	<0.056 U	<0.076 U	<0.0436 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	0.33	0.33	100	500	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 UJ	<0.056 U	<0.076 U	<0.0436 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	NS	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 U	<0.056 U	<0.076 U	<0.0436 U
3-Nitroaniline	99-09-2	NS	NS	NS	NS	mg/kg	<0.101 U	<0.11 U	<0.0886 U	<0.11 U	<0.136 U	<0.195 U	<0.0988 U	<0.113 U	<0.13 U	<0.0919 U	<0.112 U	<0.152 U	<0.0869 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	NS	mg/kg	<0.101 U	<0.11 U	<0.0886 U	<0.11 U	<0.136 U	<0.195 U	<0.0988 U	<0.113 U	<0.13 U	<0.0919 UJ	<0.112 U	<0.152 U	<0.0869 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	NS	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 U	<0.056 U	<0.076 U	<0.0436 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	NS	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 UJ	<0.056 U	<0.076 U	<0.0436 U
4-Chloroaniline	106-47-8	NS	NS	NS	NS	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 U	<0.056 U	<0.076 U	<0.0436 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	NS	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 U	<0.056 U	<0.076 U	<0.0436 U
4-Nitroaniline	100-01-6	NS	NS	NS	NS	mg/kg	<0.101 U	<0.11 U	<0.0886 U	<0.11 U	<0.136 U	<0.195 U	<0.0988 U	<0.113 U	<0.13 U	<0.0919 U	<0.112 U	<0.152 U	<0.0869 U
4-Nitrophenol	100-02-7	NS	NS	NS	NS	mg/kg	<0.101 U	<0.11 U	<0.0886 U	<0.11 U	<0.136 U	<0.195 U	<0.0988 U	<0.113 U	<0.13 U	<0.0919 UJ	<0.112 U	<0.152 U	<0.0869 U
Acenaphthene	83-32-9	20	98	100	500	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	0.138 JD	<0.0495 U	<0.0565 U	<0.0651 U	0.0514 JD	<0.056 U	<0.076 U	0.181 D
Acenaphthylene	208-96-8	100	107	100	500	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	0.159 JD	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 U	<0.056 U	<0.076 U	<0.0436 U
Acetophenone	98-86-2	NS	NS	NS	NS	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	0.284 J	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 U	<0.056 U	<0.076 U	<0.0436 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	NS	NS	NS	mg/kg	<0.202 U	<0.221 U	<0.177 U	<0.22 U	<0.272 U	<0.391 U	<0.198 U	<0.226 U	<0.26 U	<0.184 U	<0.224 U	<0.304 U	<0.174 U
Anthracene	120-12-7	100	1000	100	500	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	0.878 J	<0.0495 UJ	0.0784 JD	<0.0651 U	0.175 D	<0.056 U	<0.076 U	0.511 D
Atrazine	1912-24-9	NS	NS	NS	NS	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 U	<0.056 U	<0.076 U	<0.0436 U
Benzaldehyde	100-52-7	NS	NS	NS	NS	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 U	<0.056 U	<0.076 U	<0.0436 U
Benzidine	92-87-5	NS	NS	NS	NS	mg/kg	<0.202 U	<0.221 U	<0.177 U	<0.22 U	<0.272 U	<0.391 U	<0.198 U	<0.226 U	<0.26 U	<0.184 U	<0.224 U	<0.304 U	<0.174 U
Benzo(a)anthracene	**1**	1	1	5.6		mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	0.0781 JD	<0.0681 U	**1.5 J**	0.118 J	0.188 D	<0.0651 U	0.428 D	<0.056 U	<0.076 U	**2.02 D**
Benzo(a)pyrene	**1**	22	1	1		mg/kg	<0.0506 U	0.0652 JD	<0.0444 U	0.115 D	<0.0681 U	**1.33 J**	0.111 J	0.201 D	<0.0651 U	0.347 D	<0.056 U	<0.076 U	**2.47 D**
Benzo(b)fluoranthene	**1**	1.7	1	5.6		mg/kg	<0.0506 U	0.0643 JD	<0.0444 U	0.0825 JD	<0.0681 U	**1.06 J**	0.0988 J	0.173 D	<0.0651 U	0.343 D	<0.056 U	<0.076 U	**1.98 D**
Benzo(g,h,i)Perylene	191-24-2	100	1000	100	500	mg/kg	<0.0506 U	0.0678 JD	<0.0444 U	0.079 JD	<0.0681 U	0.68 J	0.0679 J	0.13 D	<0.0651 U	0.187 D	<0.056 U	<0.076 U	1.27 D
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	3.9	56	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	0.0737 JD	<0.0681 U	**0.847 J**	0.0679 J	0.123 D	<0.0651 U	0.258 D	<0.056 U	<0.076 U	**1.35 D**
Benzoic Acid	65-85-0	NS	NS	NS	NS	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	0.25 D	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 U	<0.056 U	<0.076 U	<0.0436 U
Benzyl Alcohol	100-51-6	NS	NS	NS	NS	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 U	<0.056 U	<0.076 U	<0.0436 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	NS	mg/kg	0.152 D	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	0.514 J	<0.0495 UJ	<0.0565 U	<0.0651 U	0.148 D	<0.056 U	<0.076 U	<0.0436 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	NS	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 U	<0.056 U	<0.076 U	<0.0436 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	NS	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 U	<0.056 U	<0.076 U	<0.0436 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	NS	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 U	<0.056 U	<0.076 U	<0.0436 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	NS	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 U	<0.056 U	<0.076 U	<0.0436 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	NS	mg/kg	0.733 D	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	1.27 J	0.0648 J	0.0604 JD	<0.0651 U	1.8 D	<0.056 U	<0.076 U	1.68 D
Caprolactam	105-60-2	NS	NS	NS	NS	mg/kg	<0.101 U	<0.11 U	<0.0886 U	<0.11 U	<0.136 U	<0.195 U	<0.0988 U	<0.113 U	<0.13 U	<0.0919 U	<0.112 U	<0.152 U	<0.0869 U
Carbazole	86-74-8	NS	NS	NS	NS	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	0.119 JD	<0.0495 U	<0.0565 U	<0.0651 U	0.0712 JD	<0.056 U	<0.076 U	0.229 D
Chrysene	218-01-9	**1**	1	3.9	56	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	0.102 JD	<0.0681 U	**1.31 J**	0.103 J	0.176 D	<0.0651 U	0.364 D	<0.056 U	<0.076 U	**1.78 D**
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.33	0.56	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	0.186 JD	<0.0495 U	<0.0565 U	<0.0651 U	0.072 JD	<0.056 U	<0.076 U	**0.511 D**
Dibenzofuran	132-64-9	7	210	59	350	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 U	<0.056 U	<0.076 U	0.0736 JD
Dibutyl phthalate	84-74-2	NS	NS	NS	NS	mg/kg	0.15 D	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	0.103 JD	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 U	<0.056 U	<0.076 U	<0.0436 U
Diethyl phthalate	84-66-2	NS	NS	NS	NS	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 U	<0.056 U	<0.076 U	<0.0436 U
Dimethyl phthalate	131-11-3	NS	NS	NS	NS	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	0.303 D	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 U	<0.056 U	<0.076 U	<0.0436 U
Dioctyl phthalate	117-84-0	NS	NS	NS	NS	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 U	<0.056 U	<0.076 U	<0.0436 U
Diphenylamine	122-39-4	NS	NS	NS	NS	mg/kg	<0.101 U	<0.11 U	<0.0886 U	<0.11 U	<0.136 U	<0.195 U	<0.0988 U	<0.113 U	<0.13 U	<0.0919 U	<0.112 U	<0.152 U	<0.0869 U
Fluoranthene	206-44-0	100	1000	100	500	mg/kg	0.219 D	<0.0552 U	<0.0444 U	0.0922 JD	<0.0681 U	3.67 J	0.231 J	0.306 D	<0.0651 U	0.913 D	0.0947 JD	<0.076 U	3.36 D
Fluorene	86-73-7	30	386	100	500	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	0.255 D	<0.0495 U	<0.0565 U	<0.0651 U	0.061 JD	<0.056 U	<0.076 U	0.213 D
Hexachlorobenzene	118-74-1	**0.33**	3.2	1.2	6	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 U	<0.056 U	<0.076 U	<0.0436 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 U	<0.056 U	<0.076 U	<0.0436 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	NS	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 U	<0.056 U	<0.076 U	<0.0436 U
Hexachloroethane	67-72-1	NS	NS	NS	NS	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 U	<0.056 U	<0.076 U	<0.0436 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	0.5	5.6	mg/kg	<0.0506 U	0.059 JD	<0.0444 U	0.0641 JD	<0.0681 U	**0.931 J**	0.0766 J	0.171 D	<0.0651 U	0.255 D	<0.056 U	<0.076 U	**1.76 D**
Isophorone	78-59-1	NS	NS	NS	NS	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 U	<0.056 U	<0.076 U	<0.0436 U
Naphthalene	91-20-3	12	12	100	500	mg/kg	0.191 D	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	0.122 JD	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 U	<0.056 U	<0.076 U	0.122 D
Nitrobenzene	98-95-3	NS	NS	NS	NS	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 U	<0.056 U	<0.076 U	<0.0436 U
n-Nitrosodimethylamine	62-75-9	NS	NS	NS	NS	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 U	<0.056 U	<0.076 U	<0.0436 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	NS	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 U	<0.056 U	<0.076 U	<0.0436 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	NS	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 U	<0.056 U	<0.076 U	<0.0436 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	6.7	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 UJ	<0.056 U	<0.076 U	<0.0436 U
Phenanthrene	85-01-8	100	1000	100	500	mg/kg	0.16 D	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	2.89 J	0.124 J	0.285 D	<0.0651 U	0.414 D	<0.056 U	<0.076 U	1.55 D
Phenol	108-95-2	0.33	0.33	100	500	mg/kg	<0.0506 U	<0.0552 U	<0.0444 U	<0.055 U	<0.0681 U	<0.098 U	<0.0495 U	<0.0565 U	<0.0651 U	<0.046 UJ	<0.056 U	<0.076 U	<0.0436 U
Pyrene	129-00-0	100	1000	100	500	mg/kg	0.25 D	0.0669 JD	<0.0444 U	0.126 D	<0.0681 U	3.02 J	0.204 J	0.335 D	<0.0651 U	0.676 D	0.0715 JD	<0.076 U	3.12 D
Pyridine	110-86-1	NS	NS	NS	NS	mg/kg	<0.202 U	<0.221 U	<0.177 U	<0.22 U	<0.272 U	<0.391 U	<0.198 U	<0.226 U	<0.26 U	<0.184 U	<0.224 U	<0.304 U	<0.174 U

Notes provided on Page 25.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3B
Remedial Investigation Report
Soil Sample Analytical Results - Block 1825 (F)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	F-SB111	F-SB111	F-SB112	F-SB112	F-SB112	F-SB113	F-SB113	F-SB113	F-SB113	F-SB114	F-SB114	F-SB114	F-SB115
						Sample Name	F-SB111_0-2	F-SB111_5-7	F-SB112_0-2	F-SB112_9-11	F-SB112_12-14	F-SB113_0-2	SODUP11_100421	F-SB113_3-5	F-SB113_9-11	F-SB114_0-2	F-SB114_6-8	F-SB114_10-12	F-SB115_0-2
						Sample Date	09/17/2021	09/17/2021	09/21/2021	09/21/2021	09/21/2021	10/04/2021	10/04/2021	10/04/2021	10/04/2021	09/16/2021	09/16/2021	09/16/2021	09/20/2021
						Sample Depth	0-2	5-7	0-2	9-11	12-14	0-2	0-2	3-5	9-11	0-2	6-8	10-12	0-2
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Petroleum Hydrocarbons																			
Total Petroleum Hydrocarbons	TPH	NS	NS	NS	NS	UNKNOWN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides																			
4,4'-DDD	72-54-8	**0.0033**	14	13	92	mg/kg	<0.00199 U	<0.00219 U	<0.00172 U	<0.00217 U	<0.00268 U	**0.00677 J**	<0.00199 UJ	<0.00227 U	<0.00258 U	<0.00185 U	<0.00221 UJ	<0.00301 U	<0.00174 U
4,4'-DDE	72-55-9	**0.0033**	17	8.9	62	mg/kg	<0.00199 U	<0.00219 U	<0.00172 U	<0.00217 U	<0.00268 U	**0.01 D**	**0.00813 D**	<0.00227 U	<0.00258 U	<0.00185 U	<0.00221 UJ	<0.00301 U	<0.00174 U
4,4'-DDT	50-29-3	**0.0033**	136	7.9	47	mg/kg	<0.00199 U	<0.00219 U	<0.00172 U	<0.00217 U	<0.00268 U	<0.00197 U	<0.00199 U	<0.00227 U	<0.00258 U	<0.00185 U	<0.00221 UJ	<0.00301 U	<0.00174 U
Aldrin	309-00-2	0.005	0.19	0.097	0.68	mg/kg	<0.00199 U	<0.00219 U	<0.00172 U	<0.00217 U	<0.00268 U	<0.00197 U	<0.00199 U	<0.00227 U	<0.00258 U	<0.00185 U	<0.00221 UJ	<0.00301 U	<0.00174 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	0.48	3.4	mg/kg	<0.00199 U	<0.00219 U	<0.00172 U	<0.00217 U	<0.00268 U	<0.00197 U	<0.00199 U	<0.00227 U	<0.00258 U	<0.00185 U	<0.00221 UJ	<0.00301 U	<0.00174 U
Alpha Chlordane	5103-71-9	0.094	2.9	4.2	24	mg/kg	<0.00199 U	<0.00219 U	<0.00172 U	<0.00217 U	<0.00268 U	<0.00197 UJ	0.0208 J	<0.00227 U	<0.00258 U	<0.00185 U	<0.00221 UJ	<0.00301 U	<0.00174 U
Alpha Endosulfan	959-98-8	2.4	102	24	200	mg/kg	<0.00199 U	<0.00219 U	<0.00172 U	<0.00217 U	<0.00268 U	<0.00197 U	<0.00199 U	<0.00227 U	<0.00258 U	<0.00185 U	<0.00221 UJ	<0.00301 U	<0.00174 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	0.36	3	mg/kg	<0.00199 U	<0.00219 U	<0.00172 U	<0.00217 U	<0.00268 U	<0.00197 U	<0.00199 U	<0.00227 U	<0.00258 U	<0.00185 U	<0.00221 UJ	<0.00301 U	<0.00174 U
Beta Endosulfan	33213-65-9	2.4	102	24	200	mg/kg	<0.00199 U	<0.00219 U	<0.00172 U	<0.00217 U	<0.00268 U	<0.00197 U	<0.00199 U	<0.00227 U	<0.00258 U	<0.00185 U	<0.00221 UJ	<0.00301 U	<0.00174 U
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	NS	mg/kg	<0.0397 U	<0.0437 U	<0.0345 U	<0.0435 U	<0.0536 U	<0.0394 U	0.102 D	<0.0454 U	<0.0515 U	<0.0371 U	<0.0442 UJ	<0.0602 U	<0.0347 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	100	500	mg/kg	<0.00199 U	<0.00219 U	<0.00172 U	<0.00217 U	<0.00268 U	<0.00197 U	<0.00199 U	<0.00227 U	<0.00258 U	<0.00185 U	<0.00221 UJ	<0.00301 U	<0.00174 U
Dieldrin	60-57-1	**0.005**	0.1	0.2	1.4	mg/kg	<0.00199 U	<0.00219 U	<0.00172 U	<0.00217 U	<0.00268 U	<0.00197 UJ	**0.00713 J**	<0.00227 U	<0.00258 U	<0.00185 U	<0.00221 UJ	<0.00301 U	<0.00174 U
Endosulfan Sulfate	1031-07-8	2.4	1000	24	200	mg/kg	<0.00199 U	<0.00219 U	<0.00172 U	<0.00217 U	<0.00268 U	<0.00197 U	<0.00199 U	<0.00227 U	<0.00258 U	<0.00185 U	<0.00221 UJ	<0.00301 U	<0.00174 U
Endrin	72-20-8	0.014	0.06	11	89	mg/kg	<0.00199 U	<0.00219 U	<0.00172 U	<0.00217 U	<0.00268 U	<0.00197 U	<0.00199 U	<0.00227 U	<0.00258 U	<0.00185 U	<0.00221 UJ	<0.00301 U	<0.00174 U
Endrin Aldehyde	7421-93-4	NS	NS	NS	NS	mg/kg	<0.00199 U	<0.00219 U	<0.00172 U	<0.00217 U	<0.00268 U	<0.00197 U	<0.00199 U	<0.00227 U	<0.00258 U	<0.00185 U	<0.00221 UJ	<0.00301 U	<0.00174 U
Endrin Ketone	53494-70-5	NS	NS	NS	NS	mg/kg	<0.00199 U	<0.00219 U	<0.00172 U	<0.00217 U	<0.00268 U	<0.00197 U	<0.00199 U	<0.00227 U	<0.00258 U	<0.00185 U	<0.00221 UJ	<0.00301 U	<0.00174 U
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	1.3	9.2	mg/kg	<0.00199 U	<0.00219 U	<0.00172 U	<0.00217 U	<0.00268 U	<0.00197 U	<0.00199 U	<0.00227 U	<0.00258 U	<0.00185 U	<0.00221 UJ	<0.00301 U	<0.00174 U
Gamma-Chlordane	5566-34-7	NS	NS	NS	NS	mg/kg	<0.00199 U	<0.00219 U	<0.00172 U	<0.00217 U	<0.00268 U	<0.00197 UJ	0.0266 J	<0.00227 U	<0.00258 U	<0.00185 U	<0.00221 UJ	<0.00301 U	<0.00174 U
Heptachlor	76-44-8	0.042	0.38	2.1	15	mg/kg	<0.00199 U	<0.00219 U	<0.00172 U	<0.00217 U	<0.00268 U	<0.00197 U	<0.00199 U	<0.00227 U	<0.00258 U	<0.00185 U	<0.00221 UJ	<0.00301 U	<0.00174 U
Heptachlor Epoxide	1024-57-3	NS	NS	NS	NS	mg/kg	<0.00199 U	<0.00219 U	<0.00172 U	<0.00217 U	<0.00268 U	<0.00197 U	<0.00199 U	<0.00227 U	<0.00258 U	<0.00185 U	<0.00221 UJ	<0.00301 U	<0.00174 U
Methoxychlor	72-43-5	NS	NS	NS	NS	mg/kg	<0.00199 U	<0.00219 U	<0.00172 U	<0.00217 U	<0.00268 U	<0.00197 U	<0.00199 U	<0.00227 U	<0.00258 U	<0.00185 U	<0.00221 UJ	<0.00301 U	<0.00174 U
Toxaphene	8001-35-2	NS	NS	NS	NS	mg/kg	<0.199 U	<0.219 U	<0.172 U	<0.217 U	<0.268 U	<0.197 U	<0.199 U	<0.227 U	<0.258 U	<0.185 U	<0.221 UJ	<0.301 U	<0.174 U
Herbicides																			
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	NS	mg/kg	<0.024 U	<0.0262 U	<0.021 U	<0.0258 U	<0.0318 U	<0.0234 U	<0.0199 U	<0.0276 U	<0.0313 U	<0.0225 UJ	<0.0266 U	<0.036 U	<0.0208 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	NS	mg/kg	<0.024 U	<0.0262 U	<0.021 U	<0.0258 U	<0.0318 U	<0.0234 U	<0.0199 U	<0.0276 U	<0.0313 U	<0.0225 UJ	<0.0266 U	<0.036 U	<0.0208 U
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	100	500	mg/kg	<0.024 U	<0.0262 U	<0.021 U	<0.0258 U	<0.0318 U	<0.0234 U	<0.0199 U	<0.0276 U	<0.0313 U	<0.0225 UJ	<0.0266 U	<0.036 U	<0.0208 U
Polychlorinated Biphenyl																			
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	NS	mg/kg	<0.02 U	<0.0221 U	<0.0174 U	<0.0219 UJ	<0.0271 U	<0.0199 U	<0.0201 U	<0.0229 U	<0.026 U	<0.0187 UJ	<0.0223 UJ	<0.0304 U	<0.0175 UJ
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	NS	mg/kg	<0.02 U	<0.0221 U	<0.0174 U	<0.0219 UJ	<0.0271 U	<0.0199 U	<0.0201 U	<0.0229 U	<0.026 U	<0.0187 UJ	<0.0223 UJ	<0.0304 U	<0.0175 UJ
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	NS	mg/kg	<0.02 U	<0.0221 U	<0.0174 U	<0.0219 UJ	<0.0271 U	<0.0199 U	<0.0201 U	<0.0229 U	<0.026 U	<0.0187 UJ	<0.0223 UJ	<0.0304 U	<0.0175 UJ
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	NS	mg/kg	<0.02 U	<0.0221 U	<0.0174 U	<0.0219 UJ	<0.0271 U	<0.0199 U	<0.0201 U	<0.0229 U	<0.026 U	<0.0187 UJ	<0.0223 UJ	<0.0304 U	<0.0175 UJ
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	NS	mg/kg	0.418	0.0354	<0.0174 U	<0.0219 UJ	<0.0271 U	<0.0199 U	<0.0201 U	<0.0229 U	<0.026 U	<0.0187 UJ	<0.0223 UJ	<0.0304 U	<0.0175 UJ
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	NS	mg/kg	<0.02 U	<0.0221 U	<0.0174 U	<0.0219 UJ	<0.0271 U	<0.0199 U	<0.0201 U	<0.0229 U	<0.026 U	<0.0187 UJ	<0.0223 UJ	<0.0304 U	<0.0175 UJ
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	NS	mg/kg	0.21	<0.0221 U	<0.0174 U	<0.0219 UJ	<0.0271 U	<0.0199 U	<0.0201 U	<0.0229 U	<0.026 U	<0.0187 UJ	<0.0223 UJ	<0.0304 U	<0.0175 UJ
Total PCBs	1336-36-3	**0.1**	3.2	1	1	mg/kg	**0.628**	0.0354	<0.0174 U	<0.0219 UJ	<0.0271 U	<0.0199 U	<0.0201 U	<0.0229 U	<0.026 U	<0.0187 UJ	<0.0223 UJ	<0.0304 U	<0.0175 UJ
Metals																			
Aluminum	7429-90-5	NS	NS	NS	NS	mg/kg	6,050	6,220	2,430	3,660	18,700	7,040	6,540	4,370	17,400	7,420	5,610	18,300	5,480
Antimony	7440-36-0	NS	NS	NS	NS	mg/kg	<3.07 U	9.16	<2.67 U	<3.3 U	<4.1 U	<3.01 UJ	<3.03 U	<3.46 U	5.63	<2.84 U	<3.38 U	<4.59 U	<2.66 U
Arsenic	7440-38-2	**13**	16	16	16	mg/kg	<1.84 U	9.78	2.62	7.54	3.45	4.54	4.85	12.1	4.72	6.45	**47.5**	11.6	4.13
Barium	7440-39-3	**350**	820	400	400	mg/kg	186	**1,310**	47.3	**387**	60.6	259 J	107 J	163	51.3	90.5	331	62.9	70.2
Beryllium	7440-41-7	7.2	47	72	590	mg/kg	<0.061 U	<0.067 U	0.103	0.15	<0.082 U	<0.06 U	<0.061 U	<0.069 U	<0.079 U	<0.057 U	<0.068 U	<0.092 U	<0.053 U
Cadmium	7440-43-9	**2.5**	7.5	4.3	9.3	mg/kg	**2.74**	2.49	<0.321 U	**4.45**	<0.492 U	0.831 J	0.884	1.59	<0.475 U	0.393	<0.406 U	<0.551 U	0.98
Calcium	7440-70-2	NS	NS	NS	NS	mg/kg	15,900 B	44,800 B	4,670 B	5,860 B	3,770 B	35,700 J	51,200	143,000	3,460	70,800 B	7,170 B	3,360 B	54,700 B
Chromium, Hexavalent	18540-29-9	**1**	19	110	400	mg/kg	<0.614 U	<0.669 U	<0.535 U	<0.661 U	<0.82 U	<0.602 UJ	<0.606 U	<0.692 U	<0.791 U	<0.567 U	<0.677 U	<0.918 U	<0.532 U
Chromium, Total	7440-47-3	NS	NS	NS	NS	mg/kg	18	33.2	5.95	27.5	37.2	24.3 J	37.5	29	36.7	16.4	32.5	34.9	32.9
Chromium, Trivalent	16065-83-1	**30**	NS	180	1500	mg/kg	18	**33.2**	5.95	27.5	**37.2**	24.3	**37.5**	29	**36.7**	16.4	**32.5**	**34.9**	**32.9**
Cobalt	7440-48-4	NS	NS	NS	NS	mg/kg	5.72	7	2.67	8.97	12.8	62.5 J	9.59 J	8.22	13.7	4.16	14.6	17.1	5.18
Copper	7440-50-8	**50**	1720	270	270	mg/kg	**116**	**656**	20.6	**315**	20.7	**91.7 J**	**94.5**	**98.3**	17	39.7	**59.6**	20.7	30.8
Cyanide	57-12-5	27	40	27	27	mg/kg	<0.614 U	0.729	<0.535 U	<0.661 U	<0.82 U	<0.602 U	<0.606 U	<0.692 U	<0.791 U	2.75	<0.677 U	<0.918 U	<0.532 U
Iron	7439-89-6	NS	NS	NS	NS	mg/kg	17,600	27,600	5,280	38,700	36,500	21,800 J	26,800	36,000	35,600	10,900	91,700	39,000	12,500
Lead	7439-92-1	**63**	450	400	1000	mg/kg	**209**	**2,510**	45.7	**1,060**	27.8	**299 J**	**226**	**303**	13.4	**84.8**	**852**	36.3	**94.8**
Magnesium	7439-95-4	NS	NS	NS	NS	mg/kg	9,170	3,050	934 B	836 B	8,770 B	3,500	5,330	68,700	9,510	9,320 B	805 B	8,640 B	21,900 B
Manganese	7439-96-5	**1600**	2000	2000	10000	mg/kg	301	340	79.6	302	826	1,240 J	305 J	322	1,060	192	634	851	183
Mercury	7439-97-6	**0.18**	0.73	0.81	2.8	mg/kg	**0.472**	**0.913**	0.0579	**7.3**	0.125	0.0751 J	0.114	**1.01**	0.119	**0.227**	0.0932	0.103	0.0567
Nickel	7440-02-0	**30**	130	310	310	mg/kg	18.2	29.8	4.98 J	22.4 J	30 J	26.7 J	27.4 J	29.1 J	29.8 J	11.4	**45.6**	**38.4**	20.1 B
Potassium	7440-09-7	NS	NS	NS	NS	mg/kg	870	891	180	631	4,880	798 B	582 B	643 B	4,550 B	528	513	4,640	766
Selenium	7782-49-2	**3.9**	4	180	1500	mg/kg	<3.07 U	<3.35 U	<2.67 U	<3.3 U	<4.1 U	<3.01 U	<3.03 U	<3.46 U	<3.96 U	<2.84 U	<3.38 U	<4.59 U	**5.57**
Silver	7440-22-4	**2**	8.3	180	1500	mg/kg	<0.614 U	0.766	<0.535 U	<0.661 U	<0.82 U	<0.602 UJ	<0.606 U	<0.692 U	<0.791 U	<0.567 U	<0.677 U	<0.918 U	<0.532 U
Sodium	7440-23-5	NS	NS	NS	NS	mg/kg	128	750	<53.5 U	250	2,830	268	200	355	4,070	187	259	3,420	158
Thallium	7440-28-0	NS	NS	NS	NS	mg/kg	<3.07 U	<3.35 U	<2.67 U	<3.3 U	<4.1 U	<3.01 U	<3.03 U	<3.46 U	<3.96 U	<2.84 U	<3.38 U	<4.59 U	<2.66 U
Vanadium	7440-62-2	NS	NS	NS	NS	mg/kg	23.6	16.7	7.52	18.1	46	20.7	20.9	18.9	45.3	17.5	26.3	43.3	21.4
Zinc	7440-66-6	**109**	2480	10000	10000	mg/kg	**587**	**2,160**	90.1	**941**	88.6	**697 J**	**1,040**	**447**	80.6	93	**663**	104	**118**
General Chemistry																			
Solids, Percent	SOLID	NS	NS	NS	NS	Percent	81.5	74.7	93.5	75.7	61	83.1	82.5	72.3	63.2	88.1	73.9	54.4	94.1
Perfluorooctanoic acids																			
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA	2991-50-6	NS	NS	NS	NS	mg/kg	<0.000283 U	<0.000273 U	<0.000256 U	<0.000262 U	<0.000353 U	<0.000288 U	<0.000282 U	<0.000312 U	<0.000308 U	<0.000247 U	<0.000282 U	<0.000414 U	<0.000244 U
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOS	2355-31-9	NS	NS	NS	NS	mg/kg	<0.000283 U	<0.000273 U	<0.000256 U	<0.000262 U	<0.000353 U	<0.000288 U	<0.000282 U	<0.000312 U	<0.000308 U	<0.000247 U	<0.000282 U	<0.000414 U	<0.000244 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	NS	mg/kg	<0.000283 U	<0.000273 U	<0.000256 U	<0.000262 U	<0.000353 U	<0.000288 UJ	<0.000282 U	<0.000312 U	<0.000308 U	<0.000247 U	<0.000282 U	<0.000414 U	<0.000244 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	NS	mg/kg	0.000762	<0.000273 U	0.0012	0.00104	<0.000353 U	0.00251 J	0.000887 J	0.000963	<0.000308 U	<0.000247 U	<0.000282 U	<0.000414 U	<0.000244 U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	NS	mg/kg	<0.000283 U	<0.000273 U	<0.000256 U	<0.000262 U	<0.000353 U	<0.000288 U	<0.000282 U	<0.000312 U	<0.000308 U	<0.000247 U	<0.000282 U	<0.000414 U	<0.000244 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	NS	mg/kg	<0.000283 U	<0.000273 U	<0.000256 U	<0.000262 U	<0.000353 U	0.000354	<0.000282 U	<0.000312 U	<0.000308 U	<0.000247 U	<0.000282 U	<0.000414 U	<0.000244 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	NS	mg/kg	<0.000283 U	<0.000273 U	<0.000256 U	<0.000262 U	<0.000353 U	<0.000288 U	<0.000282 U	<0.000312 U	<0.000308 U	<0.000247 U	<0.000282 U	<0.000414 U	<0.000244 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	NS	mg/kg	<0.000283 U	<0.000273 U	<0.000256 U	<0.000262 U	<0.000353 U	<0.000288 U	<0.000282 U	<0.000312 U	<0.000308 U	<0.000247 U	<0.000282 U	<0.000414 U	<0.000244 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	NS	mg/kg	<0.000283 U	<0.000273 U	<0.000256 U	<0.000262 U	<0.000353 U	<0.000288 U	<0.000282 U	<0.000312 U	<0.000308 U	<0.000247 U	<0.000282 U	<0.000414 U	<0.000244 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	NS	mg/kg	<0.000283 U	<0.000273 U	<0.000256 U	<0.000262 U	<0.000353 U	<0.000288 U	<0.000282 U	<0.000312 U	<0.000308 U	<0.000247 U	<0.000282 U	<0.000414 U	<0.000244 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	NS	mg/kg	<0.000283 U	<0.000273 U	<0.000256 U	0.00028	<0.000353 U	0.00101 J	<0.000282 UJ	<0.000312 U	<0.000308 U	<0.000247 U	<0.000282 U	<0.000414 U	<0.000244 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	NS	mg/kg	<0.000283 U	<0.000273 U	<0.000256 U	<0.000262 U	<0.000353 U	<0.000288 U	<0.000282 U	<0.000312 U	<0.000308 U	<0.000247 U	<0.000282 U	<0.000414 U	<0.000244 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	NS	mg/kg	<0.000283 U	<0.000273 U	<0.000256 U	<0.000262 U	<0.000353 U	<0.000288 U	<0.000282 U	<0.000312 U	<0.000308 U	<0.000247 U	<0.000282 U	<0.000414 U	<0.000244 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.044	0.44	mg/kg	<0.000283 U	0.000391	<0.000256 U	0.000429	<0.000353 U	**0.00556**	**0.00511**	**0.0032**	<0.000308 U	0.000538	<0.000282 U	<0.000414 U	0.000407
Perfluorooctanoic Acid (PFOA)	335-67-1	0.00066	0.0011	0.033	0.5	mg/kg	<0.000283 U	<0.000273 U	<0.000256 U	<0.000262 U	<0.000353 U	<0.000288 U	<0.000282 U	<0.000312 U	<0.000308 U	<0.000247 U	<0.000282 U	<0.000414 U	<0.000244 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	NS	mg/kg	<0.000283 U	<0.000273 U	<0.000256 U	0.000287	<0.000353 U	<0.000288 U	<0.000282 U	<0.000312 U	<0.000308 U	<0.000247 U	<0.000282 U	<0.000414 U	<0.000244 U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	NS	mg/kg	<0.000283 U	<0.000273 U	<0.000256 U	<0.000262 U	<0.000353 U	<0.000288 U	<0.000282 U	<0.000312 U	<0.000308 U	<0.000247 U	<0.000282 U	<0.000414 U	<0.000244 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	NS	mg/kg	<0.000283 U	<0.000273 U	<0.000256 U	<0.000262 U	<0.000353 U	<0.000288 U	<0.000282 U	<0.000312 U	<0.000308 U	<0.000247 U	<0.000282 U	<0.000414 U	<0.000244 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	NS	mg/kg	<0.000283 U	<0.000273 U	<0.000256 U	<0.000262 U	<0.000353 U	<0.000288 U	<0.000282 U	<0.000312 U	<0.000308 U	<0.000247 U	<0.000282 U	<0.000414 U	<0.000244 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FT	39108-34-4	NS	NS	NS	NS	mg/kg	<0.000283 U	<0.000273 U	<0.000256 U	<0.000262 U	<0.000353 U	<0.000288 U	<0.000282 U	<0.000312 U	<0.000308 U	<0.000247 U	<0.000282 U	<0.000414 U	<0.000244 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FT	27619-97-2	NS	NS	NS	NS	mg/kg	<0.000283 U	<0.000273 U	<0.000256 U	<0.000262 U	<0.000353 U	<0.000288 U	<0.000282 U	<0.000312 U	<0.000308 U	<0.000247 U	<0.000282 U	<0.000414 U	<0.000244 U

Notes provided on Page 25.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3B
Remedial Investigation Report
Soil Sample Analytical Results - Block 1825 (F)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	F-SB115	F-SB115	F-SB116	F-SB116	F-SB116	F-SB117	F-SB117	F-SB117	F-SB118	F-SB118	F-SB118	F-SB119	F-SB119
						Sample Name	F-SB115_6-8	F-SB115_10-12	F-SB116_0-2	F-SB116_5-7	F-SB116_10-12	F-SB117_0-2	F-SB117_6-8	F-SB117_10-12	F-SB118_0-2	F-SB118_6-8	F-SB118_9-11	F-SB119_0-2	SODUP12_100421
						Sample Date	09/20/2021	09/20/2021	09/20/2021	09/20/2021	09/20/2021	09/20/2021	09/20/2021	09/20/2021	09/17/2021	09/17/2021	09/17/2021	10/04/2021	10/04/2021
						Sample Depth	6-8	10-12	0-2	5-7	10-12	0-2	6-8	10-12	0-2	6-8	9-11	0-2	0-2
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																			
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	NS	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	500	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	NS	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	NS	NS	NS	mg/kg	<0.35 UJ	<0.0041 UJ	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	NS	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
1,1-Dichloroethane	75-34-3	0.27	0.27	26	240	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
1,1-Dichloroethene	75-35-4	0.33	0.33	100	500	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	NS	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	NS	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	NS	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
1,2,4-Trimethylbenzene	95-63-6	3.6	3.6	52	190	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	NS	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	NS	mg/kg	<0.35 UJ	<0.0041 UJ	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	500	mg/kg	<0.35 UJ	<0.0041 UJ	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
1,2-Dichloroethane	107-06-2	0.02	0.02	3.1	30	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	NS	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	52	190	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	280	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	130	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<7 U	<0.082 U	<0.047 U	<0.059 U	<0.062 U	<0.051 U	<0.061 U	<0.076 U	<0.039 U	<0.063 U	<0.083 U	<0.05 U	<0.047 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	NS	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
Acetone	67-64-1	**0.05**	0.05	100	500	mg/kg	<0.7 U	0.041	0.017	**0.064**	0.035	0.04	0.03	0.043	0.0069 J	**0.16**	0.049	**0.083 J**	0.038 J
Acrolein	107-02-8	NS	NS	NS	NS	mg/kg	<0.7 U	<0.0082 U	<0.0047 U	<0.0059 U	<0.0062 U	<0.0051 U	<0.0061 U	<0.0076 U	<0.0039 U	0.0082 J	<0.0083 U	<0.005 U	<0.0047 U
Acrylonitrile	107-13-1	NS	NS	NS	NS	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
Benzene	71-43-2	**0.06**	0.06	4.8	44	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
Bromochloromethane	74-97-5	NS	NS	NS	NS	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
Bromodichloromethane	75-27-4	NS	NS	NS	NS	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
Bromoform	75-25-2	NS	NS	NS	NS	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 UJ	<0.0032 UJ	<0.0042 UJ	<0.0025 U	<0.0023 U
Bromomethane	74-83-9	NS	NS	NS	NS	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
Carbon Disulfide	75-15-0	NS	NS	NS	NS	mg/kg	<0.35 U	0.026	<0.0024 U	<0.0029 U	0.0074	<0.0026 U	<0.003 U	0.015	<0.0019 U	<0.0032 U	0.0063 J	0.0087	<0.0023 U
Carbon Tetrachloride	56-23-5	0.76	0.76	2.4	22	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0026 U	<0.0023 U
Chlorobenzene	108-90-7	1.1	1.1	100	500	mg/kg	<0.35 UJ	<0.0041 UJ	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
Chloroethane	75-00-3	NS	NS	NS	NS	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
Chloroform	67-66-3	0.37	0.37	49	350	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
Chloromethane	74-87-3	NS	NS	NS	NS	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	100	500	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	NS	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
Cyclohexane	110-82-7	NS	NS	NS	NS	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
Dibromochloromethane	124-48-1	NS	NS	NS	NS	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
Dibromomethane	74-95-3	NS	NS	NS	NS	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	NS	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
Ethylbenzene	100-41-4	**1**	1	41	390	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	NS	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
M,P-Xylene	179601-23-1	NS	NS	NS	NS	mg/kg	<0.7 U	<0.0082 U	<0.0047 U	<0.0059 U	<0.0062 U	<0.0051 U	<0.0061 U	<0.0076 U	<0.0039 U	<0.0063 U	<0.0083 U	<0.005 U	<0.0047 U
Methyl Acetate	79-20-9	NS	NS	NS	NS	mg/kg	0.38 JD	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	**0.12**	0.12	100	500	mg/kg	<0.35 U	0.0096	<0.0024 U	0.013	0.0057 J	0.007	0.0066	0.0062 J	<0.0019 U	0.034	0.0074 J	0.012	<0.0023 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	NS	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
Methylcyclohexane	108-87-2	NS	NS	NS	NS	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
Methylene Chloride	75-09-2	**0.05**	0.05	100	500	mg/kg	<0.7 U	<0.0082 U	0.018	0.015 J	0.019	<0.0051 U	<0.0061 U	0.018	<0.0077 U	<0.0063 U	<0.0083 U	<0.005 U	<0.0047 U
n-Butylbenzene	104-51-8	12	12	100	500	mg/kg	<0.35 UJ	<0.0041 UJ	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 UJ	<0.0023 UJ
n-Propylbenzene	103-65-1	**3.9**	3.9	100	500	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	NS	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	NS	NS	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
Sec-Butylbenzene	135-98-8	11	11	100	500	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
Styrene	100-42-5	NS	NS	NS	NS	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
T-Butylbenzene	98-06-6	5.9	5.9	100	500	mg/kg	<0.35 UJ	<0.0041 UJ	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
Tert-Butyl Alcohol	75-65-0	NS	NS	NS	NS	mg/kg	<0.35 UJ	<0.0041 UJ	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 UJ	<0.0042 UJ	<0.0025 U	<0.0023 U
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	100	500	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	19	150	mg/kg	<0.35 UJ	<0.0041 UJ	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
Toluene	108-88-3	**0.7**	0.7	100	500	mg/kg	<0.35 UJ	<0.0041 UJ	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
Total Xylenes	1330-20-7	**0.26**	1.6	100	500	mg/kg	<1 U	<0.012 U	<0.0071 U	<0.0088 U	<0.0093 U	<0.0077 U	<0.0091 U	<0.011 U	<0.0058 U	<0.0095 U	<0.013 U	<0.0076 U	<0.007 U
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	100	500	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	NS	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
Trichloroethene (TCE)	79-01-6	0.47	0.47	21	200	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	NS	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U
Vinyl Chloride	75-01-4	0.02	0.02	0.9	13	mg/kg	<0.35 U	<0.0041 U	<0.0024 U	<0.0029 U	<0.0031 U	<0.0026 U	<0.003 U	<0.0038 U	<0.0019 U	<0.0032 U	<0.0042 U	<0.0025 U	<0.0023 U

Notes provided on Page 25.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3B
Remedial Investigation Report
Soil Sample Analytical Results - Block 1825 (F)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	F-SB115	F-SB115	F-SB116	F-SB116	F-SB116	F-SB117	F-SB117	F-SB117	F-SB118	F-SB118	F-SB118	F-SB119	F-SB119
						Sample Name	F-SB115_6-8	F-SB115_10-12	F-SB116_0-2	F-SB116_5-7	F-SB116_10-12	F-SB117_0-2	F-SB117_6-8	F-SB117_10-12	F-SB118_0-2	F-SB118_6-8	F-SB118_9-11	F-SB119_0-2	SODUP12_100421
						Sample Date	09/20/2021	09/20/2021	09/20/2021	09/20/2021	09/20/2021	09/20/2021	09/20/2021	09/20/2021	09/17/2021	09/17/2021	09/17/2021	10/04/2021	10/04/2021
						Sample Depth	6-8	10-12	0-2	5-7	10-12	0-2	6-8	10-12	0-2	6-8	9-11	0-2	0-2
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																			
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	NS	mg/kg	<0.128 U	<0.137 U	<0.0907 U	<0.11 U	<0.103 U	<0.0983 U	<0.0992 U	<0.139 U	<0.0959 U	<0.115 U	<0.143 U	<0.0971 U	<0.0987 U
1,2-Diphenylhydrazine	122-66-7	NS	NS	NS	NS	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.0196 U	<0.019 U	<0.0185 U	<0.0183 U	<0.0185 U	<0.0185 U	<0.0194 U	<0.0192 U	<0.0196 U	<0.0194 U	<0.0189 U	<0.019 U	<0.0196 U
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	NS	mg/kg	<0.128 U	<0.137 U	<0.0907 U	<0.11 U	<0.103 U	<0.0983 U	<0.0992 U	<0.139 U	<0.0959 U	<0.115 U	<0.143 U	<0.0971 U	<0.0987 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	NS	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	NS	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	NS	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	NS	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	NS	mg/kg	<0.128 U	<0.137 U	<0.0907 U	<0.11 U	<0.103 U	<0.0983 U	<0.0992 U	<0.139 U	<0.0959 U	<0.115 U	<0.143 U	<0.0971 U	<0.0987 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	NS	mg/kg	<0.0641 U	1.55 D	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	NS	mg/kg	<0.0641 U	2.14 D	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	NS	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
2-Chlorophenol	95-57-8	NS	NS	NS	NS	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	NS	mg/kg	<0.0641 U	<0.0686 U	0.0718 JD	0.0768 JD	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	0.151 J	0.482 J
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	500	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
2-Nitroaniline	88-74-4	NS	NS	NS	NS	mg/kg	<0.128 U	<0.137 U	<0.0907 U	<0.11 U	<0.103 U	<0.0983 U	<0.0992 U	<0.139 U	<0.0959 U	<0.115 U	<0.143 U	<0.0971 U	<0.0987 U
2-Nitrophenol	88-75-5	NS	NS	NS	NS	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	0.33	0.33	100	500	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	NS	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
3-Nitroaniline	99-09-2	NS	NS	NS	NS	mg/kg	<0.128 U	<0.137 U	<0.0907 U	<0.11 U	<0.103 U	<0.0983 U	<0.0992 U	<0.139 U	<0.0959 U	<0.115 U	<0.143 U	<0.0971 U	<0.0987 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	NS	mg/kg	<0.128 U	<0.137 U	<0.0907 U	<0.11 U	<0.103 U	<0.0983 U	<0.0992 U	<0.139 U	<0.0959 U	<0.115 U	<0.143 U	<0.0971 U	<0.0987 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	NS	mg/kg	<0.0641 U	0.0733 JD	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	NS	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
4-Chloroaniline	106-47-8	NS	NS	NS	NS	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	NS	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
4-Nitroaniline	100-01-6	NS	NS	NS	NS	mg/kg	<0.128 U	<0.137 U	<0.0907 U	<0.11 U	<0.103 U	<0.0983 U	<0.0992 U	<0.139 U	<0.0959 U	<0.115 U	<0.143 U	<0.0971 U	<0.0987 U
4-Nitrophenol	100-02-7	NS	NS	NS	NS	mg/kg	<0.128 U	<0.137 U	<0.0907 U	<0.11 U	<0.103 U	<0.0983 U	<0.0992 U	<0.139 U	<0.0959 U	<0.115 U	<0.143 U	<0.0971 U	<0.0987 U
Acenaphthene	83-32-9	20	98	100	500	mg/kg	<0.0641 U	<0.0686 U	0.0631 JD	0.13 D	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	0.174 D	0.105 D
Acenaphthylene	208-96-8	100	107	100	500	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	<0.0554 U	<0.0514 U	0.0566 JD	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	0.258 D	0.0891 JD
Acetophenone	98-86-2	NS	NS	NS	NS	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	NS	NS	NS	mg/kg	<0.256 U	<0.274 U	<0.182 U	<0.221 U	<0.206 U	<0.197 U	<0.199 U	<0.278 U	<0.192 U	<0.231 U	<0.286 U	<0.194 U	<0.198 U
Anthracene	120-12-7	100	1000	100	500	mg/kg	0.207 D	<0.0686 U	0.156 D	0.484 D	<0.0514 U	0.24 D	0.0999 D	<0.0695 U	0.0697 JD	<0.0578 U	<0.0717 U	0.456 J	0.227 J
Atrazine	1912-24-9	NS	NS	NS	NS	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
Benzaldehyde	100-52-7	NS	NS	NS	NS	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	0.0698 JD	<0.0514 U	0.0967 JD	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
Benzidine	92-87-5	NS	NS	NS	NS	mg/kg	<0.256 U	<0.274 U	<0.182 U	<0.221 U	<0.206 U	<0.197 U	<0.199 U	<0.278 U	<0.192 U	<0.231 U	<0.286 U	<0.194 U	<0.198 U
Benzo(a)anthracene	**1**	1	1	5.6		mg/kg	0.695 D	0.0799 JD	0.417 D	0.893 D	0.157 D	0.84 D	0.272 D	<0.0695 U	0.188 D	<0.0578 U	<0.0717 U	**1.24 J**	0.575 J
Benzo(a)pyrene	**1**	22	1	1		mg/kg	**1.45 D**	0.0799 JD	0.501 D	0.885 D	0.162 D	0.934 D	0.31 D	<0.0695 U	0.16 D	<0.0578 U	<0.0717 U	0.927 J	0.457 J
Benzo(b)fluoranthene	**1**	1.7	1	5.6		mg/kg	**1.27 D**	0.0777 JD	0.387 D	0.669 D	0.0952 JD	0.779 D	0.238 D	<0.0695 U	0.169 D	<0.0578 U	<0.0717 U	0.788 J	0.379 J
Benzo(g,h,i)Perylene	191-24-2	100	1000	100	500	mg/kg	0.729 D	<0.0686 U	0.263 D	0.396 D	0.073 JD	0.465 D	0.159 D	<0.0695 U	0.113 D	<0.0578 U	<0.0717 U	0.519 J	0.295 J
Benzo(k)fluoranthene	**0.8**	1.7	3.9	56		mg/kg	**0.829 D**	<0.0686 U	0.351 D	0.575 D	0.102 JD	0.644 D	0.216 D	<0.0695 U	0.152 D	<0.0578 U	<0.0717 U	**0.827 J**	0.374 J
Benzoic Acid	65-85-0	NS	NS	NS	NS	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
Benzyl Alcohol	100-51-6	NS	NS	NS	NS	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	NS	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	0.0945 JD	<0.0514 U	0.228 D	0.0706 JD	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	0.0639 JD
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	NS	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	NS	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	NS	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	NS	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	NS	mg/kg	0.185 D	<0.0686 U	0.667 D	0.596 D	<0.0514 U	0.215 D	0.213 D	<0.0695 U	0.0835 JD	<0.0578 U	<0.0717 U	0.224 D	0.224 D
Caprolactam	105-60-2	NS	NS	NS	NS	mg/kg	<0.128 U	<0.137 U	<0.0907 U	<0.11 U	<0.103 U	<0.0983 U	<0.0992 U	<0.139 U	<0.0959 U	<0.115 U	<0.143 U	<0.0971 U	<0.0987 U
Carbazole	86-74-8	NS	NS	NS	NS	mg/kg	<0.0641 U	<0.0686 U	0.0551 JD	0.166 D	<0.0514 U	0.0519 JD	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	0.17 D	0.082 JD
Chrysene	218-01-9	**1**	1	3.9	56	mg/kg	0.713 D	<0.0686 U	0.375 D	0.694 D	0.12 D	0.736 D	0.227 D	<0.0695 U	0.172 D	<0.0578 U	<0.0717 U	**1.31 J**	0.598 J
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.33	0.56	mg/kg	0.217 D	<0.0686 U	0.074 JD	0.14 D	<0.0514 U	0.138 D	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	0.2 D	0.121 D
Dibenzofuran	132-64-9	7	210	59	350	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	0.103 JD	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	0.11 D	0.0694 JD
Dibutyl phthalate	84-74-2	NS	NS	NS	NS	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	0.0497 JD
Diethyl phthalate	84-66-2	NS	NS	NS	NS	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
Dimethyl phthalate	131-11-3	NS	NS	NS	NS	mg/kg	<0.0641 U	0.562 D	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
Dioctyl phthalate	117-84-0	NS	NS	NS	NS	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
Diphenylamine	122-39-4	NS	NS	NS	NS	mg/kg	<0.128 U	<0.137 U	<0.0907 U	<0.11 U	<0.103 U	<0.0983 U	<0.0992 U	<0.139 U	<0.0959 U	<0.115 U	<0.143 U	<0.0971 U	<0.0987 U
Fluoranthene	206-44-0	100	1000	100	500	mg/kg	0.495 D	<0.0686 U	0.817 D	1.69 D	0.257 D	1.5 D	0.519 D	<0.0695 U	0.332 D	<0.0578 U	<0.0717 U	2.84 J	1.2 J
Fluorene	86-73-7	30	386	100	500	mg/kg	<0.0641 U	<0.0686 U	0.0791 JD	0.259 D	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	0.227 D	0.114 D
Hexachlorobenzene	118-74-1	**0.33**	3.2	1.2	6	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	NS	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
Hexachloroethane	67-72-1	NS	NS	NS	NS	mg/kg	<0.0641 U	1.35 D	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	0.5	5.6	mg/kg	**1.05 D**	<0.0686 U	0.341 D	**0.515 D**	0.0935 JD	**0.602 D**	0.205 D	<0.0695 U	0.139 D	<0.0578 U	<0.0717 U	0.467 J	0.276 J
Isophorone	78-59-1	NS	NS	NS	NS	mg/kg	<0.0641 U	0.569 D	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
Naphthalene	91-20-3	12	12	100	500	mg/kg	<0.0641 U	<0.0686 U	0.0675 JD	0.076 JD	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	0.219 J	0.789 J
Nitrobenzene	98-95-3	NS	NS	NS	NS	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
n-Nitrosodimethylamine	62-75-9	NS	NS	NS	NS	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	NS	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	NS	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	6.7	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
Phenanthrene	85-01-8	100	1000	100	500	mg/kg	0.177 D	<0.0686 U	0.548 D	1.53 D	<0.0514 U	0.637 D	0.233 D	<0.0695 U	0.17 D	<0.0578 U	<0.0717 U	2.46 J	0.982 J
Phenol	108-95-2	0.33	0.33	100	500	mg/kg	<0.0641 U	<0.0686 U	<0.0455 U	<0.0554 U	<0.0514 U	<0.0493 U	<0.0497 U	<0.0695 U	<0.048 U	<0.0578 U	<0.0717 U	<0.0487 U	<0.0494 U
Pyrene	129-00-0	100	1000	100	500	mg/kg	1.38 D	<0.0686 U	0.722 D	1.4 D	0.199 D	1.24 D	0.443 D	<0.0695 U	0.322 D	<0.0578 U	<0.0717 U	2.56 J	1.39 J
Pyridine	110-86-1	NS	NS	NS	NS	mg/kg	<0.256 U	<0.274 U	<0.182 U	<0.221 U	<0.206 U	<0.197 U	<0.199 U	<0.278 U	<0.192 U	<0.231 U	<0.286 U	<0.194 U	<0.198 U

Notes provided on Page 25.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3B
Remedial Investigation Report
Soil Sample Analytical Results - Block 1825 (F)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	F-SB115	F-SB115	F-SB116	F-SB116	F-SB116	F-SB117	F-SB117	F-SB117	F-SB118	F-SB118	F-SB118	F-SB119	F-SB119
						Sample Name	F-SB115_6-8	F-SB115_10-12	F-SB116_0-2	F-SB116_5-7	F-SB116_10-12	F-SB117_0-2	F-SB117_6-8	F-SB117_10-12	F-SB118_0-2	F-SB118_6-8	F-SB118_9-11	F-SB119_0-2	SODUP12_100421
						Sample Date	09/20/2021	09/20/2021	09/20/2021	09/20/2021	09/20/2021	09/20/2021	09/20/2021	09/20/2021	09/17/2021	09/17/2021	09/17/2021	10/04/2021	10/04/2021
						Sample Depth	6-8	10-12	0-2	5-7	10-12	0-2	6-8	10-12	0-2	6-8	9-11	0-2	0-2
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Petroleum Hydrocarbons																			
Total Petroleum Hydrocarbons	TPH	NS	NS	NS	NS	UNKNOWN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides																			
4,4'-DDD	72-54-8	**0.0033**	14	13	92	mg/kg	**0.454 D**	<0.00267 U	**0.00782 D**	**0.00675 D**	<0.002 U	<0.00196 U	<0.00196 U	<0.00277 U	<0.0019 U	<0.0023 U	<0.00279 U	<0.00195 U	<0.00195 U
4,4'-DDE	72-55-9	**0.0033**	17	8.9	62	mg/kg	**0.269 J**	<0.00267 U	**0.00574 D**	<0.00214 U	<0.002 U	<0.00196 U	<0.00196 U	<0.00277 U	<0.0019 U	<0.0023 U	<0.00279 U	<0.00195 U	<0.00195 U
4,4'-DDT	50-29-3	**0.0033**	136	7.9	47	mg/kg	**0.542 D**	<0.00267 U	<0.00177 U	<0.00214 U	<0.002 U	<0.00196 U	<0.00196 U	<0.00277 U	<0.0019 U	<0.0023 U	<0.00279 U	<0.00195 U	<0.00195 U
Aldrin	309-00-2	0.005	0.19	0.097	0.68	mg/kg	<0.00513 U	<0.00267 U	<0.00177 U	<0.00214 U	<0.002 U	<0.00196 U	<0.00196 U	<0.00277 U	<0.0019 U	<0.0023 U	<0.00279 U	<0.00195 U	<0.00195 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	0.48	3.4	mg/kg	<0.00513 U	<0.00267 U	<0.00177 U	<0.00214 U	<0.002 U	<0.00196 U	<0.00196 U	<0.00277 U	<0.0019 U	<0.0023 U	<0.00279 U	<0.00195 U	<0.00195 U
Alpha Chlordane	5103-71-9	0.094	2.9	4.2	24	mg/kg	<0.00513 U	<0.00267 U	<0.00177 U	<0.00214 U	<0.002 U	<0.00196 U	<0.00196 U	<0.00277 U	<0.0019 U	<0.0023 U	<0.00279 U	<0.00195 U	<0.00195 U
Alpha Endosulfan	959-98-8	2.4	102	24	200	mg/kg	<0.00513 U	<0.00267 U	<0.00177 U	<0.00214 U	<0.002 U	<0.00196 U	<0.00196 U	<0.00277 U	<0.0019 U	<0.0023 U	<0.00279 U	<0.00195 U	<0.00195 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	0.36	3	mg/kg	<0.00513 U	<0.00267 U	<0.00177 U	<0.00214 U	<0.002 U	<0.00196 U	<0.00196 U	<0.00277 U	<0.0019 U	<0.0023 U	<0.00279 U	<0.00195 U	<0.00195 U
Beta Endosulfan	33213-65-9	2.4	102	24	200	mg/kg	<0.00513 U	<0.00267 U	<0.00177 U	<0.00214 U	<0.002 U	<0.00196 U	<0.00196 U	<0.00277 U	<0.0019 U	<0.0023 U	<0.00279 U	<0.00195 U	<0.00195 U
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	NS	mg/kg	<0.103 U	<0.0534 U	<0.0353 U	<0.0427 U	<0.0401 U	<0.0392 U	<0.0391 U	<0.0554 U	<0.0381 U	<0.0461 U	<0.0559 U	<0.0391 U	<0.039 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	100	500	mg/kg	<0.00513 U	<0.00267 U	<0.00177 U	<0.00214 U	<0.002 U	<0.00196 U	<0.00196 U	<0.00277 U	<0.0019 U	<0.0023 U	<0.00279 U	<0.00195 U	<0.00195 U
Dieldrin	60-57-1	**0.005**	0.1	0.2	1.4	mg/kg	<0.00513 U	<0.00267 U	<0.00177 U	<0.00214 U	<0.002 U	<0.00196 U	<0.00196 U	<0.00277 U	<0.0019 U	<0.0023 U	<0.00279 U	<0.00195 U	<0.00195 U
Endosulfan Sulfate	1031-07-8	2.4	1000	24	200	mg/kg	<0.00513 U	<0.00267 U	<0.00177 U	<0.00214 U	<0.002 U	<0.00196 U	<0.00196 U	<0.00277 U	<0.0019 U	<0.0023 U	<0.00279 U	<0.00195 U	<0.00195 U
Endrin	72-20-8	0.014	0.06	11	89	mg/kg	<0.00513 U	<0.00267 U	<0.00177 U	<0.00214 U	<0.002 U	<0.00196 U	<0.00196 U	<0.00277 U	<0.0019 U	<0.0023 U	<0.00279 U	<0.00195 U	<0.00195 U
Endrin Aldehyde	7421-93-4	NS	NS	NS	NS	mg/kg	<0.00513 U	<0.00267 U	<0.00177 U	<0.00214 U	<0.002 U	<0.00196 U	<0.00196 U	<0.00277 U	<0.0019 U	<0.0023 U	<0.00279 U	<0.00195 U	<0.00195 U
Endrin Ketone	53494-70-5	NS	NS	NS	NS	mg/kg	<0.00513 U	<0.00267 U	<0.00177 U	<0.00214 U	<0.002 U	<0.00196 U	<0.00196 U	<0.00277 U	<0.0019 U	<0.0023 U	<0.00279 U	<0.00195 U	<0.00195 U
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	1.3	9.2	mg/kg	<0.00513 U	<0.00267 U	<0.00177 U	<0.00214 U	<0.002 U	<0.00196 U	<0.00196 U	<0.00277 U	<0.0019 U	<0.0023 U	<0.00279 U	<0.00195 U	<0.00195 U
Gamma-Chlordane	5566-34-7	NS	NS	NS	NS	mg/kg	<0.00513 U	<0.00267 U	<0.00177 U	<0.00214 U	<0.002 U	<0.00196 U	<0.00196 U	<0.00277 U	<0.0019 U	<0.0023 U	<0.00279 U	<0.00195 U	<0.00195 U
Heptachlor	76-44-8	0.042	0.38	2.1	15	mg/kg	<0.00513 U	<0.00267 U	<0.00177 U	<0.00214 U	<0.002 U	<0.00196 U	<0.00196 U	<0.00277 U	<0.0019 U	<0.0023 U	<0.00279 U	<0.00195 U	<0.00195 U
Heptachlor Epoxide	1024-57-3	NS	NS	NS	NS	mg/kg	<0.00513 U	<0.00267 U	<0.00177 U	<0.00214 U	<0.002 U	<0.00196 U	<0.00196 U	<0.00277 U	<0.0019 U	<0.0023 U	<0.00279 U	<0.00195 U	<0.00195 U
Methoxychlor	72-43-5	NS	NS	NS	NS	mg/kg	<0.00513 U	<0.00267 U	<0.00177 U	<0.00214 U	<0.002 U	<0.00196 U	<0.00196 U	<0.00277 U	<0.0019 U	<0.0023 U	<0.00279 U	<0.00195 U	<0.00195 U
Toxaphene	8001-35-2	NS	NS	NS	NS	mg/kg	<0.513 U	<0.267 U	<0.177 U	<0.214 U	<0.2 U	<0.196 U	<0.196 U	<0.277 U	<0.19 U	<0.23 U	<0.279 U	<0.195 U	<0.195 U
Herbicides																			
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	NS	mg/kg	<0.0311 U	<0.032 U	<0.0215 U	<0.0266 U	<0.0244 U	<0.0238 U	<0.0241 U	<0.0336 U	<0.0228 U	<0.0276 U	<0.0343 U	<0.0235 U	<0.0196 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	NS	mg/kg	<0.0311 U	<0.032 U	<0.0215 U	<0.0266 U	<0.0244 U	<0.0238 U	<0.0241 U	<0.0336 U	<0.0228 U	<0.0276 U	<0.0343 U	<0.0235 U	<0.0196 U
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	100	500	mg/kg	<0.0311 U	<0.032 U	<0.0215 U	<0.0266 U	<0.0244 U	<0.0238 U	<0.0241 U	<0.0336 U	<0.0228 U	<0.0276 U	<0.0343 U	<0.0235 U	<0.0196 U
Polychlorinated Biphenyl																			
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	NS	mg/kg	<0.0269 U	<0.027 U	<0.0178 U	<0.0216 U	<0.0202 U	<0.0198 U	<0.0198 U	<0.028 U	<0.0192 UJ	<0.0233 U	<0.0282 U	<0.0197 U	<0.0197 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	NS	mg/kg	<0.0259 U	<0.027 U	<0.0178 U	<0.0216 U	<0.0202 U	<0.0198 U	<0.0198 U	<0.028 U	<0.0192 UJ	<0.0233 U	<0.0282 U	<0.0197 U	<0.0197 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	NS	mg/kg	<0.0259 U	<0.027 U	<0.0178 U	<0.0216 U	<0.0202 U	<0.0198 U	<0.0198 U	<0.028 U	<0.0192 UJ	<0.0233 U	<0.0282 U	<0.0197 U	<0.0197 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	NS	mg/kg	<0.0259 U	<0.027 U	0.0521	<0.0216 U	<0.0202 U	<0.0198 U	<0.0198 U	<0.028 U	<0.0192 UJ	<0.0233 U	<0.0282 U	<0.0197 U	<0.0197 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	NS	mg/kg	<0.0259 U	<0.027 U	<0.0178 U	0.0428	<0.0202 U	<0.0198 U	<0.0198 U	<0.028 U	<0.0192 UJ	<0.0233 U	<0.0282 U	<0.0197 U	<0.0197 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	NS	mg/kg	<0.0259 U	<0.027 U	<0.0178 U	<0.0216 U	<0.0202 U	<0.0198 U	<0.0198 U	<0.028 U	<0.0192 UJ	<0.0233 U	<0.0282 U	<0.0197 U	<0.0197 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	NS	mg/kg	<0.0259 U	<0.027 U	0.0186	0.0234	<0.0202 U	<0.0198 U	<0.0198 U	<0.028 U	<0.0192 UJ	<0.0233 U	<0.0282 U	<0.0197 U	<0.0197 U
Total PCBs	1336-36-3	**0.1**	3.2	1	1	mg/kg	<0.0259 U	<0.027 U	0.0706	0.0662	<0.0202 U	<0.0198 U	<0.0198 U	<0.028 U	<0.0192 UJ	<0.0233 U	<0.0282 U	<0.0197 U	<0.0197 U
Metals																			
Aluminum	7429-90-5	NS	NS	NS	NS	mg/kg	7,850	18,100	9,630	12,300	4,800	5,780	5,300	21,600	8,650	5,460	16,100	6,360	6,320
Antimony	7440-36-0	NS	NS	NS	NS	mg/kg	<3.94 U	<4.12 U	<2.75 U	<3.33 U	<3.1 U	<3.01 U	<3.04 UJ	<4.24 U	<2.93 U	<3.54 U	<4.36 UJ	20.6 J	8.3 J
Arsenic	7440-38-2	**13**	16	16	16	mg/kg	6.03	6.71	5.03	2.58	2.55	<1.8 U	7.02	10.6	3.93	6.73	6.61	<1.78 U	<1.79 U
Barium	7440-39-3	**350**	820	400	400	mg/kg	**396**	66.5	140	171	17.1	237	158 J	71.2	72.7	**3,960**	66.3	**764 J**	**581**
Beryllium	7440-41-7	7.2	47	72	590	mg/kg	<0.079 U	<0.082 U	0.967	<0.067 U	<0.062 U	2.45	<0.061 U	<0.085 U	<0.059 U	0.658	0.153	<0.059 U	<0.06 U
Cadmium	7440-43-9	**2.5**	7.5	4.3	9.3	mg/kg	<0.472 U	<0.494 U	0.517	<0.4 U	<0.372 U	<0.361 U	1.06 J	<0.508 U	0.358	0.882	0.581 J	**3.95 J**	**3.72**
Calcium	7440-70-2	NS	NS	NS	NS	mg/kg	16,600 B	2,290 B	52,800 B	22,300 B	22,600 B	10,900 B	46,000 J	4,140 B	2,230 B	4,670 B	3,450 J	35,700 B	33,400
Chromium, Hexavalent	18540-29-9	**1**	19	110	400	mg/kg	<0.787 U	<0.823 U	<0.549 U	<0.667 U	<0.619 U	<0.601 U	<0.609 U	<0.847 U	<0.586 U	<0.707 U	<0.872 UJ	<0.594 UJ	<0.595 U
Chromium, Total	7440-47-3	NS	NS	NS	NS	mg/kg	36.2	34	58.5	41.2	13.6	115	39.7	42.7	16.6	27.6	37.8	164 J	95.6 J
Chromium, Trivalent	16065-83-1	**30**	NS	180	1500	mg/kg	**36.2**	**34**	**58.5**	**41.2**	13.6	**115**	**39.7**	**42.7**	16.6	27.6	**37.8**	**164 J**	**95.6 J**
Cobalt	7440-48-4	NS	NS	NS	NS	mg/kg	9.67	13.7	18.7	14.8	4.1	36.6	12.5	15.7	6.67	7.81	13.3	21.6 J	19.6
Copper	7440-50-8	**50**	1720	270	270	mg/kg	**62.8**	17.6	**162**	32	8.89	**468**	**164 J**	18.1	29.5	**89.7**	20.3 J	**477**	**392**
Cyanide	57-12-5	27	40	27	27	mg/kg	0.787	<0.823 U	<0.549 U	<0.667 U	<0.619 U	<0.601 U	<0.609 U	<0.847 U	<0.586 U	1.62	<0.872 UJ	<0.594 U	<0.595 U
Iron	7439-89-6	NS	NS	NS	NS	mg/kg	29,100	29,600	38,200 B	28,200 B	9,760 B	211,000 BD	31,600 B	40,400	11,700	12,200	30,400	154,000 J	132,000 D
Lead	7439-92-1	**63**	450	400	1000	mg/kg	**621**	21.8	**322**	**184**	5.61	**532**	**380 J**	33.9	**72.2**	**6,660**	26.6 J	**1,540**	**1,890**
Magnesium	7439-95-4	NS	NS	NS	NS	mg/kg	2,770 B	8,440 B	22,100	9,530	3,480	4,520	21,200 J	11,300 B	2,310	661	8,480	3,160	2,770
Manganese	7439-96-5	**1600**	2000	2000	10000	mg/kg	383	634	428	447	173	**1,820**	288	1,210	202	121	1,050	1,420 J	1,300
Mercury	7439-97-6	**0.18**	0.73	0.81	2.8	mg/kg	**0.828**	0.108	0.128	**1.05**	<0.0278 U	**0.738**	**0.482**	0.0663	0.116	**0.322**	**0.183 J**	**0.395 J**	**0.407**
Nickel	7440-02-0	**30**	130	310	310	mg/kg	27.6 B	**30.2 B**	**63.1 B**	**32.9 B**	12.4 B	**169 B**	**57.5 B**	**37.7 B**	14.9	19.2	**30.1**	**107 J**	**75.6 J**
Potassium	7440-09-7	NS	NS	NS	NS	mg/kg	1,080	4,500	2,850	5,610	927	674	731	5,510	803	478	4,410	766	753 B
Selenium	7782-49-2	**3.9**	4	180	1500	mg/kg	<3.94 U	<4.12 U	<2.75 U	<3.33 U	<3.1 U	<3.01 U	<3.04 UJ	<4.24 U	<2.93 U	<3.54 U	<4.36 UJ	<2.97 UJ	<2.98 U
Silver	7440-22-4	**2**	8.3	180	1500	mg/kg	<0.787 U	<0.823 U	<0.549 U	<0.667 U	<0.619 U	<0.601 U	<0.609 UJ	<0.847 U	<0.586 U	<0.707 U	<0.872 UJ	<0.594 UJ	1.14
Sodium	7440-23-5	NS	NS	NS	NS	mg/kg	240	3,200	413	523	661	462	156	3,970	81.3	231	4,610 J	483	422
Thallium	7440-28-0	NS	NS	NS	NS	mg/kg	<3.94 U	<4.12 U	<2.75 U	<3.33 U	<3.1 U	5.51	<3.04 U	<4.24 U	<2.93 U	<3.54 U	<4.36 U	13.8 J	6.65 J
Vanadium	7440-62-2	NS	NS	NS	NS	mg/kg	26.6	42.4	27.8	44.4	14.4	19.2	20	53	24.9	21.3	47.2	25.7	24.9
Zinc	7440-66-6	**109**	2480	10000	10000	mg/kg	**439**	81.2	**392**	**118**	34.5	**958**	**1,030**	92.1	75.1	**880**	86.1	**1,080**	**1,240**
General Chemistry																			
Solids, Percent	SOLID	NS	NS	NS	NS	Percent	63.5	60.7	91	75	80.7	83.2	82.2	59	85.3	70.7	57.4	84.2	84
Perfluorooctanoic acids																			
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA	2991-50-6	NS	NS	NS	NS	mg/kg	<0.00033 U	<0.000399 U	<0.000262 U	<0.000315 U	<0.000286 U	<0.000282 U	<0.000281 U	<0.000346 U	<0.000274 U	<0.000351 U	<0.000406 U	<0.000269 U	<0.000278 U
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOS	2355-31-9	NS	NS	NS	NS	mg/kg	<0.00033 U	<0.000399 U	<0.000262 U	<0.000315 U	<0.000286 U	<0.000282 U	<0.000281 U	<0.000346 U	<0.000274 U	<0.000351 U	<0.000406 U	<0.000269 U	<0.000278 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	NS	mg/kg	<0.00033 U	<0.000399 U	<0.000262 U	<0.000315 U	<0.000286 U	<0.000282 U	<0.000281 U	<0.000346 U	<0.000274 U	<0.000351 U	<0.000406 U	<0.000269 U	<0.000278 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	NS	mg/kg	0.00583	<0.000399 U	<0.000262 U	0.00131	<0.000286 U	0.00168	0.00159	<0.000346 U	0.00059	0.0218	<0.000406 U	0.00561 J	0.00198 J
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	NS	mg/kg	<0.00033 U	<0.000399 U	<0.000262 U	<0.000315 U	<0.000286 U	<0.000282 U	<0.000281 U	<0.000346 U	<0.000274 U	<0.000351 U	<0.000406 U	<0.000269 U	<0.000278 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	NS	mg/kg	<0.00033 U	<0.000399 U	<0.000262 U	<0.000315 U	<0.000286 U	<0.000282 U	<0.000281 U	<0.000346 U	<0.000274 U	<0.000351 U	<0.000406 U	<0.000269 U	<0.000278 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	NS	mg/kg	<0.00033 U	<0.000399 U	<0.000262 U	<0.000315 U	<0.000286 U	<0.000282 U	<0.000281 U	<0.000346 U	<0.000274 U	<0.000351 U	<0.000406 U	<0.000269 U	0.000282
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	NS	mg/kg	<0.00033 U	<0.000399 U	<0.000262 U	<0.000315 U	<0.000286 U	<0.000282 U	<0.000281 U	<0.000346 U	<0.000274 U	<0.000351 U	<0.000406 U	<0.000269 U	<0.000278 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	NS	mg/kg	<0.00033 U	<0.000399 U	<0.000262 U	<0.000315 U	<0.000286 U	<0.000282 U	<0.000281 U	<0.000346 U	<0.000274 U	<0.000351 U	<0.000406 U	<0.000269 U	<0.000278 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	NS	mg/kg	<0.00033 U	<0.000399 U	<0.000262 U	<0.000315 U	<0.000286 U	<0.000282 U	<0.000281 U	<0.000346 U	<0.000274 U	<0.000351 U	<0.000406 U	<0.000269 U	<0.000276 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	NS	mg/kg	<0.00033 U	<0.000399 U	<0.000262 U	<0.000315 U	<0.000286 U	<0.000282 U	<0.000281 U	<0.000346 U	<0.000274 U	<0.000351 U	<0.000406 U	<0.000269 U	0.000392
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	NS	mg/kg	<0.00033 U	<0.000399 U	<0.000262 U	<0.000315 U	<0.000286 U	<0.000282 U	<0.000281 U	<0.000346 U	<0.000274 U	<0.000351 U	<0.000406 U	<0.000269 U	<0.000278 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	NS	mg/kg	<0.00033 U	<0.000399 U	<0.000262 U	<0.000315 U	<0.000286 U	<0.000282 U	<0.000281 U	<0.000346 U	<0.000274 U	<0.000351 U	<0.000406 U	<0.000269 U	<0.000278 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.044	0.44	mg/kg	**0.00105**	<0.000399 U	<0.000262 U	<0.000315 U	<0.000286 U	0.00034	0.000504	<0.000346 U	**0.000998**	**0.00187**	<0.000406 U	0.000535	0.000679
Perfluorooctanoic Acid (PFOA)	335-67-1	0.00066	0.0011	0.033	0.5	mg/kg	<0.00033 U	<0.000399 U	<0.000262 U	<0.000315 U	<0.000286 U	<0.000282 U	<0.000281 U	<0.000346 U	<0.000274 U	<0.000351 U	<0.000406 U	<0.000269 U	<0.000278 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	NS	mg/kg	<0.00033 U	<0.000399 U	<0.000262 U	<0.000315 U	<0.000286 U	<0.000282 U	<0.000281 U	<0.000346 U	<0.000274 U	<0.000351 U	<0.000406 U	<0.000269 U	<0.000278 U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	NS	mg/kg	<0.00033 U	<0.000399 U	<0.000262 U	<0.000315 U	<0.000286 U	<0.000282 U	<0.000281 U	<0.000346 U	<0.000274 U	<0.000351 U	<0.000406 U	<0.000269 U	<0.000278 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	NS	mg/kg	<0.00033 U	<0.000399 U	<0.000262 U	<0.000315 U	<0.000286 U	<0.000282 U	<0.000281 U	<0.000346 U	<0.000274 U	<0.000351 U	<0.000406 U	<0.000269 U	<0.000278 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	NS	mg/kg	<0.00033 U	<0.000399 U	<0.000262 U	<0.000315 U	<0.000286 U	<0.000282 U	<0.000281 U	<0.000346 U	<0.000274 U	<0.000351 U	<0.000406 U	<0.000269 U	<0.000278 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FT	39108-34-4	NS	NS	NS	NS	mg/kg	<0.00033 U	<0.000399 U	<0.000262 U	<0.000315 U	<0.000286 U	<0.000282 U	<0.000281 U	<0.000346 U	<0.000274 U	<0.000351 UJ	<0.000406 U	<0.000269 U	<0.000278 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FT	27619-97-2	NS	NS	NS	NS	mg/kg	<0.00033 U	<0.000399 U	<0.000262 U	<0.000315 U	<0.000286 U	<0.000282 U	<0.000281 U	<0.000346 U	<0.000274 U	<0.000351 U	<0.000406 U	<0.000269 U	<0.000278 UJ

Notes provided on Page 25.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3B
Remedial Investigation Report
Soil Sample Analytical Results - Block 1825 (F)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	F-SB119	F-SB119	F-SB120	F-SB120	F-SB120	F-SB121	F-SB121	F-SB122	F-SB122	F-SB122	F-SB123	F-SB123
						Sample Name	F-SB119_5-7	F-SB119_9.5-11.5	F-SB120_0-2	F-SB120_6-8	F-SB120_10-12	F-SB121_0-2	F-SB121_5-7	F-SB122_0-2	F-SB122_6-8	F-SB122_9-11	F-SB123_0-2	F-SB123_4-6
						Sample Date	10/04/2021	10/04/2021	09/17/2021	09/17/2021	09/17/2021	09/17/2021	09/17/2021	09/20/2021	09/20/2021	09/20/2021	10/04/2021	10/04/2021
						Sample Depth	5-7	9.5-11.5	0-2	6-8	10-12	0-2	5-7	0-2	6-8	9-11	0-2	4-6
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																		
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	500	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
1,1-Dichloroethane	75-34-3	0.27	0.27	26	240	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
1,1-Dichloroethene	75-35-4	0.33	0.33	100	500	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
1,2,4-Trimethylbenzene	95-63-6	3.6	3.6	52	190	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	500	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
1,2-Dichloroethane	107-06-2	0.02	0.02	3.1	30	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	52	190	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	280	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	130	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.057 U	<0.078 U	<0.078 U	<0.049 U	<0.077 U	<0.046 U	<0.071 U	<0.06 U	<0.063 U	<0.084 U	<0.062 U	<0.053 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
Acetone	67-64-1	**0.05**	0.05	100	500	mg/kg	**0.16**	0.048	0.015 J	**0.092**	**0.071**	0.033	**0.1**	**0.059**	**0.075**	0.034	**0.26 J**	0.025
Acrolein	107-02-8	NS	NS	NS	NS	mg/kg	<0.0057 U	<0.0078 U	<0.0078 U	<0.0049 U	<0.0077 U	<0.0046 U	<0.0071 U	<0.006 U	<0.0063 U	<0.0084 U	<0.0062 U	<0.0053 U
Acrylonitrile	107-13-1	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
Benzene	71-43-2	**0.06**	0.06	4.8	44	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	0.0045 J	<0.0026 U
Bromochloromethane	74-97-5	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
Bromodichloromethane	75-27-4	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
Bromoform	75-25-2	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0039 UJ	<0.0024 UJ	<0.0038 UJ	<0.0023 UJ	<0.0035 UJ	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
Bromomethane	74-83-9	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
Carbon Disulfide	75-15-0	NS	NS	NS	NS	mg/kg	<0.0028 U	0.021	<0.0039 U	<0.0024 U	0.0086	<0.0023 U	<0.0035 U	0.0047 J	<0.0031 U	0.0049 J	0.0052 J	0.0037 J
Carbon Tetrachloride	56-23-5	0.76	0.76	2.4	22	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
Chlorobenzene	108-90-7	1.1	1.1	100	500	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
Chloroethane	75-00-3	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
Chloroform	67-66-3	0.37	0.37	49	350	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
Chloromethane	74-87-3	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	100	500	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
Cyclohexane	110-82-7	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	0.0066 J	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
Dibromochloromethane	124-48-1	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
Dibromomethane	74-95-3	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
Ethylbenzene	100-41-4	**1**	1	41	390	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	0.0036 J	<0.0026 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
M,P-Xylene	179601-23-1	NS	NS	NS	NS	mg/kg	<0.0057 U	<0.0078 U	<0.0078 U	<0.0049 U	<0.0077 U	<0.0046 U	<0.0071 U	<0.006 U	<0.0063 U	<0.0084 U	0.0087 J	<0.0053 U
Methyl Acetate	79-20-9	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	**0.12**	0.12	100	500	mg/kg	0.037	0.007 J	<0.0039 U	0.026	0.012	0.0055	0.019	0.0088	0.016	0.0056 J	0.11	0.003 J
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
Methylcyclohexane	108-87-2	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
Methylene Chloride	75-09-2	**0.05**	0.05	100	500	mg/kg	<0.0057 U	<0.0078 U	<0.0078 U	<0.0049 U	0.028	<0.0093 U	<0.0071 U	0.02	0.013 J	<0.017 U	<0.0062 U	<0.0053 U
n-Butylbenzene	104-51-8	12	12	100	500	mg/kg	<0.0028 UJ	<0.0039 UJ	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 UJ	<0.0026 UJ
n-Propylbenzene	103-65-1	**3.9**	3.9	100	500	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	0.0084	<0.0026 U
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
Sec-Butylbenzene	135-98-8	11	11	100	500	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
Styrene	100-42-5	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
T-Butylbenzene	98-06-6	5.9	5.9	100	500	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
Tert-Butyl Alcohol	75-65-0	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	0.021	<0.0031 U	<0.0026 U
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	100	500	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	19	150	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
Toluene	108-88-3	**0.7**	0.7	100	500	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
Total Xylenes	1330-20-7	**0.26**	1.6	100	500	mg/kg	<0.0065 U	<0.012 U	<0.012 U	<0.0073 U	<0.012 U	<0.007 U	<0.011 U	<0.009 U	<0.0094 U	<0.013 U	0.017 J	<0.0079 U
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	100	500	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
Trichloroethene (TCE)	79-01-6	0.47	0.47	21	200	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	NS	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U
Vinyl Chloride	75-01-4	0.02	0.02	0.9	13	mg/kg	<0.0028 U	<0.0039 U	<0.0039 U	<0.0024 U	<0.0038 U	<0.0023 U	<0.0035 U	<0.003 U	<0.0031 U	<0.0042 U	<0.0031 U	<0.0026 U

Notes provided on Page 25.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3B
Remedial Investigation Report
Soil Sample Analytical Results - Block 1825 (F)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	F-SB119	F-SB119	F-SB120	F-SB120	F-SB120	F-SB121	F-SB121	F-SB122	F-SB122	F-SB122	F-SB123	F-SB123
						Sample Name	F-SB119_5-7	F-SB119_9.5-11.5	F-SB120_0-2	F-SB120_6-8	F-SB120_10-12	F-SB121_0-2	F-SB121_5-7	F-SB122_0-2	F-SB122_6-8	F-SB122_9-11	F-SB123_0-2	F-SB123_4-6
						Sample Date	10/04/2021	10/04/2021	09/17/2021	09/17/2021	09/17/2021	09/17/2021	09/17/2021	09/20/2021	09/20/2021	09/20/2021	10/04/2021	10/04/2021
						Sample Depth	5-7	9.5-11.5	0-2	6-8	10-12	0-2	5-7	0-2	6-8	9-11	0-2	4-6
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																		
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	NS	mg/kg	<0.111 U	<0.143 U	<0.101 U	<0.103 U	<0.121 U	<0.0919 U	<0.136 U	<0.108 U	<0.106 U	<0.144 U	<0.0987 U	<0.115 U
1,2-Diphenylhydrazine	122-66-7	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.0194 U	<0.0192 U	<0.019 U	<0.0196 U	<0.0187 U	<0.0189 U	<0.0192 U	<0.0187 U	<0.0189 U	<0.0189 U	<0.0194 U	<0.0196 U
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	NS	mg/kg	<0.111 U	<0.143 U	<0.101 U	<0.103 U	<0.121 U	<0.0919 U	<0.136 U	<0.108 U	<0.106 U	<0.144 U	<0.0987 U	<0.115 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	NS	mg/kg	<0.111 U	<0.143 U	<0.101 U	<0.103 U	<0.121 U	<0.0919 U	<0.136 U	<0.108 U	<0.106 U	<0.144 U	<0.0987 U	<0.115 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
2-Chlorophenol	95-57-8	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	500	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
2-Nitroaniline	88-74-4	NS	NS	NS	NS	mg/kg	<0.111 U	<0.143 U	<0.101 U	<0.103 U	<0.121 U	<0.0919 U	<0.136 U	<0.108 U	<0.106 U	<0.144 U	<0.0987 U	<0.115 U
2-Nitrophenol	88-75-5	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	0.33	0.33	100	500	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
3-Nitroaniline	99-09-2	NS	NS	NS	NS	mg/kg	<0.111 U	<0.143 U	<0.101 U	<0.103 U	<0.121 U	<0.0919 U	<0.136 U	<0.108 U	<0.106 U	<0.144 U	<0.0987 U	<0.115 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	NS	mg/kg	<0.111 U	<0.143 U	<0.101 U	<0.103 U	<0.121 U	<0.0919 U	<0.136 U	<0.108 U	<0.106 U	<0.144 U	<0.0987 U	<0.115 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
4-Chloroaniline	106-47-8	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
4-Nitroaniline	100-01-6	NS	NS	NS	NS	mg/kg	<0.111 U	<0.143 U	<0.101 U	<0.103 U	<0.121 U	<0.0919 U	<0.136 U	<0.108 U	<0.106 U	<0.144 U	<0.0987 U	<0.115 U
4-Nitrophenol	100-02-7	NS	NS	NS	NS	mg/kg	<0.111 U	<0.143 U	<0.101 U	<0.103 U	<0.121 U	<0.0919 U	<0.136 U	<0.108 U	<0.106 U	<0.144 U	<0.0987 U	<0.115 U
Acenaphthene	83-32-9	20	98	100	500	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
Acenaphthylene	208-96-8	100	107	100	500	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
Acetophenone	98-86-2	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	0.222 J	<0.0577 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	NS	NS	NS	mg/kg	<0.223 U	<0.286 U	<0.202 U	<0.206 U	<0.241 U	<0.184 U	<0.272 U	<0.216 U	<0.213 U	<0.288 U	<0.198 U	<0.231 U
Anthracene	120-12-7	100	1000	100	500	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
Atrazine	1912-24-9	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
Benzaldehyde	100-52-7	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
Benzidine	92-87-5	NS	NS	NS	NS	mg/kg	<0.223 U	<0.286 U	<0.202 U	<0.206 U	<0.241 U	<0.184 U	<0.272 U	<0.216 U	<0.213 U	<0.288 U	<0.198 U	<0.231 U
Benzo(a)anthracene	56-55-3	**1**	1	1	5.6	mg/kg	0.103 JD	<0.0716 U	0.293 D	<0.0514 U	<0.0604 U	0.0926 D	0.348 D	0.0672 JD	<0.0532 U	<0.0721 U	0.102 D	<0.0577 U
Benzo(a)pyrene	50-32-8	**1**	22	1	1	mg/kg	0.22 D	<0.0716 U	0.238 D	<0.0514 U	<0.0604 U	0.123 D	0.278 D	0.0741 JD	<0.0532 U	<0.0721 U	0.0915 JD	<0.0577 U
Benzo(b)fluoranthene	205-99-2	**1**	1.7	1	5.6	mg/kg	0.191 D	<0.0716 U	0.237 D	<0.0514 U	<0.0604 U	0.097 D	0.281 D	0.0689 JD	<0.0532 U	<0.0721 U	0.0876 JD	<0.0577 U
Benzo(g,h,i)Perylene	191-24-2	100	1000	100	500	mg/kg	0.201 D	<0.0716 U	0.157 D	<0.0514 U	<0.0604 U	0.124 D	0.219 D	0.0552 JD	<0.0532 U	<0.0721 U	0.056 JD	<0.0577 U
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	3.9	56	mg/kg	0.135 D	<0.0716 U	0.199 D	<0.0514 U	<0.0604 U	0.0683 JD	0.235 D	<0.054 U	<0.0532 U	<0.0721 U	0.0694 JD	<0.0577 U
Benzoic Acid	65-85-0	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
Benzyl Alcohol	100-51-6	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	0.0734 JD	<0.0577 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	0.112 D	<0.0577 U
Caprolactam	105-60-2	NS	NS	NS	NS	mg/kg	<0.111 U	<0.143 U	<0.101 U	<0.103 U	<0.121 U	<0.0919 U	<0.136 U	<0.108 U	<0.106 U	<0.144 U	<0.0987 U	<0.115 U
Carbazole	86-74-8	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
Chrysene	218-01-9	**1**	1	3.9	56	mg/kg	0.107 JD	<0.0716 U	0.286 D	<0.0514 U	<0.0604 U	0.0874 JD	0.383 D	0.0595 JD	<0.0532 U	<0.0721 U	0.0986 JD	<0.0577 U
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.33	0.56	mg/kg	0.0588 JD	<0.0716 U	0.0614 JD	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
Dibenzofuran	132-64-9	7	210	59	350	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
Dibutyl phthalate	84-74-2	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	0.268 D	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
Diethyl phthalate	84-66-2	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
Dimethyl phthalate	131-11-3	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	0.431 D	<0.0577 U
Dioctyl phthalate	117-84-0	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
Diphenylamine	122-39-4	NS	NS	NS	NS	mg/kg	<0.111 U	<0.143 U	<0.101 U	<0.103 U	<0.121 U	<0.0919 U	<0.136 U	<0.108 U	<0.106 U	<0.144 U	<0.0987 U	<0.115 U
Fluoranthene	206-44-0	100	1000	100	500	mg/kg	0.105 JD	<0.0716 U	0.477 D	<0.0514 U	<0.0604 U	0.123 D	0.709 D	0.122 D	<0.0532 U	<0.0721 U	0.215 D	<0.0577 U
Fluorene	86-73-7	30	386	100	500	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
Hexachlorobenzene	118-74-1	**0.33**	3.2	1.2	6	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 UJ	<0.0577 U
Hexachloroethane	67-72-1	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	0.5	5.6	mg/kg	0.235 D	<0.0716 U	0.174 D	<0.0514 U	<0.0604 U	0.111 D	0.229 D	0.0629 JD	<0.0532 U	<0.0721 U	0.0568 JD	<0.0577 U
Isophorone	78-59-1	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
Naphthalene	91-20-3	12	12	100	500	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
Nitrobenzene	98-95-3	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
n-Nitrosodimethylamine	62-75-9	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	NS	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	6.7	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
Phenanthrene	85-01-8	100	1000	100	500	mg/kg	0.0704 JD	<0.0716 U	0.281 D	<0.0514 U	<0.0604 U	0.0514 JD	0.282 D	0.0595 JD	<0.0532 U	<0.0721 U	0.134 D	<0.0577 U
Phenol	108-95-2	0.33	0.33	100	500	mg/kg	<0.0559 U	<0.0716 U	<0.0506 U	<0.0514 U	<0.0604 U	<0.0461 U	<0.068 U	<0.054 U	<0.0532 U	<0.0721 U	<0.0495 U	<0.0577 U
Pyrene	129-00-0	100	1000	100	500	mg/kg	0.0998 JD	<0.0716 U	0.458 D	<0.0514 U	<0.0604 U	0.154 D	0.77 D	0.115 D	<0.0532 U	<0.0721 U	0.17 D	<0.0577 U
Pyridine	110-86-1	NS	NS	NS	NS	mg/kg	<0.223 U	<0.286 U	<0.202 U	<0.206 U	<0.241 U	<0.184 U	<0.272 U	<0.216 U	<0.213 U	<0.288 U	<0.198 U	<0.231 U

Notes provided on Page 25.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3B
Remedial Investigation Report
Soil Sample Analytical Results - Block 1825 (F)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	F-SB119	F-SB119	F-SB120	F-SB120	F-SB120	F-SB121	F-SB121	F-SB122	F-SB122	F-SB122	F-SB123	F-SB123
						Sample Name	F-SB119_5-7	F-SB119_9.5-11.5	F-SB120_0-2	F-SB120_6-8	F-SB120_10-12	F-SB121_0-2	F-SB121_5-7	F-SB122_0-2	F-SB122_6-8	F-SB122_9-11	F-SB123_0-2	F-SB123_4-6
						Sample Date	10/04/2021	10/04/2021	09/17/2021	09/17/2021	09/17/2021	09/17/2021	09/17/2021	09/20/2021	09/20/2021	09/20/2021	10/04/2021	10/04/2021
						Sample Depth	5-7	9.5-11.5	0-2	6-8	10-12	0-2	5-7	0-2	6-8	9-11	0-2	4-6
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Petroleum Hydrocarbons																		
Total Petroleum Hydrocarbons	TPH	NS	NS	NS	NS	UNKNOWN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides																		
4,4'-DDD	72-54-8	**0.0033**	14	13	92	mg/kg	<0.0022 U	<0.00283 U	<0.00204 U	<0.00207 U	<0.00241 U	<0.00182 U	<0.00268 U	<0.0021 U	<0.00205 U	<0.0028 U	<0.00197 U	<0.00227 U
4,4'-DDE	72-55-9	**0.0033**	17	8.9	62	mg/kg	<0.0022 U	<0.00283 U	<0.00204 U	<0.00207 U	<0.00241 U	<0.00182 U	<0.00268 U	<0.0021 U	<0.00205 U	<0.0028 U	<0.00197 U	<0.00227 U
4,4'-DDT	50-29-3	**0.0033**	136	7.9	47	mg/kg	<0.0022 U	<0.00283 U	<0.00204 U	<0.00207 U	<0.00241 U	<0.00182 U	<0.00268 U	<0.0021 U	<0.00205 U	<0.0028 U	<0.00197 U	<0.00227 U
Aldrin	309-00-2	0.005	0.19	0.097	0.68	mg/kg	<0.0022 U	<0.00283 U	<0.00204 U	<0.00207 U	<0.00241 U	<0.00182 U	<0.00268 U	<0.0021 U	<0.00205 U	<0.0028 U	<0.00197 U	<0.00227 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	0.48	3.4	mg/kg	<0.0022 U	<0.00283 U	<0.00204 U	<0.00207 U	<0.00241 U	<0.00182 U	<0.00268 U	<0.0021 U	<0.00205 U	<0.0028 U	<0.00197 U	<0.00227 U
Alpha Chlordane	5103-71-9	0.094	2.9	4.2	24	mg/kg	<0.0022 U	<0.00283 U	<0.00204 U	<0.00207 U	<0.00241 U	<0.00182 U	<0.00268 U	<0.0021 U	<0.00205 U	<0.0028 U	<0.00197 U	<0.00227 U
Alpha Endosulfan	959-98-8	2.4	102	24	200	mg/kg	<0.0022 U	<0.00283 U	<0.00204 U	<0.00207 U	<0.00241 U	<0.00182 U	<0.00268 U	<0.0021 U	<0.00205 U	<0.0028 U	<0.00197 U	<0.00227 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	0.36	3	mg/kg	<0.0022 U	<0.00283 U	<0.00204 U	<0.00207 U	<0.00241 U	<0.00182 U	<0.00268 U	<0.0021 U	<0.00205 U	<0.0028 U	<0.00197 U	<0.00227 U
Beta Endosulfan	33213-65-9	2.4	102	24	200	mg/kg	<0.0022 U	<0.00283 U	<0.00204 U	<0.00207 U	<0.00241 U	<0.00182 U	<0.00268 U	<0.0021 U	<0.00205 U	<0.0028 U	<0.00197 U	<0.00227 U
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	NS	mg/kg	<0.044 U	<0.0565 U	<0.0408 U	<0.0414 U	<0.0482 U	<0.0364 U	<0.0535 U	<0.042 U	<0.0411 U	<0.056 U	<0.0393 U	<0.0454 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	100	500	mg/kg	<0.0022 U	<0.00283 U	<0.00204 U	<0.00207 U	<0.00241 U	<0.00182 U	<0.00268 U	<0.0021 U	<0.00205 U	<0.0028 U	<0.00197 U	<0.00227 U
Dieldrin	60-57-1	**0.005**	0.1	0.2	1.4	mg/kg	<0.0022 U	<0.00283 U	<0.00204 U	<0.00207 U	<0.00241 U	<0.00182 U	<0.00268 U	<0.0021 U	<0.00205 U	<0.0028 U	<0.00197 U	<0.00227 U
Endosulfan Sulfate	1031-07-8	2.4	1000	24	200	mg/kg	<0.0022 U	<0.00283 U	<0.00204 U	<0.00207 U	<0.00241 U	<0.00182 U	<0.00268 U	<0.0021 U	<0.00205 U	<0.0028 U	<0.00197 U	<0.00227 U
Endrin	72-20-8	0.014	0.06	11	89	mg/kg	<0.0022 U	<0.00283 U	<0.00204 U	<0.00207 U	<0.00241 U	<0.00182 U	<0.00268 U	<0.0021 U	<0.00205 U	<0.0028 U	<0.00197 U	<0.00227 U
Endrin Aldehyde	7421-93-4	NS	NS	NS	NS	mg/kg	<0.0022 U	<0.00283 U	<0.00204 U	<0.00207 U	<0.00241 U	<0.00182 U	<0.00268 U	<0.0021 U	<0.00205 U	<0.0028 U	<0.00197 U	<0.00227 U
Endrin Ketone	53494-70-5	NS	NS	NS	NS	mg/kg	<0.0022 U	<0.00283 U	<0.00204 U	<0.00207 U	<0.00241 U	<0.00182 U	<0.00268 U	<0.0021 U	<0.00205 U	<0.0028 U	<0.00197 U	<0.00227 U
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	1.3	9.2	mg/kg	<0.0022 U	<0.00283 U	<0.00204 U	<0.00207 U	<0.00241 U	<0.00182 U	<0.00268 U	<0.0021 U	<0.00205 U	<0.0028 U	<0.00197 U	<0.00227 U
Gamma-Chlordane	5566-34-7	NS	NS	NS	NS	mg/kg	<0.0022 U	<0.00283 U	<0.00204 U	<0.00207 U	<0.00241 U	<0.00182 U	<0.00268 U	<0.0021 U	<0.00205 U	<0.0028 U	<0.00197 U	<0.00227 U
Heptachlor	76-44-8	0.042	0.38	2.1	15	mg/kg	<0.0022 U	<0.00283 U	<0.00204 U	<0.00207 U	<0.00241 U	<0.00182 U	<0.00268 U	<0.0021 U	<0.00205 U	<0.0028 U	<0.00197 U	<0.00227 U
Heptachlor Epoxide	1024-57-3	NS	NS	NS	NS	mg/kg	<0.0022 U	<0.00283 U	<0.00204 U	<0.00207 U	<0.00241 U	<0.00182 U	<0.00268 U	<0.0021 U	<0.00205 U	<0.0028 U	<0.00197 U	<0.00227 U
Methoxychlor	72-43-5	NS	NS	NS	NS	mg/kg	<0.0022 U	<0.00283 U	<0.00204 U	<0.00207 U	<0.00241 U	<0.00182 U	<0.00268 U	<0.0021 U	<0.00205 U	<0.0028 U	<0.00197 U	<0.00227 U
Toxaphene	8001-35-2	NS	NS	NS	NS	mg/kg	<0.22 U	<0.283 U	<0.204 U	<0.207 U	<0.241 U	<0.182 U	<0.268 U	<0.21 U	<0.205 U	<0.28 U	<0.197 U	<0.227 U
Herbicides																		
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	NS	mg/kg	<0.0271 U	<0.0344 U	<0.0245 U	<0.0246 U	<0.0289 U	<0.022 U	<0.0323 U	<0.0259 U	<0.0254 U	<0.0344 U	<0.0197 U	<0.0229 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	NS	mg/kg	<0.0271 U	<0.0344 U	<0.0245 U	<0.0246 U	<0.0289 U	<0.022 U	<0.0323 U	<0.0259 U	<0.0254 U	<0.0344 U	<0.0197 U	<0.0229 U
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	100	500	mg/kg	<0.0271 U	<0.0344 U	<0.0245 U	<0.0246 U	<0.0289 U	<0.022 U	<0.0323 U	<0.0259 U	<0.0254 U	<0.0344 U	<0.0197 U	<0.0229 U
Polychlorinated Biphenyl																		
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	NS	mg/kg	<0.0222 U	<0.0285 U	<0.0206 U	<0.0209 U	<0.0243 U	<0.0184 UJ	<0.027 U	<0.0212 U	<0.0207 U	<0.0283 U	<0.0198 U	<0.0229 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	NS	mg/kg	<0.0222 U	<0.0285 U	<0.0206 U	<0.0209 U	<0.0243 U	<0.0184 UJ	<0.027 U	<0.0212 U	<0.0207 U	<0.0283 U	<0.0198 U	<0.0229 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	NS	mg/kg	<0.0222 U	<0.0285 U	<0.0206 U	<0.0209 U	<0.0243 U	<0.0184 UJ	<0.027 U	<0.0212 U	<0.0207 U	<0.0283 U	<0.0198 U	<0.0229 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	NS	mg/kg	<0.0222 U	<0.0285 U	<0.0206 U	<0.0209 U	<0.0243 U	<0.0184 UJ	<0.027 U	<0.0212 U	<0.0207 U	<0.0283 U	<0.0198 U	<0.0229 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	NS	mg/kg	<0.0222 U	<0.0285 U	<0.0206 U	<0.0209 U	<0.0243 U	<0.0184 UJ	<0.027 U	<0.0212 U	<0.0207 U	<0.0283 U	<0.0198 U	<0.0229 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	NS	mg/kg	<0.0222 U	<0.0285 U	<0.0206 U	<0.0209 U	<0.0243 U	<0.0184 UJ	<0.027 U	<0.0212 U	<0.0207 U	<0.0283 U	<0.0198 U	<0.0229 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	NS	mg/kg	<0.0222 U	<0.0285 U	<0.0206 U	<0.0209 U	<0.0243 U	<0.0184 UJ	<0.027 U	<0.0212 U	<0.0207 U	<0.0283 U	<0.0198 U	<0.0229 U
Total PCBs	1336-36-3	**0.1**	3.2	1	1	mg/kg	<0.0222 U	<0.0285 U	<0.0206 U	<0.0209 U	<0.0243 U	<0.0184 UJ	<0.027 U	<0.0212 U	<0.0207 U	<0.0283 U	<0.0198 U	<0.0229 U
Metals																		
Aluminum	7429-90-5	NS	NS	NS	NS	mg/kg	6,420	20,100	5,730	266	303	6,070	10,800	10,100	5,930	20,100	5,400	8,280
Antimony	7440-36-0	NS	NS	NS	NS	mg/kg	10.6	6.67	<3.11 U	<3.16 U	<3.68 U	<2.77 U	<4.11 U	6.51	<3.2 U	<4.36 U	11	4.01
Arsenic	7440-38-2	**13**	16	16	16	mg/kg	4.39	4.85	4.9	1.9	3.69	6.62	4.65	5.28	5.67	9.67	<1.8 U	8.31
Barium	7440-39-3	**350**	820	400	400	mg/kg	320	58.4	**507**	131	47.3	89.5	113	**547**	**641**	71.1	181	**1,580**
Beryllium	7440-41-7	7.2	47	72	590	mg/kg	0.301	<0.086 U	0.228	0.064	0.09	<0.055 U	<0.082 U	<0.065 U	<0.064 U	<0.087 U	<0.06 U	<0.069 U
Cadmium	7440-43-9	**2.5**	7.5	4.3	9.3	mg/kg	2.44	<0.517 U	1.96	1.32	2.35	**9.1**	<0.493 U	**33.9**	1.42	<0.523 U	2.47	1.97
Calcium	7440-70-2	NS	NS	NS	NS	mg/kg	33,500	3,870	2,600 B	2,650 B	1,520 B	88,000 B	2,700 B	18,000 B	6,110 B	3,370 B	54,200	24,500
Chromium, Hexavalent	18540-29-9	**1**	19	110	400	mg/kg	<0.686 U	<0.862 U	<0.622 U	<0.632 U	<0.735 U	<0.555 U	<0.821 U	<0.653 U	<0.641 U	<0.871 U	<0.6 U	<0.693 U
Chromium, Total	7440-47-3	NS	NS	NS	NS	mg/kg	21.8	40.1	25.7	13	29.2	31.5	26	46.4	21.7	40.2	69.4	36.8
Chromium, Trivalent	16065-83-1	**30**	NS	180	1500	mg/kg	21.8	**40.1**	25.7	13	29.2	**31.5**	26	**46.4**	21.7	**40.2**	**69.4**	**36.8**
Cobalt	7440-48-4	NS	NS	NS	NS	mg/kg	17.2	14.8	8.9	6.28	9.9	4.86	6.5	12.8	8.41	14.6	16.1	10.6
Copper	7440-50-8	**50**	1720	270	270	mg/kg	**1,310**	21.6	**101**	33.5	9.24	**140**	**101**	**33,900 D**	**203**	22.1	**175**	**135**
Cyanide	57-12-5	27	40	27	27	mg/kg	<0.686 U	<0.862 U	0.765	0.651	<0.735 U	<0.555 U	<0.821 U	<0.653 U	<0.641 U	<0.871 U	<0.6 U	<0.693 U
Iron	7439-89-6	NS	NS	NS	NS	mg/kg	101,000	37,900	32,300	2,810	3,820	7,730	20,700	58,000 B	43,800 B	37,800 B	72,600	37,700
Lead	7439-92-1	**63**	450	400	1000	mg/kg	**938**	20.8	**490**	**90.7**	12.8	**236**	**92.2**	**1,950**	**652**	22.5	**531**	**402**
Magnesium	7439-95-4	NS	NS	NS	NS	mg/kg	972	9,800	1,100	653	2,980	47,100	4,040	3,110	1,120	10,200	9,900	3,430
Manganese	7439-96-5	**1600**	2000	2000	10000	mg/kg	**1,620**	891	312	125	745	255	220	406	321	1,060	640	484
Mercury	7439-97-6	**0.18**	0.73	0.81	2.8	mg/kg	**1.42**	0.131	**1.01**	0.162	0.0739	0.0751	**0.24**	**0.713**	**0.537**	0.12	**0.327**	**0.314**
Nickel	7440-02-0	**30**	130	310	310	mg/kg	**155 J**	**30.6 J**	26.3	17.4	26.5	22	15.7	**195 B**	28.2 B	**34.9 B**	**67.5 J**	**43 J**
Potassium	7440-09-7	NS	NS	NS	NS	mg/kg	637 B	4,770 B	639	299	2,420	546	2,910	1,240	943	5,200	577 B	1,110 B
Selenium	7782-49-2	**3.9**	4	180	1500	mg/kg	<3.43 U	<4.31 U	<3.11 U	<3.16 U	<3.68 U	**15.3**	<4.11 U	<3.26 U	<3.2 U	<4.36 U	<3 U	<3.47 U
Silver	7440-22-4	**2**	8.3	180	1500	mg/kg	<0.686 U	<0.862 U	<0.622 U	<0.632 U	<0.735 U	<0.555 U	<0.821 U	<0.653 U	<0.641 U	<0.871 U	<0.6 U	<0.693 U
Sodium	7440-23-5	NS	NS	NS	NS	mg/kg	410	8,090	126	68.9	1,650	132	804	159	276	3,570	222	679
Thallium	7440-28-0	NS	NS	NS	NS	mg/kg	9.7	<4.31 U	<3.11 U	<3.16 U	<3.68 U	<2.77 U	<4.11 U	13.3	<3.2 U	<4.36 U	<3 U	<3.47 U
Vanadium	7440-62-2	NS	NS	NS	NS	mg/kg	26.3	46.8	29	17.4	40.1	25.9	30.8	27.9	25.9	50.9	18	26.4
Zinc	7440-66-6	**109**	2480	10000	10000	mg/kg	**884**	94.2	**491**	**272**	59.8	**241**	**127**	**3,540**	**965**	95.1	**635**	**1,620**
General Chemistry																		
Solids, Percent	SOLID	NS	NS	NS	NS	Percent	72.9	58	80.4	79.2	68	90.1	60.9	76.6	78	57.4	83.4	72.1
Perfluorooctanoic acids																		
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA	2991-50-6	NS	NS	NS	NS	mg/kg	<0.000331 U	<0.000388 U	<0.000283 U	<0.000259 U	<0.000323 U	<0.000261 U	<0.000392 U	<0.000271 U	<0.000313 U	<0.000385 U	<0.000269 U	<0.000321 U
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOS	2355-31-9	NS	NS	NS	NS	mg/kg	<0.000331 U	<0.000388 U	<0.000283 U	<0.000259 U	<0.000323 U	<0.000261 U	<0.000392 U	<0.000271 U	<0.000313 U	<0.000385 U	<0.000269 U	<0.000321 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	NS	mg/kg	<0.000331 U	<0.000388 U	<0.000283 U	<0.000259 U	<0.000323 U	<0.000261 U	<0.000392 U	<0.000271 U	<0.000313 U	<0.000385 U	<0.000269 U	<0.000321 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	NS	mg/kg	<0.000331 U	<0.000388 U	0.000966	0.00397	<0.000323 U	0.000651	0.00124	<0.000271 U	0.00046	<0.000385 U	0.00697	0.0188
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	NS	mg/kg	<0.000331 U	<0.000388 U	<0.000283 U	<0.000259 U	<0.000323 U	<0.000261 U	<0.000392 U	<0.000271 U	<0.000313 U	<0.000385 U	<0.000269 U	<0.000321 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	NS	mg/kg	<0.000331 U	<0.000388 U	<0.000283 U	<0.000259 U	<0.000323 U	<0.000261 U	<0.000392 U	<0.000271 U	<0.000313 U	<0.000385 U	<0.000269 U	<0.000321 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	NS	mg/kg	<0.000331 U	<0.000388 U	<0.000283 U	<0.000259 U	<0.000323 U	<0.000261 U	<0.000392 U	<0.000271 U	<0.000313 U	<0.000385 U	<0.000269 U	<0.000321 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	NS	mg/kg	<0.000331 U	<0.000388 U	<0.000283 U	<0.000259 U	<0.000323 U	<0.000261 U	<0.000392 U	<0.000271 U	<0.000313 U	<0.000385 U	<0.000269 U	<0.000321 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	NS	mg/kg	<0.000331 U	<0.000388 U	<0.000283 U	<0.000259 U	<0.000323 U	<0.000261 U	<0.000392 U	<0.000271 U	<0.000313 U	<0.000385 U	<0.000269 U	<0.000321 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	NS	mg/kg	<0.000331 U	<0.000388 U	<0.000283 U	<0.000259 U	<0.000323 U	<0.000261 U	<0.000392 U	<0.000271 U	<0.000313 U	<0.000385 U	<0.000269 U	<0.000321 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	NS	mg/kg	<0.000331 U	<0.000388 U	<0.000283 U	<0.000259 U	<0.000323 U	<0.000261 U	<0.000392 U	<0.000271 U	<0.000313 U	<0.000385 U	<0.000269 U	0.000446
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	NS	mg/kg	<0.000331 U	<0.000388 U	<0.000283 U	<0.000259 U	<0.000323 U	<0.000261 U	<0.000392 U	<0.000271 U	<0.000313 U	<0.000385 U	<0.000269 U	<0.000321 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	NS	mg/kg	<0.000331 U	<0.000388 U	<0.000283 U	<0.000259 U	<0.000323 U	<0.000261 U	<0.000392 U	<0.000271 U	<0.000313 U	<0.000385 U	<0.000269 U	<0.000321 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.044	0.44	mg/kg	<0.000331 U	<0.000388 U	**0.00554**	0.000531	<0.000323 U	**0.00103**	0.000827	<0.000271 U	<0.000313 U	<0.000385 U	0.000412	<0.000321 U
Perfluorooctanoic Acid (PFOA)	335-67-1	0.00066	0.0011	0.033	0.5	mg/kg	<0.000331 U	<0.000388 U	0.000386	<0.000259 U	<0.000323 U	<0.000261 U	<0.000392 U	<0.000271 U	<0.000313 U	<0.000385 U	<0.000269 U	<0.000321 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	NS	mg/kg	<0.000331 U	<0.000388 U	<0.000283 U	<0.000259 U	<0.000323 U	<0.000261 U	<0.000392 U	<0.000271 U	<0.000313 U	<0.000385 U	<0.000269 U	<0.000321 U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	NS	mg/kg	<0.000331 U	<0.000388 U	<0.000283 U	<0.000259 U	<0.000323 U	<0.000261 U	<0.000392 U	<0.000271 U	<0.000313 U	<0.000385 U	<0.000269 U	<0.000321 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	NS	mg/kg	<0.000331 U	<0.000388 U	<0.000283 U	<0.000259 U	<0.000323 U	<0.000261 U	<0.000392 U	<0.000271 U	<0.000313 U	<0.000385 U	<0.000269 U	<0.000321 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	NS	mg/kg	<0.000331 U	<0.000388 U	<0.000283 U	<0.000259 U	<0.000323 U	<0.000261 U	<0.000392 U	<0.000271 U	<0.000313 U	<0.000385 U	<0.000269 U	<0.000321 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FT	39108-34-4	NS	NS	NS	NS	mg/kg	<0.000331 U	<0.000388 U	<0.000283 U	<0.000259 U	<0.000323 U	<0.000261 U	<0.000392 U	<0.000271 U	<0.000313 U	<0.000385 U	<0.000269 U	<0.000321 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FT	27619-97-2	NS	NS	NS	NS	mg/kg	<0.000331 U	<0.000388 U	<0.000283 U	<0.000259 U	<0.000323 U	<0.000261 U	<0.000392 U	<0.000271 U	<0.000313 U	<0.000385 U	<0.000269 UJ	<0.000321 UJ

Notes provided on Page 25.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3B
Remedial Investigation Report
Soil Sample Analytical Results - Block 1825 (F)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Notes:

CAS - Chemical Abstract Service
NS - No standard
mg/kg - milligram per kilogram
NA - Not analyzed
RL - Reporting limit
<RL - Not detected
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 Unrestricted Use (UU), Protection of Groundwater (PGW), Restricted Use Restricted-Residential (RURR), and Restricted Use Commercial (CU) Soil Cleanup Objectives (SCO).
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).

Qualifiers:

D - The concentration reported is a result of a diluted sample.
B - The analyte was found in the associated analysis batch blank.
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.

Exceedance Summary:

10 - Result exceeds Unrestricted Use SCOs
10 - Result exceeds Protection of Groundwater SCOs
10 - Result exceeds Restricted Use Restricted-Residential SCOs
10 - Result exceeds Restricted Use Commercial SCOs

Table 3C
Remedial Investigation Report
Soil Sample Analytical Results - Block 1824 (G)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	G-EP101	G-EP101	G-EP101	G-EP101	G-EP102	G-EP102	G-EP102	G-EP103	G-EP103	G-EP103	G-EP103	G-EP107	G-EP107	G-EP114	G-EP114	G-EP120
						Sample Name	G-EP101_0-2	DUP04_092221	G-EP101_5.5-7.5	G-EP101_10-12	G-EP102_0-2	G-EP102_5.5-7.5	G-EP102_10-12	G-EP103_0-2	DUP06_092321	G-EP103_5-7	G-EP103_10.5-12	G-EP107_6-8	G-EP107_10-12	G-EP114_6-8	G-EP114_10-12	G-EP120_7.5-9.5
						Sample Date	09/22/2021	09/22/2021	09/22/2021	09/22/2021	09/22/2021	09/22/2021	09/22/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/22/2021	09/22/2021	10/08/2021
						Sample Depth	0-2	0-2	5.5-7.5	10-12	0-2	5.5-7.5	10-12	0-2	0-2	5-7	10.5-12	6-8	10-12	6-8	10-12	7.5-9.5
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																						
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	NS	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	500	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	NS	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	NS	NS	NS	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	NS	mg/kg	<0.0035 U	<0.0034 UJ	<0.0033 U	<0.0039 UJ	<0.0021 UJ	<0.0032 UJ	<0.0037 UJ	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 UJ	<0.28 U
1,1-Dichloroethane	75-34-3	0.27	0.27	26	240	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
1,1-Dichloroethene	75-35-4	0.33	0.33	100	500	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	NS	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	NS	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	NS	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
1,2,4-Trimethylbenzene	95-63-6	**3.6**	3.6	52	190	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	**87 D**	**57 D**	**34 D**	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	0.84 D
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	NS	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	NS	mg/kg	<0.0035 U	<0.0034 UJ	<0.0033 U	<0.0039 UJ	<0.0021 UJ	<0.0032 UJ	<0.0037 UJ	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 UJ	<0.28 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	500	mg/kg	<0.0035 U	<0.0034 UJ	<0.0033 U	<0.0039 UJ	<0.0021 UJ	<0.0032 UJ	<0.0037 UJ	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 UJ	<0.28 U
1,2-Dichloroethane	107-06-2	0.02	0.02	3.1	30	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	NS	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	**8.4**	8.4	52	190	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	**25 D**	**16 D**	0.26	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	280	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	130	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.07 U	<0.068 U	<0.065 U	<0.079 U	<0.041 U	<0.065 U	<0.075 U	<6.3 U	<6.2 U	<0.076 U	<0.055 U	<0.1 U	<0.094 U	<0.1 U	<0.081 U	<5.5 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	NS	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
Acetone	67-64-1	**0.05**	0.05	100	500	mg/kg	<0.007 U	<0.0068 U	**0.087**	0.049	<0.0041 U	0.022	0.025	<0.63 U	<0.62 U	**0.12**	0.027	**0.14**	0.045	0.029	**0.054**	<0.55 U
Acrolein	107-02-8	NS	NS	NS	NS	mg/kg	<0.007 U	<0.0068 U	<0.0065 U	<0.0079 U	<0.0041 U	<0.0065 U	<0.0075 U	<0.63 U	<0.62 U	<0.0076 U	<0.0055 U	<0.01 U	<0.0094 U	<0.01 U	<0.0081 U	<0.55 U
Acrylonitrile	107-13-1	NS	NS	NS	NS	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
Benzene	71-43-2	**0.06**	0.06	4.8	44	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	**0.39 JD**	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
Bromochloromethane	74-97-5	NS	NS	NS	NS	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
Bromodichloromethane	75-27-4	NS	NS	NS	NS	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
Bromoform	75-25-2	NS	NS	NS	NS	mg/kg	<0.0035 U	<0.0034 U	<0.0033 UJ	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
Bromomethane	74-83-9	NS	NS	NS	NS	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
Carbon Disulfide	75-15-0	NS	NS	NS	NS	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	0.013	<0.32 U	<0.31 U	0.013	<0.0028 U	0.024	0.012	<0.0051 U	0.0084	<0.28 U
Carbon Tetrachloride	56-23-5	0.76	0.76	2.4	22	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
Chlorobenzene	108-90-7	1.1	1.1	100	500	mg/kg	<0.0035 U	<0.0034 UJ	<0.0033 U	<0.0039 UJ	<0.0021 UJ	<0.0032 UJ	<0.0037 UJ	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 UJ	<0.28 U
Chloroethane	75-00-3	NS	NS	NS	NS	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
Chloroform	67-66-3	0.37	0.37	49	350	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
Chloromethane	74-87-3	NS	NS	NS	NS	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	100	500	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	NS	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
Cyclohexane	110-82-7	NS	NS	NS	NS	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	7.5 J	0.57 J	0.12	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
Dibromochloromethane	124-48-1	NS	NS	NS	NS	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
Dibromomethane	74-95-3	NS	NS	NS	NS	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	NS	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
Ethylbenzene	100-41-4	**1**	1	41	390	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	**8.4 J**	**3.9 J**	0.13	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	NS	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	1.9 D	1 D	0.03	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
M,P-Xylene	179601-23-1	NS	NS	NS	NS	mg/kg	<0.007 U	<0.0068 U	<0.0065 U	<0.0079 U	<0.0041 U	<0.0065 U	<0.0075 U	46 J	23 J	0.32	<0.0055 U	<0.01 U	<0.0094 U	<0.01 U	<0.0081 U	<0.55 U
Methyl Acetate	79-20-9	NS	NS	NS	NS	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	2.4 D	2.1 D	<0.0038 U	<0.0028 U	0.0073 J	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	0.12	0.12	100	500	mg/kg	<0.0035 U	<0.0034 U	0.027	0.012	<0.0021 U	0.0036 J	0.0051 J	<0.32 U	<0.31 U	0.023	0.0057	0.036	<0.0047 U	0.0079 J	0.013	<0.28 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	NS	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
Methylcyclohexane	108-87-2	NS	NS	NS	NS	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	6.4 J	3 J	0.1	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	0.47 JD
Methylene Chloride	75-09-2	0.05	0.05	100	500	mg/kg	0.014 J	<0.014 U	<0.013 U	0.02 J	0.011 J	0.015 J	<0.015 U	<0.63 U	<0.62 U	<0.0076 U	<0.0055 U	<0.001 U	<0.0094 U	<0.01 U	<0.0081 U	<0.55 U
n-Butylbenzene	104-51-8	12	12	100	500	mg/kg	<0.0035 U	<0.0034 UJ	<0.0033 U	<0.0039 UJ	<0.0021 UJ	<0.0032 UJ	<0.0037 UJ	9.4 J	1.1 J	0.1	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 UJ	<0.004 UJ	0.62 D
n-Propylbenzene	103-65-1	**3.9**	3.9	100	500	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	**6.5 J**	3.6 J	0.094	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	0.31 JD
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	NS	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	1.1 D	0.49 JD	0.016	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	NS	NS	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	1.1 D	0.7 D	0.012	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	0.29 JD
Sec-Butylbenzene	135-98-8	11	11	100	500	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	1.1 D	0.73 D	0.013	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	0.48 JD
Styrene	100-42-5	NS	NS	NS	NS	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
T-Butylbenzene	98-06-6	5.9	5.9	100	500	mg/kg	<0.0035 U	<0.0034 UJ	<0.0033 U	<0.0039 UJ	<0.0021 UJ	<0.0032 UJ	<0.0037 UJ	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 UJ	<0.004 UJ	<0.28 U
Tert-Butyl Alcohol	75-65-0	NS	NS	NS	NS	mg/kg	<0.0035 U	<0.0034 UJ	<0.0033 UJ	<0.0039 UJ	<0.0021 UJ	<0.0032 UJ	<0.0037 UJ	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	0.015 J	<0.28 UJ
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	100	500	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	0.0042 J	<0.0021 U	<0.0032 U	0.0055 J	<0.32 U	<0.31 U	0.0085	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	0.0055 J	<0.28 U
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	19	150	mg/kg	<0.0035 U	<0.0034 UJ	<0.0033 U	<0.0039 UJ	<0.0021 UJ	<0.0032 UJ	<0.0037 UJ	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 UJ	<0.28 U
Toluene	108-88-3	0.7	0.7	100	500	mg/kg	<0.0035 U	<0.0034 UJ	<0.0033 U	<0.0039 UJ	<0.0021 UJ	<0.0032 UJ	<0.0037 UJ	<0.32 U	<0.31 U	0.0075 J	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 UJ	<0.28 U
Total Xylenes	1330-20-7	**0.26**	1.6	100	500	mg/kg	<0.011 U	<0.01 U	<0.0098 U	<0.012 U	<0.0062 U	<0.0097 U	<0.011 U	**47 J**	**24 J**	**0.34**	<0.0083 U	<0.015 U	<0.014 U	<0.015 U	<0.012 U	<0.83 U
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	100	500	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	NS	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
Trichloroethene (TCE)	79-01-6	0.47	0.47	21	200	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	NS	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U
Vinyl Chloride	75-01-4	0.02	0.02	0.9	13	mg/kg	<0.0035 U	<0.0034 U	<0.0033 U	<0.0039 U	<0.0021 U	<0.0032 U	<0.0037 U	<0.32 U	<0.31 U	<0.0038 U	<0.0028 U	<0.005 U	<0.0047 U	<0.0051 U	<0.004 U	<0.28 U

Notes provided on Page 16.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3C
Remedial Investigation Report
Soil Sample Analytical Results - Block 1824 (G)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	G-EP101	G-EP101	G-EP101	G-EP101	G-EP102	G-EP102	G-EP102	G-EP103	G-EP103	G-EP103	G-EP103	G-EP107	G-EP107	G-EP114	G-EP114	G-EP120
						Sample Name	G-EP101_0-2	DUP04_092221	G-EP101_5.5-7.5	G-EP101_10-12	G-EP102_0-2	G-EP102_5.5-7.5	G-EP102_10-12	G-EP103_0-2	DUP06_092321	G-EP103_5-7	G-EP103_10.5-12	G-EP107_6-8	G-EP107_10-12	G-EP114_6-8	G-EP114_10-12	G-EP120_7.5-9.5
						Sample Date	09/22/2021	09/22/2021	09/22/2021	09/22/2021	09/22/2021	09/22/2021	09/22/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/22/2021	09/22/2021	10/08/2021
						Sample Depth	0-2	0-2	5.5-7.5	10-12	0-2	5.5-7.5	10-12	0-2	0-2	5-7	10.5-12	6-8	10-12	6-8	10-12	7.5-9.5
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																						
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	NS	mg/kg	<0.0946 U	<0.0957 U	<0.13 U	<0.139 U	<0.0865 U	<0.109 U	<0.128 U	<0.0954 U	<0.098 U	<0.129 U	<0.103 U	<0.266 U	<0.143 U	<0.115 U	<0.125 U	<0.111 U
1,2-Diphenylhydrazine	122-66-7	NS	NS	NS	NS	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 U	<0.0491 U	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.0189 U	<0.0194 U	<0.0183 U	<0.019 U	<0.0192 U	<0.0187 U	<0.019 U	<0.0187 U	<0.019 U	<0.0189 U	<0.0196 U	NA	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	NS	mg/kg	<0.0946 U	<0.0957 U	<0.13 U	<0.139 U	<0.0865 U	<0.109 U	<0.128 U	<0.0954 UJ	<0.098 UJ	<0.129 U	<0.103 U	<0.266 U	<0.143 U	<0.115 U	<0.125 U	<0.111 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	NS	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 UJ	<0.0491 UJ	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	NS	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 UJ	<0.0491 UJ	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	NS	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 UJ	<0.0491 UJ	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	NS	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 UJ	<0.0491 UJ	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	NS	mg/kg	<0.0946 U	<0.0957 U	<0.13 U	<0.139 U	<0.0865 U	<0.109 U	<0.128 U	<0.0954 UJ	<0.098 UJ	<0.129 U	<0.103 U	<0.266 U	<0.143 U	<0.115 U	<0.125 U	<0.111 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	NS	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 U	<0.0491 U	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	NS	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 U	<0.0491 U	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	NS	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 U	<0.0491 U	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
2-Chlorophenol	95-57-8	NS	NS	NS	NS	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 UJ	<0.0491 UJ	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	NS	mg/kg	<0.0474 U	<0.048 U	0.0917 JD	<0.0695 U	0.0678 JD	<0.0545 U	<0.0644 U	2.95 D	3.04 D	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	9.43 D
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	500	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 UJ	<0.0491 UJ	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
2-Nitroaniline	88-74-4	NS	NS	NS	NS	mg/kg	<0.0946 U	<0.0957 U	<0.13 U	<0.139 U	<0.0865 U	<0.109 U	<0.128 U	<0.0954 U	<0.098 U	<0.129 U	<0.103 U	<0.266 U	<0.143 U	<0.115 U	<0.125 U	<0.111 U
2-Nitrophenol	88-75-5	NS	NS	NS	NS	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 UJ	<0.0491 UJ	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	0.33	0.33	100	500	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 UJ	<0.0491 UJ	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	NS	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 U	<0.0491 U	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
3-Nitroaniline	99-09-2	NS	NS	NS	NS	mg/kg	<0.0946 U	<0.0957 U	<0.13 U	<0.139 U	<0.0865 U	<0.109 U	<0.128 U	<0.0954 U	<0.098 U	<0.129 U	<0.103 U	<0.266 U	<0.143 U	<0.115 U	<0.125 U	<0.111 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	NS	mg/kg	<0.0946 U	<0.0957 U	<0.13 U	<0.139 U	<0.0865 U	<0.109 U	<0.128 U	<0.0954 UJ	<0.098 UJ	<0.129 U	<0.103 U	<0.266 U	<0.143 U	<0.115 U	<0.125 U	<0.111 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	NS	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 U	<0.0491 U	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	NS	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 UJ	<0.0491 UJ	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
4-Chloroaniline	106-47-8	NS	NS	NS	NS	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 U	<0.0491 U	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	NS	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 U	<0.0491 U	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
4-Nitroaniline	100-01-6	NS	NS	NS	NS	mg/kg	<0.0946 U	<0.0957 U	<0.13 U	<0.139 U	<0.0865 U	<0.109 U	<0.128 U	<0.0954 U	<0.098 U	<0.129 U	<0.103 U	<0.266 U	<0.143 U	<0.115 U	<0.125 U	<0.111 U
4-Nitrophenol	100-02-7	NS	NS	NS	NS	mg/kg	<0.0946 U	<0.0957 U	<0.13 U	<0.139 U	<0.0865 U	<0.109 U	<0.128 U	<0.0954 UJ	<0.098 UJ	<0.129 U	<0.103 U	<0.266 U	<0.143 U	<0.115 U	<0.125 U	<0.111 U
Acenaphthene	83-32-9	20	98	100	500	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	0.0823 JD	0.0768 JD	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
Acenaphthylene	208-96-8	100	107	100	500	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 U	0.0909 JD	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
Acetophenone	98-86-2	NS	NS	NS	NS	mg/kg	0.0537 JD	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 U	<0.0491 U	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	NS	NS	NS	mg/kg	<0.189 U	<0.192 U	<0.261 U	<0.278 U	<0.173 U	<0.218 U	<0.257 U	<0.191 U	<0.196 U	<0.258 U	<0.206 U	<0.532 U	<0.287 U	<0.23 U	<0.251 U	<0.223 U
Anthracene	120-12-7	100	1000	100	500	mg/kg	0.0491 JD	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	0.183 D	0.218 D	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	0.407 D
Atrazine	1912-24-9	NS	NS	NS	NS	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 U	<0.0491 U	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
Benzaldehyde	100-52-7	NS	NS	NS	NS	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 U	<0.0491 U	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
Benzidine	92-87-5	NS	NS	NS	NS	mg/kg	<0.189 U	<0.192 U	<0.261 U	<0.278 U	<0.173 U	<0.218 U	<0.257 U	<0.191 U	<0.196 U	<0.258 U	<0.206 U	<0.532 U	<0.287 U	<0.23 U	<0.251 U	<0.223 U
Benzo(a)anthracene	56-55-3	**1**	1	1	5.6	mg/kg	0.208 D	0.0902 JD	<0.0653 U	<0.0695 U	0.357 D	<0.0545 U	<0.0644 U	0.436 D	0.562 D	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	0.323 D
Benzo(a)pyrene	50-32-8	**1**	22	1	1	mg/kg	0.265 D	0.104 D	<0.0653 U	<0.0695 U	0.537 D	<0.0545 U	<0.0644 U	0.414 D	0.382 D	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	0.271 D
Benzo(b)fluoranthene	205-99-2	**1**	1.7	1	5.6	mg/kg	0.26 D	0.109 D	<0.0653 U	<0.0695 U	0.358 D	<0.0545 U	<0.0644 U	0.371 D	0.296 D	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	0.254 D
Benzo(g,h,i)Perylene	191-24-2	100	1000	100	500	mg/kg	0.185 D	0.0635 JD	<0.0653 U	<0.0695 U	0.195 D	<0.0545 U	<0.0644 U	0.243 D	0.215 D	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	0.174 D
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	3.9	56	mg/kg	0.196 D	0.0734 JD	<0.0653 U	<0.0695 U	0.443 D	<0.0545 U	<0.0644 U	0.296 D	0.389 D	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	0.24 D
Benzoic Acid	65-85-0	NS	NS	NS	NS	mg/kg	0.149 D	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 U	<0.0491 U	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
Benzyl Alcohol	100-51-6	NS	NS	NS	NS	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 U	<0.0491 U	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	NS	mg/kg	0.133 D	0.0979 D	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 U	0.0736 JD	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	NS	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	0.0595 J	0.0885 J	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	0.879 D
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	NS	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 U	<0.0491 U	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	NS	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 U	<0.0491 U	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	NS	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 U	<0.0491 U	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	NS	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	16.2 D	9.93 D	<0.0646 U	<0.0517 U	0.876 D	<0.0719 U	<0.0577 U	<0.0628 U	<0.307 U
Caprolactam	105-60-2	NS	NS	NS	NS	mg/kg	<0.0946 U	<0.0957 U	<0.13 U	<0.139 U	<0.0865 U	<0.109 U	<0.128 U	<0.0954 U	<0.098 U	<0.129 U	<0.103 U	<0.266 U	<0.143 U	<0.115 U	<0.125 U	<0.111 U
Carbazole	86-74-8	NS	NS	NS	NS	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	0.0816 JD	<0.0491 U	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
Chrysene	218-01-9	**1**	1	3.9	56	mg/kg	0.216 D	0.0803 JD	<0.0653 U	<0.0695 U	0.268 D	<0.0545 U	<0.0644 U	0.444 D	0.478 D	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	0.36 D
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.33	0.56	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	0.0809 JD	<0.0545 U	<0.0644 U	0.0701 JD	0.0674 JD	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	0.064 JD
Dibenzofuran	132-64-9	7	210	59	350	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	0.0557 JD	0.0768 JD	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
Dibutyl phthalate	84-74-2	NS	NS	NS	NS	mg/kg	0.0771 JD	0.0612 JD	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 U	<0.0491 U	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
Diethyl phthalate	84-66-2	NS	NS	NS	NS	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 U	<0.0491 U	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
Dimethyl phthalate	131-11-3	NS	NS	NS	NS	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 U	<0.0491 U	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
Dioctyl phthalate	117-84-0	NS	NS	NS	NS	mg/kg	0.11 D	0.0673 JD	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 U	<0.0491 U	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
Diphenylamine	122-39-4	NS	NS	NS	NS	mg/kg	<0.0946 U	<0.0957 U	<0.13 U	<0.139 U	<0.0865 U	<0.109 U	<0.128 U	<0.0954 U	<0.098 U	<0.129 U	<0.103 U	<0.266 U	<0.143 U	<0.115 U	<0.125 U	<0.111 U
Fluoranthene	206-44-0	100	1000	100	500	mg/kg	0.425 J	0.141 J	<0.0653 U	<0.0695 U	0.435 D	<0.0545 U	<0.0644 U	1.03 D	1.16 D	<0.0646 U	<0.0517 U	0.155 JD	<0.0719 U	<0.0577 U	<0.0628 U	0.895 D
Fluorene	86-73-7	30	386	100	500	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	0.178 D	0.211 D	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	1.29 D
Hexachlorobenzene	118-74-1	0.33	3.2	1.2	6	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 U	<0.0491 U	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 U	<0.0491 U	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	NS	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 U	<0.0491 U	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
Hexachloroethane	67-72-1	NS	NS	NS	NS	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 U	<0.0491 U	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	0.5	5.6	mg/kg	0.215 D	0.078 JD	<0.0653 U	<0.0695 U	0.265 D	<0.0545 U	<0.0644 U	0.267 D	0.23 D	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	0.153 D
Isophorone	78-59-1	NS	NS	NS	NS	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 U	<0.0491 U	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
Naphthalene	91-20-3	12	12	100	500	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	2.2 D	2.37 D	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	1.55 D
Nitrobenzene	98-95-3	NS	NS	NS	NS	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 U	<0.0491 U	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
n-Nitrosodimethylamine	62-75-9	NS	NS	NS	NS	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 U	<0.0491 U	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	NS	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 U	<0.0491 U	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	NS	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 U	<0.0491 U	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	6.7	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 UJ	<0.0491 UJ	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
Phenanthrene	85-01-8	100	1000	100	500	mg/kg	0.204 D	0.0581 JD	<0.0653 U	<0.0695 U	0.0581 JD	<0.0545 U	<0.0644 U	0.822 D	0.971 D	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	2.43 D
Phenol	108-95-2	**0.33**	0.33	100	500	mg/kg	<0.0474 U	<0.048 U	<0.0653 U	<0.0695 U	<0.0434 U	<0.0545 U	<0.0644 U	<0.0478 UJ	<0.0491 UJ	<0.0646 U	<0.0517 U	<0.133 U	<0.0719 U	<0.0577 U	<0.0628 U	<0.0557 U
Pyrene	129-00-0	100	1000	100	500	mg/kg	0.333 J	0.12 J	<0.0653 U	<0.0695 U	0.347 D	<0.0545 U	<0.0644 U	0.914 D	0.934 D	<0.0646 U	<0.0517 U	0.185 JD	<0.0719 U	<0.0577 U	<0.0628 U	0.98 D
Pyridine	110-86-1	NS	NS	NS	NS	mg/kg	<0.189 U	<0.192 U	<0.261 U	<0.278 U	<0.173 U	<0.218 U	<0.257 U	<0.191 U	<0.196 U	<0.258 U	<0.206 U	<0.532 U	<0.287 U	<0.23 U	<0.251 U	<0.223 U

Notes provided on Page 16.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3C
Remedial Investigation Report
Soil Sample Analytical Results - Block 1824 (G)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	G-EP101	G-EP101	G-EP101	G-EP101	G-EP102	G-EP102	G-EP102	G-EP103	G-EP103	G-EP103	G-EP103	G-EP107	G-EP107	G-EP114	G-EP114	G-EP120
						Sample Name	G-EP101_0-2	DUP04_092221	G-EP101_5.5-7.5	G-EP101_10-12	G-EP102_0-2	G-EP102_5.5-7.5	G-EP102_10-12	G-EP103_0-2	DUP06_092321	G-EP103_5-7	G-EP103_10.5-12	G-EP107_6-8	G-EP107_10-12	G-EP114_6-8	G-EP114_10-12	G-EP120_7.5-9.5
						Sample Date	09/22/2021	09/22/2021	09/22/2021	09/22/2021	09/22/2021	09/22/2021	09/22/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/22/2021	09/22/2021	10/08/2021
						Sample Depth	0-2	0-2	5.5-7.5	10-12	0-2	5.5-7.5	10-12	0-2	0-2	5-7	10.5-12	6-8	10-12	6-8	10-12	7.5-9.5
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Petroleum Hydrocarbons																						
Total Petroleum Hydrocarbons	TPH	NS	NS	NS	NS	UNKNOWN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1 U
Pesticides																						
4,4'-DDD	72-54-8	**0.0033**	14	13	92	mg/kg	**0.0106 J**	<0.00192 UJ	<0.00257 U	<0.00272 U	<0.00173 U	<0.00216 U	<0.00252 UJ	<0.00189 U	<0.00195 U	<0.00257 UJ	<0.00203 U	NA	NA	NA	NA	NA
4,4'-DDE	72-55-9	**0.0033**	17	8.9	62	mg/kg	<0.00186 U	<0.00192 U	<0.00257 U	<0.00272 U	<0.00173 U	<0.00216 U	<0.00252 UJ	**0.00594 J**	<0.00195 UJ	<0.00257 UJ	<0.00203 U	NA	NA	NA	NA	NA
4,4'-DDT	50-29-3	**0.0033**	136	7.9	47	mg/kg	<0.00186 U	<0.00192 U	<0.00257 U	<0.00272 U	<0.00173 U	<0.00216 U	<0.00252 UJ	<0.00189 U	<0.00195 U	<0.00257 UJ	<0.00203 U	NA	NA	NA	NA	NA
Aldrin	309-00-2	0.005	0.19	0.097	0.68	mg/kg	<0.00186 U	<0.00192 U	<0.00257 U	<0.00272 U	<0.00173 U	<0.00216 U	<0.00252 UJ	<0.00189 U	<0.00195 U	<0.00257 UJ	<0.00203 U	NA	NA	NA	NA	NA
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	0.48	3.4	mg/kg	<0.00186 U	<0.00192 U	<0.00257 U	<0.00272 U	<0.00173 U	<0.00216 U	<0.00252 UJ	<0.00189 U	<0.00195 U	<0.00257 UJ	<0.00203 U	NA	NA	NA	NA	NA
Alpha Chlordane	5103-71-9	0.094	2.9	4.2	24	mg/kg	<0.00186 U	<0.00192 U	<0.00257 U	<0.00272 U	<0.00173 U	<0.00216 U	<0.00252 UJ	<0.00189 U	<0.00195 U	<0.00257 UJ	<0.00203 U	NA	NA	NA	NA	NA
Alpha Endosulfan	959-98-8	2.4	102	24	200	mg/kg	<0.00186 U	<0.00192 U	<0.00257 U	<0.00272 U	<0.00173 U	<0.00216 U	<0.00252 UJ	<0.00189 U	<0.00195 U	<0.00257 UJ	<0.00203 U	NA	NA	NA	NA	NA
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	0.36	3	mg/kg	<0.00186 U	<0.00192 U	<0.00257 U	<0.00272 U	<0.00173 U	<0.00216 U	<0.00252 UJ	<0.00189 U	<0.00195 U	<0.00257 UJ	<0.00203 U	NA	NA	NA	NA	NA
Beta Endosulfan	33213-65-9	2.4	102	24	200	mg/kg	<0.00186 U	<0.00192 U	<0.00257 U	<0.00272 U	<0.00173 U	<0.00216 U	<0.00252 UJ	<0.00189 U	<0.00195 U	<0.00257 UJ	<0.00203 U	NA	NA	NA	NA	NA
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	NS	mg/kg	<0.0372 U	<0.0384 U	<0.0514 U	<0.0543 U	<0.0346 U	<0.0432 U	<0.0505 UJ	<0.0379 U	<0.039 U	<0.0513 UJ	<0.0407 U	NA	NA	NA	NA	NA
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	100	500	mg/kg	<0.00186 U	<0.00192 U	<0.00257 U	<0.00272 U	<0.00173 U	<0.00216 U	<0.00252 UJ	<0.00189 U	<0.00195 U	<0.00257 UJ	<0.00203 U	NA	NA	NA	NA	NA
Dieldrin	60-57-1	0.005	0.1	0.2	1.4	mg/kg	<0.00186 U	<0.00192 U	<0.00257 U	<0.00272 U	<0.00173 U	<0.00216 U	<0.00252 UJ	<0.00189 U	<0.00195 U	<0.00257 UJ	<0.00203 U	NA	NA	NA	NA	NA
Endosulfan Sulfate	1031-07-8	2.4	1000	24	200	mg/kg	<0.00186 U	<0.00192 U	<0.00257 U	<0.00272 U	<0.00173 U	<0.00216 U	<0.00252 UJ	<0.00189 U	<0.00195 U	<0.00257 UJ	<0.00203 U	NA	NA	NA	NA	NA
Endrin	72-20-8	**0.014**	0.06	11	89	mg/kg	<0.00186 U	<0.00192 U	<0.00257 U	<0.00272 U	<0.00173 U	<0.00216 U	<0.00252 UJ	<0.00189 U	<0.00195 U	<0.00257 UJ	<0.00203 U	NA	NA	NA	NA	NA
Endrin Aldehyde	7421-93-4	NS	NS	NS	NS	mg/kg	<0.00186 U	<0.00192 U	<0.00257 U	<0.00272 U	<0.00173 U	<0.00216 U	<0.00252 UJ	<0.00189 U	<0.00195 U	<0.00257 UJ	<0.00203 U	NA	NA	NA	NA	NA
Endrin Ketone	53494-70-5	NS	NS	NS	NS	mg/kg	<0.00186 U	<0.00192 U	<0.00257 U	<0.00272 U	<0.00173 U	<0.00216 U	<0.00252 UJ	<0.00189 U	<0.00195 U	<0.00257 UJ	<0.00203 U	NA	NA	NA	NA	NA
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	1.3	9.2	mg/kg	<0.00186 U	<0.00192 U	<0.00257 U	<0.00272 U	<0.00173 U	<0.00216 U	<0.00252 UJ	<0.00189 U	<0.00195 U	<0.00257 UJ	<0.00203 U	NA	NA	NA	NA	NA
Gamma-Chlordane	5566-34-7	NS	NS	NS	NS	mg/kg	<0.00186 U	<0.00192 U	<0.00257 U	<0.00272 U	<0.00173 U	<0.00216 U	<0.00252 UJ	<0.00189 U	<0.00195 U	<0.00257 UJ	<0.00203 U	NA	NA	NA	NA	NA
Heptachlor	76-44-8	0.042	0.38	2.1	15	mg/kg	<0.00186 U	<0.00192 U	<0.00257 U	<0.00272 U	<0.00173 U	<0.00216 U	<0.00252 UJ	<0.00189 U	<0.00195 U	<0.00257 UJ	<0.00203 U	NA	NA	NA	NA	NA
Heptachlor Epoxide	1024-57-3	NS	NS	NS	NS	mg/kg	<0.00186 U	<0.00192 U	<0.00257 U	<0.00272 U	<0.00173 U	<0.00216 U	<0.00252 UJ	<0.00189 U	<0.00195 U	<0.00257 UJ	<0.00203 U	NA	NA	NA	NA	NA
Methoxychlor	72-43-5	NS	NS	NS	NS	mg/kg	<0.00186 U	<0.00192 U	<0.00257 U	<0.00272 U	<0.00173 U	<0.00216 U	<0.00252 UJ	<0.00189 U	<0.00195 U	<0.00257 UJ	<0.00203 U	NA	NA	NA	NA	NA
Toxaphene	8001-35-2	NS	NS	NS	NS	mg/kg	<0.186 U	<0.192 U	<0.257 U	<0.272 U	<0.173 U	<0.216 U	<0.252 UJ	<0.189 U	<0.195 U	<0.257 UJ	<0.203 U	NA	NA	NA	NA	NA
Herbicides																						
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	NS	mg/kg	<0.023 U	<0.023 U	<0.0313 U	<0.0335 U	<0.0208 U	<0.0261 U	<0.0311 U	<0.0229 U	<0.0238 U	<0.0312 U	<0.025 U	NA	NA	NA	NA	NA
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	NS	mg/kg	<0.023 U	<0.023 U	<0.0313 U	<0.0335 U	<0.0208 U	<0.0261 U	<0.0311 U	<0.0229 U	<0.0238 U	<0.0312 U	<0.025 U	NA	NA	NA	NA	NA
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	100	500	mg/kg	<0.023 U	<0.023 U	<0.0313 U	<0.0335 U	<0.0208 U	<0.0261 U	<0.0311 U	<0.0229 U	<0.0238 U	<0.0312 U	<0.025 U	NA	NA	NA	NA	NA
Polychlorinated Biphenyl																						
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	NS	mg/kg	<0.0188 U	<0.0194 U	<0.026 U	<0.0274 U	<0.0175 U	<0.0218 U	<0.0255 UJ	<0.0191 U	<0.0197 U	<0.0259 UJ	<0.0205 UJ	NA	NA	NA	NA	NA
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	NS	mg/kg	<0.0188 U	<0.0194 U	<0.026 U	<0.0274 U	<0.0175 U	<0.0218 U	<0.0255 UJ	<0.0191 U	<0.0197 U	<0.0259 UJ	<0.0205 UJ	NA	NA	NA	NA	NA
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	NS	mg/kg	<0.0188 U	<0.0194 U	<0.026 U	<0.0274 U	<0.0175 U	<0.0218 U	<0.0255 UJ	<0.0191 U	<0.0197 U	<0.0259 UJ	<0.0205 UJ	NA	NA	NA	NA	NA
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	NS	mg/kg	<0.0188 U	<0.0194 U	<0.026 U	<0.0274 U	<0.0175 U	<0.0218 U	<0.0255 UJ	<0.0191 U	<0.0197 U	<0.0259 UJ	<0.0205 UJ	NA	NA	NA	NA	NA
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	NS	mg/kg	<0.0188 U	<0.0194 U	<0.026 U	<0.0274 U	<0.0175 U	<0.0218 U	<0.0255 UJ	<0.0191 U	<0.0197 U	<0.0259 UJ	<0.0205 UJ	NA	NA	NA	NA	NA
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	NS	mg/kg	<0.0188 U	<0.0194 U	<0.026 U	<0.0274 U	<0.0175 U	<0.0218 U	<0.0255 UJ	<0.0191 U	<0.0197 U	<0.0259 UJ	<0.0205 UJ	NA	NA	NA	NA	NA
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	NS	mg/kg	<0.0188 U	0.0347	<0.026 U	<0.0274 U	<0.0175 U	0.086	<0.0255 UJ	0.0286	0.0269	<0.0259 UJ	<0.0205 UJ	NA	NA	NA	NA	NA
Total PCBs	1336-36-3	**0.1**	3.2	1	1	mg/kg	0.0777 J	0.0347 J	<0.026 U	<0.0274 U	<0.0175 U	0.086	<0.0255 UJ	0.0286	0.0269	<0.0259 UJ	<0.0205 UJ	NA	NA	NA	NA	NA
Metals																						
Aluminum	7429-90-5	NS	NS	NS	NS	mg/kg	7,480 J	5,020	12,300	20,800	9,150	4,260	18,800	6,380	5,460	3,690	11,500	NA	NA	NA	NA	NA
Antimony	7440-36-0	NS	NS	NS	NS	mg/kg	<2.9 UJ	<2.93 U	<3.95 U	<4.24 U	<2.65 U	<3.32 U	<3.93 U	6.47 J	<3 U	<3.93 U	<3.14 U	NA	NA	NA	NA	NA
Arsenic	7440-38-2	**13**	16	16	16	mg/kg	**17.2 J**	5.04 J	**22.9**	6.59	5.16	3.8	5.39	8.67 J	5.05 J	3.31	3.4	NA	NA	NA	NA	NA
Barium	7440-39-3	**350**	820	400	400	mg/kg	**1,420 J**	323 J	**1,180**	67.2	86	71.3	59.4	**574 J**	332 J	152	80	NA	NA	NA	NA	NA
Beryllium	7440-41-7	7.2	47	72	590	mg/kg	<0.059 UJ	0.444 J	0.287	<0.055 U	<0.053 U	<0.066 U	<0.079 U	<0.058 U	<0.06 U	0.142	<0.063 U	NA	NA	NA	NA	NA
Cadmium	7440-43-9	**2.5**	7.5	4.3	9.3	mg/kg	**2.99 J**	0.524 J	**20.9**	0.64	0.668	0.439	<0.471 U	**2.75**	**2.69**	0.524	<0.377 U	NA	NA	NA	NA	NA
Calcium	7440-70-2	NS	NS	NS	NS	mg/kg	67,100 J	6,750 J	7,690 B	4,240 B	30,300 B	27,400 B	4,500 B	41,600 J	22,300 J	2,940 B	4,870 B	NA	NA	NA	NA	NA
Chromium, Hexavalent	18540-29-9	1	19	110	400	mg/kg	<0.58 UJ	<0.585 U	<0.789 U	<0.848 U	<0.531 U	<0.663 U	<0.785 U	<0.577 UJ	<0.599 UJ	<0.785 U	<0.628 U	NA	NA	NA	NA	NA
Chromium, Total	7440-47-3	NS	NS	NS	NS	mg/kg	37.9 J	14.6 J	49	39.2	23.5	11.6	35.5	25.1 J	25.6	8.62	22.7	NA	NA	NA	NA	NA
Chromium, Trivalent	16065-83-1	**30**	NS	180	1500	mg/kg	**37.9 J**	14.6 J	**49**	**39.2**	23.5	11.6	**35.5**	25.1	25.6	8.62	22.7	NA	NA	NA	NA	NA
Cobalt	7440-48-4	NS	NS	NS	NS	mg/kg	8.68 J	6.88	15.3	13.4	8.84	4.93	12.6	9.06	6.32	8.1	8.11	NA	NA	NA	NA	NA
Copper	7440-50-8	**50**	1720	270	270	mg/kg	**160 J**	**52 J**	**296**	17.2	28	20.8	16	**162 J**	**112**	**148**	**245**	NA	NA	NA	NA	NA
Cyanide	57-12-5	27	40	27	27	mg/kg	<0.58 U	<0.585 U	<0.789 U	<0.848 U	<0.531 U	<0.663 U	<0.785 U	<0.577 U	<0.599 U	<0.785 U	<0.628 U	NA	NA	NA	NA	NA
Iron	7439-89-6	NS	NS	NS	NS	mg/kg	32,100 J	12,100 J	53,700	29,800	19,800	10,600	33,100	19,400 J	20,900	9,640	21,700	NA	NA	NA	NA	NA
Lead	7439-92-1	**63**	450	400	1000	mg/kg	**479 J**	**195 J**	**2,700**	21.2	55	46.6	18.4	**1,260 J**	**1,290**	**157**	**96**	NA	NA	NA	NA	NA
Magnesium	7439-95-4	NS	NS	NS	NS	mg/kg	25,700 J	942 J	1,350	7,520	3,400	1,700	8,010	3,840 J	4,120	431	5,580	NA	NA	NA	NA	NA
Manganese	7439-96-5	**1600**	2000	2000	10000	mg/kg	316 J	153 J	336	974	431	123	860	211	188	75	420	NA	NA	NA	NA	NA
Mercury	7439-97-6	**0.18**	0.73	0.81	2.8	mg/kg	0.102 J	0.177 J	0.16	0.0683	<0.0318 U	0.0922	0.131	**2.34 J**	**2.08**	**0.846**	<0.0377 U	NA	NA	NA	NA	NA
Nickel	7440-02-0	**30**	130	310	310	mg/kg	**32.1 J**	15.9 J	**59.5**	**33.9**	24.2	15.5	**35.1**	**35.2 J**	18.1 J	29	27.1	NA	NA	NA	NA	NA
Potassium	7440-09-7	NS	NS	NS	NS	mg/kg	590 J	319 J	704	3,800	1,350	477	4,170	785	630 B	447	3,070	NA	NA	NA	NA	NA
Selenium	7782-49-2	**3.9**	4	180	1500	mg/kg	<2.9 UJ	<2.93 U	<3.95 U	<4.24 U	<2.65 U	<3.32 U	<3.93 U	<2.89 UJ	<3 UJ	<3.93 U	<3.14 U	NA	NA	NA	NA	NA
Silver	7440-22-4	**2**	8.3	180	1500	mg/kg	<0.58 U	<0.585 U	<0.789 U	<0.848 U	<0.531 U	<0.663 U	<0.785 U	**4.37 J**	1.06 J	<0.785 U	<0.628 U	NA	NA	NA	NA	NA
Sodium	7440-23-5	NS	NS	NS	NS	mg/kg	207 J	147	397	2,120	264	137	2,840	268 J	255	235	1,340	NA	NA	NA	NA	NA
Thallium	7440-28-0	NS	NS	NS	NS	mg/kg	<2.9 U	<2.93 U	<3.95 U	<4.24 U	<2.65 U	<3.32 U	<3.93 U	<2.89 U	<3 U	<3.93 U	<3.14 U	NA	NA	NA	NA	NA
Vanadium	7440-62-2	NS	NS	NS	NS	mg/kg	34.5	20.7	47.8	51	28.8	12.1	45.7	23.9 J	22.9	15.4	30.7	NA	NA	NA	NA	NA
Zinc	7440-66-6	**109**	2480	10000	10000	mg/kg	**908 J**	**153 J**	**7,030 D**	87.4	**125**	83	78.3	**1,520 J**	**835 J**	**185**	107	NA	NA	NA	NA	NA
General Chemistry																						
Solids, Percent	SOLID	NS	NS	NS	NS	Percent	86.2	85.5	63.3	59	94.2	75.4	63.7	86.6	83.4	63.7	79.6	62.3	56.8	70.4	66.2	74.8
Perfluorooctanoic acids																						
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA	2991-50-6	NS	NS	NS	NS	mg/kg	<0.000272 U	<0.000256 U	<0.000382 U	<0.000416 U	<0.000255 U	<0.000278 U	<0.000377 U	0.00093 J	0.00186 J	<0.000388 U	<0.000314 U	NA	NA	NA	NA	NA
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOS	2355-31-9	NS	NS	NS	NS	mg/kg	<0.000272 U	<0.000256 U	<0.000382 U	<0.000416 U	<0.000255 U	<0.000278 U	<0.000377 U	0.000769 J	0.00506 J	<0.000388 U	<0.000314 U	NA	NA	NA	NA	NA
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	NS	mg/kg	<0.000272 U	<0.000256 U	<0.000382 U	<0.000416 U	<0.000255 U	<0.000278 U	<0.000377 U	<0.000254 U	<0.000266 U	<0.000388 U	<0.000314 U	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	NS	mg/kg	0.000293 J	0.00118 J	0.000498	<0.000416 U	<0.000255 U	0.00184	<0.000377 U	<0.000254 UJ	0.000873 J	<0.000388 U	<0.000314 U	NA	NA	NA	NA	NA
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	NS	mg/kg	<0.000272 U	<0.000256 U	<0.000382 U	<0.000416 U	<0.000255 U	<0.000278 U	<0.000377 U	<0.000254 U	<0.000266 U	<0.000388 U	<0.000314 U	NA	NA	NA	NA	NA
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	NS	mg/kg	<0.000272 U	<0.000256 U	<0.000382 U	<0.000416 U	<0.000255 U	<0.000278 U	<0.000377 U	<0.000254 U	<0.000266 U	<0.000388 U	<0.000314 U	NA	NA	NA	NA	NA
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	NS	mg/kg	<0.000272 U	<0.000256 U	<0.000382 U	<0.000416 U	<0.000255 U	<0.000278 U	<0.000377 U	<0.000254 U	<0.000266 U	<0.000388 U	<0.000314 U	NA	NA	NA	NA	NA
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	NS	mg/kg	<0.000272 U	<0.000256 U	<0.000382 U	<0.000416 U	<0.000255 U	<0.000278 U	<0.000377 U	<0.000254 U	<0.000266 U	<0.000388 U	<0.000314 U	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	NS	mg/kg	<0.000272 U	<0.000256 U	<0.000382 U	<0.000416 U	<0.000255 U	<0.000278 U	<0.000377 U	<0.000254 U	<0.000266 U	<0.000388 U	<0.000314 U	NA	NA	NA	NA	NA
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	NS	mg/kg	<0.000272 U	<0.000256 U	<0.000382 U	<0.000416 U	<0.000255 U	<0.000278 U	<0.000377 U	<0.000254 U	<0.000266 U	<0.000388 U	<0.000314 U	NA	NA	NA	NA	NA
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	NS	mg/kg	<0.000272 U	<0.000256 U	<0.000382 U	<0.000416 U	<0.000255 U	<0.000278 U	<0.000377 U	<0.000254 U	<0.000266 U	<0.000388 U	<0.000314 U	NA	NA	NA	NA	NA
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	NS	mg/kg	<0.000272 U	<0.000256 U	<0.000382 U	<0.000416 U	<0.000255 U	<0.000278 U	<0.000377 U	<0.000254 U	<0.000266 U	<0.000388 U	<0.000314 U	NA	NA	NA	NA	NA
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	NS	mg/kg	<0.000272 U	<0.000256 U	<0.000382 U	<0.000416 U	<0.000255 U	<0.000278 U	<0.000377 U	<0.000254 U	<0.000266 U	<0.000388 U	<0.000314 U	NA	NA	NA	NA	NA
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.044	0.44	mg/kg	**0.00203 J**	**0.00116 J**	<0.000382 U	<0.000416 U	<0.000255 U	0.00045	<0.000377 U	**0.001 J**	**0.00169 J**	<0.000388 U	<0.000314 U	NA	NA	NA	NA	NA
Perfluorooctanoic Acid (PFOA)	335-67-1	0.00066	0.0011	0.033	0.5	mg/kg	<0.000272 U	<0.000256 U	<0.000382 U	<0.000416 U	<0.000255 U	<0.000278 U	<0.000377 U	0.000464	0.000404	<0.000388 U	<0.000314 U	NA	NA	NA	NA	NA
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	NS	mg/kg	<0.000272 U	<0.000256 U	<0.000382 U	<0.000416 U	<0.000255 U	<0.000278 U	<0.000377 U	<0.000254 U	<0.000266 U	<0.000388 U	<0.000314 U	NA	NA	NA	NA	NA
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	NS	mg/kg	<0.000272 U	<0.000256 U	<0.000382 U	<0.000416 U	<0.000255 U	<0.000278 U	<0.000377 U	<0.000254 U	<0.000266 U	<0.000388 U	<0.000314 U	NA	NA	NA	NA	NA
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	NS	mg/kg	<0.000272 U	<0.000256 U	<0.000382 U	<0.000416 U	<0.000255 U	<0.000278 U	<0.000377 U	<0.000254 U	<0.000266 U	<0.000388 U	<0.000314 U	NA	NA	NA	NA	NA
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	NS	mg/kg	<0.000272 U	<0.000256 U	<0.000382 U	<0.000416 U	<0.000255 U	<0.000278 U	<0.000377 U	<0.000254 U	<0.000266 U	<0.000388 U	<0.000314 U	NA	NA	NA	NA	NA
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FT	39108-34-4	NS	NS	NS	NS	mg/kg	<0.000272 U	<0.000256 U	<0.000382 U	<0.000416 U	<0.000255 U	<0.000278 UJ	<0.000377 U	<0.000254 U	<0.000266 U	<0.000388 U	<0.000314 U	NA	NA	NA	NA	NA
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FT	27619-97-2	NS	NS	NS	NS	mg/kg	<0.000272 UJ	<0.000256 UJ	<0.000382 U	<0.000416 UJ	<0.000255 UJ	<0.000278 UJ	<0.000377 UJ	<0.000254 U	<0.000266 U	<0.000388 U	<0.000314 U	NA	NA	NA	NA	NA

Notes provided on Page 16.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3C
Remedial Investigation Report
Soil Sample Analytical Results - Block 1824 (G)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	G-EP120	G-EP120	G-EP120	G-EP122	G-EP122	G-EP122	G-SB101	G-SB101	G-SB101	G-SB102	G-SB102	G-SB102	G-SB103	G-SB103	G-SB103	G-SB104	G-SB104
						Sample Name	DUP19_100821	G-EP120_10-12	DUP20_100821	G-EP122_0-2	G-EP122_5-7	G-EP122_10-12	G-SB101_0-2	G-SB101_5-7	G-SB101_11-13	G-SB102_0-2	G-SB102_0-2	G-SB102_6-8	G-SB102_10-12	G-SB103_0-2	G-SB103_9-11	G-SB103_11-12	G-SB104_0-2	G-SB104_6-8
						Sample Date	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/30/2021	09/30/2021	09/30/2021	09/30/2021	09/30/2021
						Sample Depth	7.5-9.5	10-12	10-12	0-2	5-7	10-12	0-2	5-7	11-13	0-2	0-2	6-8	10-12	0-2	9-11	11-12	0-2	6-8
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																							
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	NS	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	500	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	NS	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	NS	NS	NS	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	NS	mg/kg	<0.26 UJ	<0.003 U	<0.0035 UJ	<0.002 UJ	<0.0021 UJ	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
1,1-Dichloroethane	75-34-3	0.27	0.27	26	240	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
1,1-Dichloroethene	75-35-4	0.33	0.33	100	500	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	NS	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	NS	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	NS	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
1,2,4-Trimethylbenzene	95-63-6	**3.6**	3.6	52	190	mg/kg	0.72 D	0.0031 J	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	**3.8 D**	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	NS	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	NS	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	500	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
1,2-Dichloroethane	107-06-2	0.02	0.02	3.1	30	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	NS	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	**8.4**	8.4	52	190	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	0.25 JD	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	280	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	130	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<5.2 U	<0.061 U	<0.07 U	<0.04 U	<0.043 U	<0.072 U	<0.063 U	<0.067 U	<0.083 U	<4.5 U	<0.054 U	<0.064 U	<0.038 U	<0.066 U	<0.063 U	<0.043 U	<4.6 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	NS	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
Acetone	67-64-1	**0.05**	0.05	100	500	mg/kg	<0.52 U	<0.028 U	0.024	0.023	0.015	0.042	<0.0063 U	**0.087**	0.032	<0.45 U	0.032	0.041	0.04	**0.052**	0.041	0.027	<0.46 U
Acrolein	107-02-8	NS	NS	NS	NS	mg/kg	<0.52 U	<0.0061 U	<0.007 U	<0.004 U	<0.0043 U	<0.0072 U	<0.0063 U	<0.0067 U	<0.0083 U	<0.45 U	<0.0054 U	0.0071 J	<0.0038 U	<0.0066 U	<0.0063 U	<0.0043 U	<0.46 U
Acrylonitrile	107-13-1	NS	NS	NS	NS	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
Benzene	71-43-2	**0.06**	0.06	4.8	44	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
Bromochloromethane	74-97-5	NS	NS	NS	NS	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
Bromodichloromethane	75-27-4	NS	NS	NS	NS	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
Bromoform	75-25-2	NS	NS	NS	NS	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
Bromomethane	74-83-9	NS	NS	NS	NS	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
Carbon Disulfide	75-15-0	NS	NS	NS	NS	mg/kg	<0.26 U	0.0038 J	0.0047 J	0.0031 J	0.022	0.022	<0.0031 U	<0.0034 U	0.007 J	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
Carbon Tetrachloride	56-23-5	0.76	0.76	2.4	22	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
Chlorobenzene	108-90-7	1.1	1.1	100	500	mg/kg	<0.26 UJ	<0.003 U	<0.0035 UJ	<0.002 UJ	<0.0021 UJ	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
Chloroethane	75-00-3	NS	NS	NS	NS	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
Chloroform	67-66-3	0.37	0.37	49	350	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
Chloromethane	74-87-3	NS	NS	NS	NS	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	100	500	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	NS	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
Cyclohexane	110-82-7	NS	NS	NS	NS	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	0.0041 J	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
Dibromochloromethane	124-48-1	NS	NS	NS	NS	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
Dibromomethane	74-95-3	NS	NS	NS	NS	mg/kg	<0.26 UJ	<0.003 U	<0.0035 UJ	<0.002 UJ	<0.0021 UJ	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	NS	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
Ethylbenzene	100-41-4	**1**	1	41	390	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	NS	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
M,P-Xylene	179601-23-1	NS	NS	NS	NS	mg/kg	<0.52 U	<0.0061 U	<0.007 U	<0.004 U	<0.0043 U	<0.0072 U	<0.0063 U	<0.0067 U	<0.0083 U	0.53 JD	<0.0054 U	<0.0064 U	<0.0038 U	<0.0066 U	<0.0063 U	<0.0043 U	<0.46 U
Methyl Acetate	79-20-9	NS	NS	NS	NS	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	0.12	0.12	100	500	mg/kg	<0.26 U	0.0048 J	0.0049 J	0.0036 J	0.004 J	0.0097	<0.0031 U	0.018	<0.0041 U	<0.22 U	0.0069	0.0097	0.013	0.0099	0.0073	<0.0022 U	<0.23 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	NS	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
Methylcyclohexane	108-87-2	NS	NS	NS	NS	mg/kg	0.53 D	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
Methylene Chloride	75-09-2	0.05	0.05	100	500	mg/kg	<0.52 U	<0.0061 U	<0.007 U	0.0052 J	0.0069 J	0.0085 J	0.014 J	<0.0067 U	<0.0083 U	<0.45 U	<0.0054 U	<0.0064 U	<0.0038 U	<0.0066 U	<0.0063 U	<0.0043 U	<0.46 U
n-Butylbenzene	104-51-8	12	12	100	500	mg/kg	0.51 JD	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	0.66 D	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
n-Propylbenzene	103-65-1	**3.9**	3.9	100	500	mg/kg	0.28 JD	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	0.29 JD	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	NS	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	0.33 JD	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	NS	NS	mg/kg	0.27 JD	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	0.31 JD	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
Sec-Butylbenzene	135-98-8	11	11	100	500	mg/kg	0.51 JD	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	0.23 JD	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
Styrene	100-42-5	NS	NS	NS	NS	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 UJ	<0.0033 UJ	<0.0031 UJ	<0.0022 UJ	<0.23 UJ
T-Butylbenzene	98-06-6	5.9	5.9	100	500	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
Tert-Butyl Alcohol	75-65-0	NS	NS	NS	NS	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 UJ	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	100	500	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	19	150	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
Toluene	108-88-3	0.7	0.7	100	500	mg/kg	<0.26 U	<0.003 U	<0.0035 U	0.0076	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
Total Xylenes	1330-20-7	**0.26**	1.6	100	500	mg/kg	<0.78 U	<0.0091 U	<0.01 U	<0.006 U	<0.0064 U	<0.011 U	<0.0094 U	<0.01 U	<0.012 U	**0.86 JD**	<0.008 U	<0.0096 U	<0.0057 U	<0.01 U	<0.0094 U	<0.0065 U	<0.69 U
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	100	500	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	NS	mg/kg	<0.26 UJ	<0.003 UJ	<0.0035 UJ	<0.002 UJ	<0.0021 UJ	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
Trichloroethene (TCE)	79-01-6	0.47	0.47	21	200	mg/kg	<0.26 U	<0.003 U	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	NS	mg/kg	<0.26 U	<0.003 UJ	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U
Vinyl Chloride	75-01-4	0.02	0.02	0.9	13	mg/kg	<0.26 U	<0.003 UJ	<0.0035 U	<0.002 U	<0.0021 U	<0.0036 U	<0.0031 U	<0.0034 U	<0.0041 U	<0.22 U	<0.0027 U	<0.0032 U	<0.0019 U	<0.0033 U	<0.0031 U	<0.0022 U	<0.23 U

Notes provided on Page 16.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3C
Remedial Investigation Report
Soil Sample Analytical Results - Block 1824 (G)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	G-EP120	G-EP120	G-EP120	G-EP122	G-EP122	G-EP122	G-SB101	G-SB101	G-SB101	G-SB102	G-SB102	G-SB102	G-SB103	G-SB103	G-SB103	G-SB104	G-SB104
						Sample Name	DUP19_100821	G-EP120_10-12	DUP20_100821	G-EP122_0-2	G-EP122_5-7	G-EP122_10-12	G-SB101_0-2	G-SB101_5-7	G-SB101_11-13	G-SB102_0-2	G-SB102_6-8	G-SB102_10-12	G-SB103_0-2	G-SB103_9-11	G-SB103_11-12	G-SB104_0-2	G-SB104_6-8
						Sample Date	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/30/2021	09/30/2021	09/30/2021	09/30/2021	09/30/2021
						Sample Depth	7.5-9.5	10-12	10-12	0-2	5-7	10-12	0-2	5-7	11-13	0-2	6-8	10-12	0-2	9-11	11-12	0-2	6-8
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																							
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	NS	mg/kg	<0.107 U	<0.11 U	<0.121 U	<0.0942 U	<0.0958 U	<0.133 U	<0.095 U	<0.114 U	<0.146 U	<0.0867 U	<0.106 U	<0.107 U	<0.0885 U	<0.1 U	<0.121 U	<0.0898 U	<0.0995 U
1,2-Diphenylhydrazine	122-66-7	NS	NS	NS	NS	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	NA	NA	NA	<0.0189 U	<0.0183 U	<0.0185 U	<0.0194 U	<0.0194 U	<0.0194 U	<0.019 U	<0.0192 U	<0.0187 U	<0.0187 U	<0.0196 U	<0.0194 U	<0.0189 U	<0.0194 U
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	NS	mg/kg	<0.107 U	<0.11 U	<0.121 U	<0.0942 U	<0.0958 U	<0.133 U	<0.095 U	<0.114 U	<0.146 U	<0.0867 U	<0.106 U	<0.107 U	<0.0885 U	<0.1 U	<0.121 U	<0.0898 U	<0.0995 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	NS	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	NS	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	NS	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	NS	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	NS	mg/kg	<0.107 U	<0.11 U	<0.121 U	<0.0942 U	<0.0958 U	<0.133 U	<0.095 U	<0.114 U	<0.146 U	<0.0867 U	<0.106 U	<0.107 U	<0.0885 U	<0.1 U	<0.121 U	<0.0898 U	<0.0995 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	NS	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	NS	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	NS	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
2-Chlorophenol	95-57-8	NS	NS	NS	NS	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	NS	mg/kg	10.1 D	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	1.15 D	0.206 D	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	500	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
2-Nitroaniline	88-74-4	NS	NS	NS	NS	mg/kg	<0.107 U	<0.11 U	<0.121 U	<0.0942 U	<0.0958 U	<0.133 U	<0.095 U	<0.114 U	<0.146 U	<0.0867 U	<0.106 U	<0.107 U	<0.0885 U	<0.1 U	<0.121 U	<0.0898 U	<0.0995 U
2-Nitrophenol	88-75-5	NS	NS	NS	NS	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	0.33	0.33	100	500	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	NS	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
3-Nitroaniline	99-09-2	NS	NS	NS	NS	mg/kg	<0.107 U	<0.11 U	<0.121 U	<0.0942 U	<0.0958 U	<0.133 U	<0.095 U	<0.114 U	<0.146 U	<0.0867 U	<0.106 U	<0.107 U	<0.0885 U	<0.1 U	<0.121 U	<0.0898 U	<0.0995 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	NS	mg/kg	<0.107 U	<0.11 U	<0.121 U	<0.0942 U	<0.0958 U	<0.133 U	<0.095 U	<0.114 U	<0.146 U	<0.0867 U	<0.106 U	<0.107 U	<0.0885 U	<0.1 U	<0.121 U	<0.0898 U	<0.0995 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	NS	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	NS	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
4-Chloroaniline	106-47-8	NS	NS	NS	NS	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	NS	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
4-Nitroaniline	100-01-6	NS	NS	NS	NS	mg/kg	<0.107 U	<0.11 U	<0.121 U	<0.0942 U	<0.0958 U	<0.133 U	<0.095 U	<0.114 U	<0.146 U	<0.0867 U	<0.106 U	<0.107 U	<0.0885 U	<0.1 U	<0.121 U	<0.0898 U	<0.0995 U
4-Nitrophenol	100-02-7	NS	NS	NS	NS	mg/kg	<0.107 U	<0.11 U	<0.121 U	<0.0942 U	<0.0958 U	<0.133 U	<0.095 U	<0.114 U	<0.146 U	<0.0867 U	<0.106 U	<0.107 U	<0.0885 U	<0.1 U	<0.121 U	<0.0898 U	<0.0995 U
Acenaphthene	83-32-9	20	98	100	500	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	0.367 D
Acenaphthylene	208-96-8	100	107	100	500	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	0.0444 JD	0.0776 JD	<0.0538 U	0.275 D	<0.0502 U	<0.0606 U	<0.045 U	0.0875 JD
Acetophenone	98-86-2	NS	NS	NS	NS	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	NS	NS	NS	mg/kg	<0.215 U	<0.221 U	<0.242 U	<0.189 U	<0.192 U	<0.266 U	<0.19 U	<0.229 U	<0.292 U	<0.174 U	<0.211 U	<0.215 U	<0.177 U	<0.201 U	<0.242 U	<0.18 U	<0.199 U
Anthracene	120-12-7	100	1000	100	500	mg/kg	0.41 D	0.0626 JD	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	0.0881 D	0.0937 JD	<0.0538 U	0.271 D	<0.0502 U	<0.0606 U	<0.045 U	1.61 D
Atrazine	1912-24-9	NS	NS	NS	NS	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
Benzaldehyde	100-52-7	NS	NS	NS	NS	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
Benzidine	92-87-5	NS	NS	NS	NS	mg/kg	<0.215 U	<0.221 U	<0.242 U	<0.189 U	<0.192 U	<0.266 U	<0.19 U	<0.229 U	<0.292 U	<0.174 U	<0.211 U	<0.215 U	<0.177 U	<0.201 U	<0.242 U	<0.18 U	<0.199 U
Benzo(a)anthracene	56-55-3	**1**	1	1	5.6	mg/kg	0.33 D	0.12 D	0.0628 JD	0.0602 JD	<0.048 U	<0.0667 U	0.213 D	<0.0573 U	<0.0732 U	0.086 JD	0.182 D	<0.0538 U	0.872 D	<0.0502 U	<0.0606 U	0.0603 JD	**3.35 D**
Benzo(a)pyrene	50-32-8	**1**	22	1	1	mg/kg	0.252 D	0.1 JD	0.0705 JD	0.055 JD	<0.048 U	<0.0667 U	0.216 D	<0.0573 U	<0.0732 U	<0.0435 U	0.192 D	<0.0538 U	0.937 D	0.0537 JD	<0.0606 U	<0.045 U	**2.5 D**
Benzo(b)fluoranthene	205-99-2	**1**	1.7	1	5.6	mg/kg	0.223 D	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	0.231 D	<0.0573 U	<0.0732 U	0.0673 JD	0.219 D	<0.0538 U	0.745 D	<0.0502 U	<0.0606 U	<0.045 U	**1.85 D**
Benzo(g,h,i)Perylene	191-24-2	100	1000	100	500	mg/kg	0.135 D	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	0.163 D	<0.0573 U	<0.0732 U	0.07 JD	0.173 D	<0.0538 U	0.526 D	<0.0502 U	<0.0606 U	<0.045 U	1.07 D
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	3.9	56	mg/kg	0.238 D	0.0555 JD	<0.0605 U	0.0482 JD	<0.048 U	<0.0667 U	0.197 D	<0.0573 U	<0.0732 U	0.0624 JD	0.17 D	<0.0538 U	0.664 D	<0.0502 U	<0.0606 U	<0.045 U	**1.7 D**
Benzoic Acid	65-85-0	NS	NS	NS	NS	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
Benzyl Alcohol	100-51-6	NS	NS	NS	NS	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	NS	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	NS	mg/kg	0.842 D	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	0.0783 J	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	NS	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	NS	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	NS	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	NS	mg/kg	<0.209 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	0.0775 JD	<0.0573 U	<0.0732 U	1.42 D	0.29 D	<0.0538 U	0.0722 JD	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
Caprolactam	105-60-2	NS	NS	NS	NS	mg/kg	<0.107 U	<0.11 U	<0.121 U	<0.0942 U	<0.0958 U	<0.133 U	<0.095 U	<0.114 U	<0.146 U	<0.0867 U	<0.106 U	<0.107 U	<0.0885 U	<0.1 U	<0.121 U	<0.0898 U	<0.0995 U
Carbazole	86-74-8	NS	NS	NS	NS	mg/kg	0.154 D	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	0.182 D
Chrysene	218-01-9	**1**	1	3.9	56	mg/kg	0.36 D	0.1 JD	0.0628 JD	0.0535 JD	<0.048 U	<0.0667 U	0.264 D	<0.0573 U	<0.0732 U	0.161 D	0.231 D	<0.0538 U	0.738 D	<0.0502 U	<0.0606 U	0.0531 JD	**2.59 D**
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.33	0.56	mg/kg	0.0584 JD	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	0.06 JD	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	0.159 D	<0.0502 U	<0.0606 U	<0.045 U	**0.469 D**
Dibenzofuran	132-64-9	7	210	59	350	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	0.11 D
Dibutyl phthalate	84-74-2	NS	NS	NS	NS	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
Diethyl phthalate	84-66-2	NS	NS	NS	NS	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
Dimethyl phthalate	131-11-3	NS	NS	NS	NS	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
Dioctyl phthalate	117-84-0	NS	NS	NS	NS	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
Diphenylamine	122-39-4	NS	NS	NS	NS	mg/kg	<0.107 U	<0.11 U	<0.121 U	<0.0942 U	<0.0958 U	<0.133 U	<0.095 U	<0.114 U	<0.146 U	<0.0867 U	<0.106 U	<0.107 U	<0.0885 U	<0.1 U	<0.121 U	<0.0898 U	<0.0995 U
Fluoranthene	206-44-0	100	1000	100	500	mg/kg	0.985 D	0.0899 JD	<0.0605 U	0.108 D	<0.048 U	<0.0667 U	0.447 D	<0.0573 U	<0.0732 U	0.273 D	0.373 D	<0.0538 U	1.39 D	0.0561 JD	<0.0606 U	0.105 D	7.42 D
Fluorene	86-73-7	30	386	100	500	mg/kg	1.27 D	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	0.117 D	0.0768 JD	<0.0538 U	0.0955 D	<0.0502 U	<0.0606 U	<0.045 U	0.375 D
Hexachlorobenzene	118-74-1	0.33	3.2	1.2	6	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	NS	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
Hexachloroethane	67-72-1	NS	NS	NS	NS	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	0.5	5.6	mg/kg	0.119 D	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	0.147 D	<0.0573 U	<0.0732 U	<0.0435 U	0.16 D	<0.0538 U	**0.697 D**	0.0657 JD	<0.0606 U	0.0488 JD	**1.64 D**
Isophorone	78-59-1	NS	NS	NS	NS	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
Naphthalene	91-20-3	12	12	100	500	mg/kg	1.63 D	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	0.492 D	0.211 D	<0.0538 U	0.0594 JD	<0.0502 U	<0.0606 U	<0.045 U	0.066 JD
Nitrobenzene	98-95-3	NS	NS	NS	NS	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
n-Nitrosodimethylamine	62-75-9	NS	NS	NS	NS	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	NS	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	NS	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	6.7	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
Phenanthrene	85-01-8	100	1000	100	500	mg/kg	2.5 D	<0.0552 U	<0.0605 U	0.064 JD	<0.048 U	<0.0667 U	0.113 D	<0.0573 U	<0.0732 U	0.53 D	0.396 D	<0.0538 U	0.536 D	<0.0502 U	<0.0606 U	<0.045 U	4 D
Phenol	108-95-2	**0.33**	0.33	100	500	mg/kg	<0.0538 U	<0.0552 U	<0.0605 U	<0.0472 U	<0.048 U	<0.0667 U	<0.0476 U	<0.0573 U	<0.0732 U	<0.0435 U	<0.0529 U	<0.0538 U	<0.0444 U	<0.0502 U	<0.0606 U	<0.045 U	<0.0499 U
Pyrene	129-00-0	100	1000	100	500	mg/kg	1.04 D	0.184 D	0.0734 JD	0.131 D	<0.048 U	<0.0667 U	0.429 D	<0.0573 U	<0.0732 U	0.279 D	0.427 D	<0.0538 U	1.76 D	0.0593 JD	<0.0606 U	0.104 D	5.27 D
Pyridine	110-86-1	NS	NS	NS	NS	mg/kg	<0.215 U	<0.221 U	<0.242 U	<0.189 U	<0.192 U	<0.266 U	<0.19 U	<0.229 U	<0.292 U	<0.174 U	<0.211 U	<0.215 U	<0.177 U	<0.201 U	<0.242 U	<0.18 U	<0.199 U

Notes provided on Page 16.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3C
Remedial Investigation Report
Soil Sample Analytical Results - Block 1824 (G)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	G-EP120	G-EP120	G-EP120	G-EP122	G-EP122	G-EP122	G-SB101	G-SB101	G-SB101	G-SB102	G-SB102	G-SB102	G-SB103	G-SB103	G-SB103	G-SB104	G-SB104
						Sample Name	DUP19_100821	G-EP120_10-12	DUP20_100821	G-EP122_0-2	G-EP122_5-7	G-EP122_10-12	G-SB101_0-2	G-SB101_5-7	G-SB101_11-13	G-SB102_0-2	G-SB102_6-8	G-SB102_10-12	G-SB103_0-2	G-SB103_9-11	G-SB103_11-12	G-SB104_0-2	G-SB104_6-8
						Sample Date	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/30/2021	09/30/2021	09/30/2021	09/30/2021	09/30/2021
						Sample Depth	7.5-9.5	10-12	10-12	0-2	5-7	10-12	0-2	5-7	11-13	0-2	6-8	10-12	0-2	9-11	11-12	0-2	6-8
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Petroleum Hydrocarbons																							
Total Petroleum Hydrocarbons	TPH	NS	NS	NS	NS	UNKNOWN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides																							
4,4'-DDD	72-54-8	**0.0033**	14	13	92	mg/kg	NA	NA	NA	<0.00183 UJ	**0.0267 D**	<0.00267 UJ	<0.00186 U	<0.00224 U	<0.00289 U	**0.00603 D**	**0.00873 D**	<0.00214 U	<0.00175 U	<0.00198 U	<0.00239 U	<0.00178 U	<0.00197 U
4,4'-DDE	72-55-9	**0.0033**	17	8.9	62	mg/kg	NA	NA	NA	<0.00183 UJ	<0.0019 U	<0.00267 UJ	<0.00186 U	<0.00224 U	<0.00289 U	**0.0118 D**	**0.00704 D**	<0.00214 U	<0.00175 U	<0.00198 U	<0.00239 U	<0.00178 U	<0.00197 U
4,4'-DDT	50-29-3	**0.0033**	136	7.9	47	mg/kg	NA	NA	NA	<0.00183 UJ	<0.0019 U	<0.00267 UJ	<0.00186 U	<0.00224 U	<0.00289 U	**0.0269 D**	<0.00211 U	<0.00214 U	<0.00175 U	<0.00198 U	<0.00239 U	<0.00178 U	<0.00197 U
Aldrin	309-00-2	0.005	0.19	0.097	0.68	mg/kg	NA	NA	NA	<0.00183 UJ	<0.0019 U	<0.00267 UJ	<0.00186 U	<0.00224 U	<0.00289 U	<0.00169 U	<0.00211 U	<0.00214 U	<0.00175 U	<0.00198 U	<0.00239 U	<0.00178 U	<0.00197 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	0.48	3.4	mg/kg	NA	NA	NA	<0.00183 UJ	<0.0019 U	<0.00267 UJ	<0.00186 U	<0.00224 U	<0.00289 U	<0.00169 U	<0.00211 U	<0.00214 U	<0.00175 U	<0.00198 U	<0.00239 U	<0.00178 U	<0.00197 U
Alpha Chlordane	5103-71-9	0.094	2.9	4.2	24	mg/kg	NA	NA	NA	<0.00183 UJ	<0.0019 U	<0.00267 UJ	<0.00186 U	<0.00224 U	<0.00289 U	<0.00169 U	<0.00211 U	<0.00214 U	<0.00175 U	<0.00198 U	<0.00239 U	<0.00178 U	<0.00197 U
Alpha Endosulfan	959-98-8	2.4	102	24	200	mg/kg	NA	NA	NA	<0.00183 UJ	<0.0019 U	<0.00267 UJ	<0.00186 U	<0.00224 U	<0.00289 U	<0.00169 U	<0.00211 U	<0.00214 U	<0.00175 U	<0.00198 U	<0.00239 U	<0.00178 U	<0.00197 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	0.36	3	mg/kg	NA	NA	NA	<0.00183 UJ	<0.0019 U	<0.00267 UJ	<0.00186 U	<0.00224 U	<0.00289 U	<0.00169 U	<0.00211 U	<0.00214 U	<0.00175 U	<0.00198 U	<0.00239 U	<0.00178 U	<0.00197 U
Beta Endosulfan	33213-65-9	2.4	102	24	200	mg/kg	NA	NA	NA	<0.00183 UJ	<0.0019 U	<0.00267 UJ	<0.00186 U	<0.00224 U	<0.00289 U	<0.00169 U	<0.00211 U	<0.00214 U	<0.00175 U	<0.00198 U	<0.00239 U	<0.00178 U	<0.00197 U
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.0365 UJ	<0.0379 U	<0.0534 UJ	<0.0372 U	<0.0448 U	<0.0578 U	<0.0338 U	<0.0422 U	<0.0427 U	<0.035 U	<0.0396 U	<0.0478 U	<0.0355 U	<0.0394 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	100	500	mg/kg	NA	NA	NA	<0.00183 UJ	<0.0019 U	<0.00267 UJ	<0.00186 U	<0.00224 U	<0.00289 U	<0.00169 U	<0.00211 U	<0.00214 U	<0.00175 U	<0.00198 U	<0.00239 U	<0.00178 U	<0.00197 U
Dieldrin	60-57-1	0.005	0.1	0.2	1.4	mg/kg	NA	NA	NA	<0.00183 UJ	<0.0019 U	<0.00267 UJ	<0.00186 U	<0.00224 U	<0.00289 U	<0.00169 U	<0.00211 U	<0.00214 U	<0.00175 U	<0.00198 U	<0.00239 U	<0.00178 U	<0.00197 U
Endosulfan Sulfate	1031-07-8	2.4	1000	24	200	mg/kg	NA	NA	NA	<0.00183 UJ	<0.0019 U	<0.00267 UJ	<0.00186 U	<0.00224 U	<0.00289 U	<0.00169 U	<0.00211 U	<0.00214 U	<0.00175 U	<0.00198 U	<0.00239 U	<0.00178 U	<0.00197 U
Endrin	72-20-8	**0.014**	0.06	11	89	mg/kg	NA	NA	NA	<0.00183 UJ	<0.0019 U	<0.00267 UJ	<0.00186 U	<0.00224 U	<0.00289 U	<0.00169 U	<0.00211 U	<0.00214 U	<0.00175 U	<0.00198 U	<0.00239 U	<0.00178 U	<0.00197 U
Endrin Aldehyde	7421-93-4	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.00183 UJ	<0.0019 U	<0.00267 UJ	<0.00186 U	<0.00224 U	<0.00289 U	<0.00169 U	<0.00211 U	<0.00214 U	<0.00175 U	<0.00198 U	<0.00239 U	<0.00178 U	<0.00197 U
Endrin Ketone	53494-70-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.00183 UJ	<0.0019 U	<0.00267 UJ	<0.00186 U	<0.00224 U	<0.00289 U	<0.00169 U	<0.00211 U	<0.00214 U	<0.00175 U	<0.00198 U	<0.00239 U	<0.00178 U	<0.00197 U
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	1.3	9.2	mg/kg	NA	NA	NA	<0.00183 UJ	<0.0019 U	<0.00267 UJ	<0.00186 U	<0.00224 U	<0.00289 U	<0.00169 U	<0.00211 U	<0.00214 U	<0.00175 U	<0.00198 U	<0.00239 U	<0.00178 U	<0.00197 U
Gamma-Chlordane	5566-34-7	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.00183 UJ	<0.0019 U	<0.00267 UJ	<0.00186 U	<0.00224 U	<0.00289 U	<0.00169 U	<0.00211 U	<0.00214 U	<0.00175 U	<0.00198 U	<0.00239 U	<0.00178 U	<0.00197 U
Heptachlor	76-44-8	0.042	0.38	2.1	15	mg/kg	NA	NA	NA	<0.00183 UJ	<0.0019 U	<0.00267 UJ	<0.00186 U	<0.00224 U	<0.00289 U	<0.00169 U	<0.00211 U	<0.00214 U	<0.00175 U	<0.00198 U	<0.00239 U	<0.00178 U	<0.00197 U
Heptachlor Epoxide	1024-57-3	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.00183 UJ	<0.0019 U	<0.00267 UJ	<0.00186 U	<0.00224 U	<0.00289 U	<0.00169 U	<0.00211 U	<0.00214 U	<0.00175 U	<0.00198 U	<0.00239 U	<0.00178 U	<0.00197 U
Methoxychlor	72-43-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.00183 UJ	<0.0019 U	<0.00267 UJ	<0.00186 U	<0.00224 U	<0.00289 U	<0.00169 U	<0.00211 U	<0.00214 U	<0.00175 U	<0.00198 U	<0.00239 U	<0.00178 U	<0.00197 U
Toxaphene	8001-35-2	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.183 UJ	<0.19 U	<0.267 UJ	<0.186 U	<0.224 U	<0.289 U	<0.169 U	<0.211 U	<0.214 U	<0.175 U	<0.198 U	<0.239 U	<0.178 U	<0.197 U
Herbicides																							
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.0226 U	<0.0231 U	<0.0322 U	<0.0229 U	<0.0276 U	<0.0355 U	<0.0208 U	<0.0256 U	<0.0259 U	<0.0211 U	<0.024 U	<0.0291 U	<0.0213 U	<0.024 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.0226 U	<0.0231 U	<0.0322 U	<0.0229 U	<0.0276 U	<0.0355 U	<0.0208 U	<0.0256 U	<0.0259 U	<0.0211 U	<0.024 U	<0.0291 U	<0.0213 U	<0.024 U
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	100	500	mg/kg	NA	NA	NA	<0.0226 U	<0.0231 U	<0.0322 U	<0.0229 U	<0.0276 U	<0.0355 U	<0.0208 U	<0.0256 U	<0.0259 U	<0.0211 U	<0.024 U	<0.0291 U	<0.0213 U	<0.024 U
Polychlorinated Biphenyl																							
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.0185 UJ	<0.0191 UJ	<0.0269 UJ	<0.0188 UJ	<0.0226 U	<0.0292 U	<0.017 UJ	<0.0213 U	<0.0216 U	<0.0177 U	<0.02 U	<0.0241 U	<0.0179 U	<0.0199 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.0185 UJ	<0.0191 UJ	<0.0269 UJ	<0.0188 UJ	<0.0226 U	<0.0292 U	<0.017 UJ	<0.0213 U	<0.0216 U	<0.0177 U	<0.02 U	<0.0241 U	<0.0179 U	<0.0199 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.0185 UJ	<0.0191 UJ	<0.0269 UJ	<0.0188 UJ	<0.0226 U	<0.0292 U	<0.017 UJ	<0.0213 U	<0.0216 U	<0.0177 U	<0.02 U	<0.0241 U	<0.0179 U	<0.0199 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.0185 UJ	<0.0191 UJ	<0.0269 UJ	<0.0188 UJ	<0.0226 U	<0.0292 U	<0.017 UJ	<0.0213 U	<0.0216 U	<0.0177 U	<0.02 U	<0.0241 U	<0.0179 U	<0.0199 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.0185 UJ	<0.0191 UJ	<0.0269 UJ	<0.0188 UJ	<0.0226 U	<0.0292 U	0.195 J	<0.0213 U	<0.0216 U	<0.0177 U	<0.02 U	<0.0241 U	<0.0179 U	<0.0199 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.0185 UJ	<0.0191 UJ	<0.0269 UJ	<0.0188 UJ	<0.0226 U	<0.0292 U	<0.017 UJ	<0.0213 U	<0.0216 U	<0.0177 U	<0.02 U	<0.0241 U	<0.0179 U	<0.0199 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.0185 UJ	<0.0191 UJ	<0.0269 UJ	<0.0188 UJ	<0.0226 U	<0.0292 U	0.076 J	0.246	<0.0216 U	<0.0177 U	<0.02 U	<0.0241 U	<0.0179 U	<0.0199 U
Total PCBs	1336-36-3	**0.1**	3.2	1	1	mg/kg	NA	NA	NA	<0.0185 UJ	<0.0191 UJ	<0.0269 UJ	<0.0188 UJ	<0.0226 U	<0.0292 U	**0.271 J**	**0.246**	<0.0216 U	<0.0177 U	<0.02 U	<0.0241 U	<0.0179 U	<0.0199 U
Metals																							
Aluminum	7429-90-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	5,960	5,290	15,100	10,500	5,940	27,900	6,940	7,190	9,120	12,200	8,760	15,400	10,100	8,100
Antimony	7440-36-0	NS	NS	NS	NS	mg/kg	NA	NA	NA	<2.84 U	3.46	5.16	<2.89 U	<3.47 U	<4.47 U	<2.62 U	<3.23 U	<3.26 U	<2.67 U	3.33	3.77	<2.71 U	<3 U
Arsenic	7440-38-2	**13**	16	16	16	mg/kg	NA	NA	NA	<1.71 U	2.48	5.84	4.21	9.17	6.26	3.55	6.33	3.05	4.67	5.57	3.4	<1.63 U	3.87
Barium	7440-39-3	**350**	820	400	400	mg/kg	NA	NA	NA	49.7	67.2	81.4	337	**408**	79.7	135	**887**	38.6	85.4	128	56.8	82.7	163
Beryllium	7440-41-7	7.2	47	72	590	mg/kg	NA	NA	NA	<0.057 U	<0.058 U	<0.081 U	<0.058 U	0.292	<0.089 U	<0.052 U	<0.065 U	<0.065 U	<0.053 U	<0.06 U	<0.073 U	<0.054 U	<0.06 U
Cadmium	7440-43-9	**2.5**	7.5	4.3	9.3	mg/kg	NA	NA	NA	0.65	2.24	<0.487 U	**3.65**	**27.2**	1.1	2.42	**4.14**	<0.391 U	1.3	0.989	0.567	<0.325 U	0.748
Calcium	7440-70-2	NS	NS	NS	NS	mg/kg	NA	NA	NA	26,400 B	3,790 B	3,210 B	14,700 B	4,340	4,960	51,300	36,800	2,790	32,200	11,800	11,700	2,240	33,200
Chromium, Hexavalent	18540-29-9	1	19	110	400	mg/kg	NA	NA	NA	<0.569 U	<0.58 U	<0.811 U	<0.577 U	<0.694 U	<0.893 U	<0.523 U	<0.645 U	<0.652 U	<0.534 U	<0.625 U	<0.73 U	<0.542 U	<0.601 U
Chromium, Total	7440-47-3	NS	NS	NS	NS	mg/kg	NA	NA	NA	8.88	16.6	33.6	24.4	15.1	49.8	16.5	25	16.3	27.4	31.2	33.1	18.8	30.1
Chromium, Trivalent	16065-83-1	**30**	NS	180	1500	mg/kg	NA	NA	NA	8.88	16.6	**33.6**	24.4	15.1	**49.8**	16.5	25	16.3	27.4	**31.2**	**31.3**	18.8	**30.1**
Cobalt	7440-48-4	NS	NS	NS	NS	mg/kg	NA	NA	NA	9.18	6.2	8.75	9.5	8.38	17.3	7.66	10.9	7.58	8.48	8.79	12.1	7.31	7.62
Copper	7440-50-8	**50**	1720	270	270	mg/kg	NA	NA	NA	**109**	29	49.5	**117**	**128**	19.3	**65.7**	**107**	10.1	**55.6**	**50.6**	15.8	24.8	**51.8**
Cyanide	57-12-5	27	40	27	27	mg/kg	NA	NA	NA	<0.569 U	<0.58 U	<0.811 U	<0.577 U	<0.694 U	<0.893 U	<0.523 U	<0.645 U	<0.652 U	<0.534 U	<0.625 U	<0.73 U	<0.542 U	<0.601 U
Iron	7439-89-6	NS	NS	NS	NS	mg/kg	NA	NA	NA	23,400	13,500	28,200	38,600	12,000	39,000	12,700	52,100	15,300	6,570	14,200	28,500	15,200	16,400
Lead	7439-92-1	**63**	450	400	1000	mg/kg	NA	NA	NA	40.5	**66.6**	**65.5**	**436**	**437**	15.1	**128**	**1,280**	16.5	**91.9**	**120**	11.5	51.7	**119**
Magnesium	7439-95-4	NS	NS	NS	NS	mg/kg	NA	NA	NA	14,300	2,430	6,260	3,710	623	10,400	20,000	3,010	3,320	3,700	2,760	8,030	2,970	16,100
Manganese	7439-96-5	**1600**	2000	2000	10000	mg/kg	NA	NA	NA	222	75.7	320	337	172	1,280	243	328	255	294	157	808	160	260
Mercury	7439-97-6	**0.18**	0.73	0.81	2.8	mg/kg	NA	NA	NA	<0.0041 U	<0.0049 U	0.141	0.17	**1.06**	0.0659	0.105	**0.609**	0.055	0.0839	**1.19**	0.0832	<0.0295 U	<0.036 U
Nickel	7440-02-0	**30**	130	310	310	mg/kg	NA	NA	NA	10.9	11.7	17.6	**48.8**	25.6	26.3	15.2	26.9	10.9	24.6	14.5	12	10.1	11.8
Potassium	7440-09-7	NS	NS	NS	NS	mg/kg	NA	NA	NA	725 B	932 B	3,860 B	845	526 B	5,950 B	768 B	775 B	1,800 B	1,150 B	2,450 B	4,290 B	1,100 B	2,130 B
Selenium	7782-49-2	**3.9**	4	180	1500	mg/kg	NA	NA	NA	<2.84 U	<2.9 U	<4.06 U	<2.89 U	<3.47 UJ	<4.47 UJ	<2.62 UJ	<3.23 UJ	<3.26 UJ	<2.67 U	<3.03 U	<3.65 U	<2.71 U	<3 U
Silver	7440-22-4	**2**	8.3	180	1500	mg/kg	NA	NA	NA	<0.569 U	<0.58 U	<0.811 U	<0.577 U	<0.694 U	<0.893 U	<0.523 U	<0.645 U	<0.652 U	<0.534 U	0.804	<0.73 U	<0.542 U	<0.601 U
Sodium	7440-23-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	149	105	1,610	607	331	6,170	413	<64.5 U	746	114	162	1,970	177	354
Thallium	7440-28-0	NS	NS	NS	NS	mg/kg	NA	NA	NA	<2.84 U	<2.9 U	<4.06 U	<2.89 U	<3.47 U	<4.47 U	<2.62 U	<3.23 U	<3.26 U	<2.67 U	<3.03 U	<3.65 U	<2.71 U	<3 U
Vanadium	7440-62-2	NS	NS	NS	NS	mg/kg	NA	NA	NA	77	46.9	42.1	37.2	25.5	62.1	33.1	27.6	20.4	31.8	32.6	40.8	33.6	27.7
Zinc	7440-66-6	**109**	2480	10000	10000	mg/kg	NA	NA	NA	**141**	**356**	71.1	**1,120**	**815**	97.5	**514**	**1,040**	49	90.3	**168**	70.5	53.4	**176**
General Chemistry																							
Solids, Percent	SOLID	NS	NS	NS	NS	Percent	76.9	75.2	68.6	87.9	86.2	61.6	86.6	72.1	56	95.5	77.5	76.7	93.6	82.7	68.5	92.2	83.2
Perfluorooctanoic acids																							
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA	2991-50-6	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.000255 U	<0.00029 U	<0.000371 U	<0.000264 U	<0.000318 U	<0.000367 U	<0.000223 U	<0.000277 U	<0.00031 U	<0.000252 U	<0.00028 U	<0.000332 U	<0.000228 U	<0.000267 U
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOS	2355-31-9	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.000255 U	<0.00029 U	<0.000371 U	<0.000264 U	<0.000318 U	<0.000367 U	<0.000223 U	<0.000277 U	<0.00031 U	<0.000252 U	<0.00028 U	<0.000332 U	<0.000228 U	<0.000267 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.000255 U	<0.00029 U	<0.000371 U	<0.000264 U	<0.000318 U	<0.000367 U	<0.000223 U	<0.000277 U	<0.00031 U	<0.000252 U	<0.00028 U	<0.000332 U	<0.000228 U	<0.000267 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	NS	mg/kg	NA	NA	NA	0.00026	<0.00029 U	0.00194	<0.000264 U	<0.000318 U	<0.000367 U	<0.000223 U	<0.000277 U	<0.00031 U	<0.000252 U	<0.00028 U	<0.000332 U	0.000422	<0.000267 U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.000255 U	<0.00029 U	<0.000371 U	<0.000264 U	<0.000318 U	<0.000367 U	<0.000223 U	<0.000277 U	<0.00031 U	<0.000252 U	<0.00028 U	<0.000332 U	<0.000228 U	<0.000267 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.000255 U	<0.00029 U	<0.000371 U	<0.000264 U	<0.000318 U	<0.000367 U	<0.000223 U	<0.000277 U	<0.00031 U	<0.000252 U	<0.00028 U	<0.000332 U	<0.000228 U	<0.000267 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.000255 U	<0.00029 U	<0.000371 U	<0.000264 U	<0.000318 U	<0.000367 U	<0.000223 U	<0.000277 U	<0.00031 U	<0.000252 U	<0.00028 U	<0.000332 U	<0.000228 U	<0.000267 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.000255 U	<0.00029 U	<0.000371 U	<0.000264 U	<0.000318 U	<0.000367 U	<0.000223 U	<0.000277 U	<0.00031 U	<0.000252 U	<0.00028 U	<0.000332 U	<0.000228 U	<0.000267 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.000255 U	<0.00029 U	<0.000371 U	<0.000264 U	<0.000318 U	<0.000367 U	<0.000223 U	<0.000277 U	<0.00031 U	<0.000252 U	<0.00028 U	<0.000332 U	<0.000228 U	<0.000267 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.000255 U	<0.00029 U	<0.000371 U	<0.000264 U	<0.000318 U	<0.000367 U	<0.000223 U	<0.000277 U	<0.00031 U	<0.000252 U	<0.00028 U	<0.000332 U	<0.000228 U	<0.000267 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.000255 U	<0.00029 U	<0.000371 U	<0.000264 U	<0.000318 U	<0.000367 U	<0.000223 U	<0.000277 U	<0.00031 U	<0.000252 U	<0.00028 U	<0.000332 U	<0.000228 U	<0.000267 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.000255 U	<0.00029 U	<0.000371 U	0.000587	<0.000318 U	<0.000367 U	<0.000223 U	<0.000277 U	<0.00031 U	<0.000252 U	<0.00028 U	<0.000332 U	<0.000228 U	<0.000267 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.000255 U	<0.00029 U	<0.000371 U	<0.000264 U	<0.000318 U	<0.000367 U	<0.000223 U	<0.000277 U	<0.00031 U	<0.000252 U	<0.00028 U	<0.000332 U	<0.000228 U	<0.000267 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.044	0.44	mg/kg	NA	NA	NA	0.000444	0.000412	<0.000371 U	0.000385	<0.000318 U	<0.000367 U	<0.000223 U	<0.000277 U	<0.00031 U	<0.000252 U	**0.000923**	<0.000332 U	0.000303	<0.000267 U
Perfluorooctanoic Acid (PFOA)	335-67-1	0.00066	0.0011	0.033	0.5	mg/kg	NA	NA	NA	<0.000255 U	<0.00029 U	<0.000371 U	0.000356	<0.000318 U	<0.000367 U	<0.000223 U	<0.000277 U	<0.00031 U	<0.000252 U	<0.00028 U	<0.000332 U	<0.000228 U	<0.000267 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.000255 U	<0.00029 U	<0.000371 U	<0.000264 U	<0.000318 U	<0.000367 U	<0.000223 U	<0.000277 U	<0.00031 U	<0.000252 U	<0.00028 U	<0.000332 U	<0.000228 U	<0.000267 U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.000255 U	<0.00029 U	<0.000371 U	<0.000264 U	<0.000318 U	<0.000367 U	<0.000223 U	<0.000277 U	<0.00031 U	<0.000252 U	<0.00028 U	<0.000332 U	<0.000228 U	<0.000267 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.000255 U	<0.00029 U	<0.000371 U	<0.000264 U	<0.000318 U	<0.000367 U	<0.000223 U	<0.000277 U	<0.00031 U	<0.000252 U	<0.00028 U	<0.000332 U	<0.000228 U	<0.000267 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.000255 U	<0.00029 U	<0.000371 U	<0.000264 U	<0.000318 U	<0.000367 U	<0.000223 U	<0.000277 U	<0.00031 U	<0.000252 U	<0.00028 U	<0.000332 U	<0.000228 U	<0.000267 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FT	39108-34-4	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.000255 U	<0.00029 UJ	<0.000371 U	<0.000264 U	<0.000318 U	<0.000367 U	<0.000223 U	<0.000277 U	<0.00031 U	<0.000252 U	<0.00028 U	<0.000332 U	<0.000228 U	<0.000267 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FT	27619-97-2	NS	NS	NS	NS	mg/kg	NA	NA	NA	<0.000255 U	<0.00029 U	<0.000371 U	<0.000264 U	<0.000318 U	<0.000367 U	<0.000223 U	<0.000277 U	<0.00031 U	<0.000252 U	<0.00028 U	<0.000332 U	<0.000228 U	<0.000267 U

Notes provided on Page 16.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3C
Remedial Investigation Report
Soil Sample Analytical Results - Block 1824 (G)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	G-SB104	G-SB105	G-SB105	G-SB105	G-SB106	G-SB106	G-SB106	G-SB107	G-SB107	G-SB107	G-SB108	G-SB108	G-SB108	G-SB109	G-SB109	G-SB110	G-SB110
						Sample Name	G-SB104_10-12	G-SB105_0-2	G-SB105_6-8	G-SB105_10-12	G-SB106_0-2	G-SB106_7-9	G-SB106_10-12	G-SB107_0-2	G-SB107_7-9	G-SB107_10-12	G-SB108_0-2	G-SB108_6-8	G-SB108_9-11	G-SB109_0-2	G-SB109_5-7	G-SB110_0-2	G-SB110_6-8
						Sample Date	09/30/2021	09/21/2021	09/21/2021	09/21/2021	09/22/2021	09/22/2021	09/22/2021	09/21/2021	09/21/2021	09/21/2021	09/30/2021	09/30/2021	09/30/2021	10/01/2021	10/01/2021	10/01/2021	10/01/2021
						Sample Depth	10-12	0-2	6-8	10-12	0-2	7-9	10-12	0-2	7-9	10-12	0-2	6-8	9-11	0-2	5-7	0-2	6-8
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																							
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 UJ	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	500	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
1,1-Dichloroethane	75-34-3	0.27	0.27	26	240	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
1,1-Dichloroethene	75-35-4	0.33	0.33	100	500	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
1,2,4-Trimethylbenzene	95-63-6	**3.6**	3.6	52	190	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	0.065	<0.0031 U	<0.0023 U	0.0058	<0.0029 U	<0.0022 U	<0.0019 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	500	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
1,2-Dichloroethane	107-06-2	0.02	0.02	3.1	30	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	**8.4**	8.4	52	190	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	0.034	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	280	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	130	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.072 U	<0.079 U	<0.061 U	<0.085 U	<0.044 U	<0.076 U	<0.076 U	<0.084 U	<0.059 U	<0.084 U	<0.056 U	<0.061 U	<0.047 U	<0.047 U	<0.058 U	<0.044 U	<0.039 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
Acetone	67-64-1	**0.05**	0.05	100	500	mg/kg	0.034	<0.0079 U	**0.17**	**0.094**	0.02	**0.099**	0.04	0.015 J	**0.062**	**0.088**	0.044	**0.092**	0.018	0.019	0.016	0.034	0.018
Acrolein	107-02-8	NS	NS	NS	NS	mg/kg	<0.0072 U	<0.0079 U	<0.0061 U	<0.0085 U	<0.0044 U	<0.0076 U	<0.0076 U	<0.0084 U	<0.0059 U	<0.0084 U	<0.0056 U	<0.0061 U	<0.0047 U	<0.0047 U	<0.0058 U	0.0058 J	<0.0039 U
Acrylonitrile	107-13-1	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
Benzene	71-43-2	**0.06**	0.06	4.8	44	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	0.014	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
Bromochloromethane	74-97-5	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
Bromodichloromethane	75-27-4	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
Bromoform	75-25-2	NS	NS	NS	NS	mg/kg	<0.0036 UJ	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 UJ	<0.0038 U	<0.0038 UJ	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 UJ	<0.0031 UJ	<0.0023 UJ	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
Bromomethane	74-83-9	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 UJ	<0.0029 UJ	<0.0022 UJ	<0.0019 UJ
Carbon Disulfide	75-15-0	NS	NS	NS	NS	mg/kg	0.015	<0.0039 U	0.004 J	0.005 J	<0.0022 U	0.0061 J	<0.0038 U	<0.0042 U	0.0043 J	0.0074 J	<0.0028 U	<0.0031 U	0.0047	0.0038 J	<0.0029 U	<0.0022 U	<0.0019 U
Carbon Tetrachloride	56-23-5	0.76	0.76	2.4	22	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 UJ	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
Chlorobenzene	108-90-7	1.1	1.1	100	500	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
Chloroethane	75-00-3	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
Chloroform	67-66-3	0.37	0.37	49	350	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
Chloromethane	74-87-3	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	0.0052 J	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	100	500	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 UJ	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
Cyclohexane	110-82-7	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	0.0063	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
Dibromochloromethane	124-48-1	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
Dibromomethane	74-95-3	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
Ethylbenzene	100-41-4	**1**	1	41	390	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	0.042	<0.0031 U	<0.0023 U	0.0027 J	<0.0029 U	<0.0022 U	<0.0019 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	0.0053 J	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
M,P-Xylene	179601-23-1	NS	NS	NS	NS	mg/kg	<0.0072 U	<0.0079 U	<0.0061 U	<0.0085 U	<0.0044 U	<0.0076 U	<0.0076 U	<0.0084 U	<0.0059 U	<0.0084 U	0.059	<0.0061 U	<0.0047 U	0.013	<0.0058 U	<0.0044 U	<0.0039 U
Methyl Acetate	79-20-9	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	0.0081	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	0.12	0.12	100	500	mg/kg	0.0049 J	<0.0039 U	0.049	0.024	<0.0022 U	0.025	0.0089	<0.0042 U	0.018	0.011	0.011	0.022	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	0.0069	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
Methylcyclohexane	108-87-2	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	0.024	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
Methylene Chloride	75-09-2	0.05	0.05	100	500	mg/kg	<0.0072 U	0.032	0.009 J	0.017	<0.0044 U	<0.0076 U	<0.0076 U	<0.0084 U	0.012	0.022	<0.0056 U	<0.0061 U	<0.0047 U	<0.0047 U	<0.0058 U	<0.0044 U	0.0049 J
n-Butylbenzene	104-51-8	12	12	100	500	mg/kg	<0.0036 UJ	<0.0039 UJ	<0.0031 UJ	<0.0043 UJ	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 UJ	<0.003 UJ	<0.0042 UJ	<0.0028 UJ	<0.0031 UJ	<0.0023 UJ	<0.0023 UJ	<0.0029 UJ	<0.0022 UJ	<0.0019 UJ
n-Propylbenzene	103-65-1	**3.9**	3.9	100	500	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	0.0073	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	0.028	<0.0031 U	<0.0023 U	0.0065	<0.0029 U	<0.0022 U	<0.0019 U
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
Sec-Butylbenzene	135-98-8	11	11	100	500	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
Styrene	100-42-5	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 UJ	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
T-Butylbenzene	98-06-6	5.9	5.9	100	500	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 UJ	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
Tert-Butyl Alcohol	75-65-0	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0039 UJ	<0.0031 U	<0.0043 UJ	<0.0022 UJ	<0.0038 U	0.016 J	<0.0042 UJ	<0.003 UJ	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	100	500	mg/kg	0.0073	<0.0039 U	<0.0031 U	0.0053 J	<0.0022 U	<0.0038 U	0.014	<0.0042 U	<0.003 U	0.0068 J	0.0043 J	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	19	150	mg/kg	<0.0036 UJ	0.013	<0.0031 U	<0.0043 U	<0.0022 UJ	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 UJ	<0.0031 UJ	<0.0023 UJ	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
Toluene	108-88-3	0.7	0.7	100	500	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	0.0092	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
Total Xylenes	1330-20-7	**0.26**	1.6	100	500	mg/kg	<0.011 U	<0.012 U	<0.0092 U	<0.013 U	<0.0067 U	<0.011 U	<0.011 U	<0.013 U	<0.0089 U	<0.013 U	0.086	<0.0092 U	<0.007 U	0.019	<0.0087 U	<0.0066 U	<0.0058 U
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	100	500	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 UJ	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
Trichloroethene (TCE)	79-01-6	0.47	0.47	21	200	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U
Vinyl Chloride	75-01-4	0.02	0.02	0.9	13	mg/kg	<0.0036 U	<0.0039 U	<0.0031 U	<0.0043 U	<0.0022 U	<0.0038 U	<0.0038 U	<0.0042 U	<0.003 U	<0.0042 U	<0.0028 U	<0.0031 U	<0.0023 U	<0.0023 U	<0.0029 U	<0.0022 U	<0.0019 U

Notes provided on Page 16.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3C
Remedial Investigation Report
Soil Sample Analytical Results - Block 1824 (G)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	G-SB104	G-SB105	G-SB105	G-SB105	G-SB106	G-SB106	G-SB106	G-SB107	G-SB107	G-SB107	G-SB108	G-SB108	G-SB108	G-SB109	G-SB109	G-SB110	G-SB110
						Sample Name	G-SB104_10-12	G-SB105_0-2	G-SB105_6-8	G-SB105_10-12	G-SB106_0-2	G-SB106_7-9	G-SB106_10-12	G-SB107_0-2	G-SB107_7-9	G-SB107_10-12	G-SB108_0-2	G-SB108_6-8	G-SB108_9-11	G-SB109_0-2	G-SB109_5-7	G-SB110_0-2	G-SB110_6-8
						Sample Date	09/30/2021	09/21/2021	09/21/2021	09/21/2021	09/22/2021	09/22/2021	09/22/2021	09/21/2021	09/21/2021	09/21/2021	09/30/2021	09/30/2021	09/30/2021	10/01/2021	10/01/2021	10/01/2021	10/01/2021
						Sample Depth	10-12	0-2	6-8	10-12	0-2	7-9	10-12	0-2	7-9	10-12	0-2	6-8	9-11	0-2	5-7	0-2	6-8
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																							
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	NS	mg/kg	<0.136 U	<0.103 U	<0.109 U	<0.135 U	<0.0867 U	<0.118 U	<0.141 U	<0.104 U	<0.104 U	<0.138 U	<0.0924 U	<0.114 U	<0.122 U	<0.0962 U	<0.102 U	<0.0904 U	<0.0956 U
1,2-Diphenylhydrazine	122-66-7	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.0194 U	<0.0192 U	<0.019 U	<0.0189 U	<0.0194 U	<0.0194 U	<0.0187 U	<0.0192 U	<0.0194 U	<0.0183 U	<0.0189 U	<0.019 U	<0.019 U	<0.0187 U	<0.019 U	<0.0196 U	<0.019 U
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	NS	mg/kg	<0.136 U	<0.103 U	<0.109 U	<0.135 U	<0.0867 U	<0.118 U	<0.141 U	<0.104 U	<0.104 U	<0.138 U	<0.0924 U	<0.114 U	<0.122 U	<0.0962 UJ	<0.102 UJ	<0.0904 U	<0.0956 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 UJ	<0.0512 UJ	<0.0453 U	<0.0479 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 UJ	<0.0512 UJ	<0.0453 U	<0.0479 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 UJ	<0.0512 UJ	<0.0453 U	<0.0479 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 UJ	<0.0512 UJ	<0.0453 U	<0.0479 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	NS	mg/kg	<0.136 U	<0.103 U	<0.109 U	<0.135 U	<0.0867 U	<0.118 U	<0.141 U	<0.104 U	<0.104 U	<0.138 U	<0.0924 U	<0.114 U	<0.122 U	<0.0962 UJ	<0.102 UJ	<0.0904 U	<0.0956 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
2-Chlorophenol	95-57-8	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 UJ	<0.0512 UJ	<0.0453 U	<0.0479 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	0.644 D	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	0.0571 JD	<0.0479 U
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	500	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 UJ	<0.0512 UJ	<0.0453 U	<0.0479 U
2-Nitroaniline	88-74-4	NS	NS	NS	NS	mg/kg	<0.136 U	<0.103 U	<0.109 U	<0.135 U	<0.0867 U	<0.118 U	<0.141 U	<0.104 U	<0.104 U	<0.138 U	<0.0924 U	<0.114 U	<0.122 U	<0.0962 U	<0.102 U	<0.0904 U	<0.0956 U
2-Nitrophenol	88-75-5	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 UJ	<0.0512 UJ	<0.0453 U	<0.0479 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	0.33	0.33	100	500	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	0.0982 D	<0.0571 U	<0.0613 U	<0.0482 UJ	<0.0512 UJ	<0.0453 U	<0.0479 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
3-Nitroaniline	99-09-2	NS	NS	NS	NS	mg/kg	<0.136 U	<0.103 U	<0.109 U	<0.135 U	<0.0867 U	<0.118 U	<0.141 U	<0.104 U	<0.104 U	<0.138 U	<0.0924 U	<0.114 U	<0.122 U	<0.0962 U	<0.102 U	<0.0904 U	<0.0956 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	NS	mg/kg	<0.136 U	<0.103 U	<0.109 U	<0.135 U	<0.0867 U	<0.118 U	<0.141 U	<0.104 U	<0.104 U	<0.138 U	<0.0924 U	<0.114 U	<0.122 U	<0.0962 UJ	<0.102 UJ	<0.0904 U	<0.0956 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 UJ	<0.0512 UJ	<0.0453 U	<0.0479 U
4-Chloroaniline	106-47-8	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
4-Nitroaniline	100-01-6	NS	NS	NS	NS	mg/kg	<0.136 U	<0.103 U	<0.109 U	<0.135 U	<0.0867 U	<0.118 U	<0.141 U	<0.104 U	<0.104 U	<0.138 U	<0.0924 U	<0.114 U	<0.122 U	<0.0962 U	<0.102 U	<0.0904 U	<0.0956 U
4-Nitrophenol	100-02-7	NS	NS	NS	NS	mg/kg	<0.136 U	<0.103 U	<0.109 U	<0.135 U	<0.0867 U	<0.118 U	<0.141 U	<0.104 U	<0.104 U	<0.138 U	<0.0924 U	<0.114 U	<0.122 U	<0.0962 UJ	<0.102 UJ	<0.0904 U	<0.0956 U
Acenaphthene	83-32-9	20	98	100	500	mg/kg	<0.0682 U	<0.0517 U	0.0617 JD	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
Acenaphthylene	208-96-8	100	107	100	500	mg/kg	<0.0682 U	0.0544 JD	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	0.0849 JD	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	0.0491 JD	<0.0479 U
Acetophenone	98-86-2	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	NS	NS	NS	mg/kg	<0.273 U	<0.207 U	<0.218 U	<0.27 U	<0.174 U	<0.236 U	<0.282 U	<0.208 U	<0.208 U	<0.276 U	<0.185 U	<0.228 U	<0.245 U	<0.193 U	<0.205 U	<0.181 U	<0.191 U
Anthracene	120-12-7	100	1000	100	500	mg/kg	<0.0682 U	0.11 D	0.117 D	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	0.117 D	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	0.0556 JD	<0.0479 U
Atrazine	1912-24-9	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
Benzaldehyde	100-52-7	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
Benzidine	92-87-5	NS	NS	NS	NS	mg/kg	<0.273 U	<0.207 U	<0.218 U	<0.27 U	<0.174 U	<0.236 U	<0.282 U	<0.208 U	<0.208 U	<0.276 U	<0.185 U	<0.228 U	<0.245 U	<0.193 U	<0.205 U	<0.181 U	<0.191 U
Benzo(a)anthracene	56-55-3	**1**	1	1	5.6	mg/kg	<0.0682 U	0.542 D	0.316 D	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	0.34 D	0.0726 JD	0.398 D	0.0992 JD	<0.0613 U	0.0577 JD	0.0646 JD	0.133 D	<0.0479 U
Benzo(a)pyrene	50-32-8	**1**	22	1	1	mg/kg	<0.0682 U	0.52 D	0.321 D	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	0.376 D	0.0858 JD	0.494 D	0.125 D	<0.0613 U	0.0639 JD	0.0646 JD	0.16 D	<0.0479 U
Benzo(b)fluoranthene	205-99-2	**1**	1.7	1	5.6	mg/kg	<0.0682 U	0.487 D	0.268 D	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	0.329 D	<0.069 U	0.434 D	0.103 JD	<0.0613 U	0.0569 JD	<0.0512 U	0.134 D	<0.0479 U
Benzo(g,h,i)Perylene	191-24-2	100	1000	100	500	mg/kg	<0.0682 U	0.266 D	0.156 D	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	0.216 D	<0.069 U	0.261 D	0.0838 JD	<0.0613 U	0.0492 JD	<0.0512 U	0.119 D	<0.0479 U
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	3.9	56	mg/kg	<0.0682 U	0.381 D	0.228 D	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	0.23 D	<0.069 U	0.375 D	0.0874 JD	<0.0613 U	<0.0482 U	0.0539 JD	0.12 D	<0.0479 U
Benzoic Acid	65-85-0	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
Benzyl Alcohol	100-51-6	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	0.202 D	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	0.0638 JD	0.145 D	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	4.02 D	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
Caprolactam	105-60-2	NS	NS	NS	NS	mg/kg	<0.136 U	<0.103 U	<0.109 U	<0.135 U	<0.0867 U	<0.118 U	<0.141 U	<0.104 U	<0.104 U	<0.138 U	<0.0924 U	<0.114 U	<0.122 U	<0.0962 U	<0.102 U	<0.0904 U	<0.0956 U
Carbazole	86-74-8	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	0.0652 JD	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
Chrysene	218-01-9	**1**	1	3.9	56	mg/kg	<0.0682 U	0.505 D	0.26 D	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	0.333 D	<0.069 U	0.331 D	0.081 JD	<0.0613 U	0.0631 JD	0.0621 JD	0.141 D	<0.0479 U
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.33	0.56	mg/kg	<0.0682 U	0.0841 JD	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	0.0657 JD	<0.069 U	0.11 D	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
Dibenzofuran	132-64-9	7	210	59	350	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
Dibutyl phthalate	84-74-2	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
Diethyl phthalate	84-66-2	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
Dimethyl phthalate	131-11-3	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
Dioctyl phthalate	117-84-0	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	0.383 D	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
Diphenylamine	122-39-4	NS	NS	NS	NS	mg/kg	<0.136 U	<0.103 U	<0.109 U	<0.135 U	<0.0867 U	<0.118 U	<0.141 U	<0.104 U	<0.104 U	<0.138 U	<0.0924 U	<0.114 U	<0.122 U	<0.0962 U	<0.102 U	<0.0904 U	<0.0956 U
Fluoranthene	206-44-0	100	1000	100	500	mg/kg	<0.0682 U	0.891 D	0.611 D	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	0.349 D	0.0781 JD	0.676 D	0.129 D	<0.0613 U	0.1 D	0.105 D	0.23 D	<0.0479 U
Fluorene	86-73-7	30	386	100	500	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	0.0783 JD	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
Hexachlorobenzene	118-74-1	0.33	3.2	1.2	6	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
Hexachloroethane	67-72-1	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	0.5	5.6	mg/kg	<0.0682 U	0.387 D	0.227 D	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	0.279 D	0.0737 JD	0.315 D	0.114 D	<0.0613 U	<0.0482 U	<0.0512 U	0.116 D	<0.0479 U
Isophorone	78-59-1	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
Naphthalene	91-20-3	12	12	100	500	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	0.383 D	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	0.0462 JD	<0.0479 U
Nitrobenzene	98-95-3	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
n-Nitrosodimethylamine	62-75-9	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	NS	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 U	<0.0512 U	<0.0453 U	<0.0479 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	6.7	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 UJ	<0.0512 UJ	<0.0453 U	<0.0479 U
Phenanthrene	85-01-8	100	1000	100	500	mg/kg	<0.0682 U	0.346 D	0.409 D	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	0.0856 JD	<0.069 U	0.338 D	<0.0571 U	<0.0613 U	0.0662 JD	0.0793 JD	0.0802 JD	<0.0479 U
Phenol	108-95-2	**0.33**	0.33	100	500	mg/kg	<0.0682 U	<0.0517 U	<0.0545 U	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	<0.0521 U	<0.069 U	<0.0463 U	<0.0571 U	<0.0613 U	<0.0482 UJ	<0.0512 UJ	<0.0453 U	<0.0479 U
Pyrene	129-00-0	100	1000	100	500	mg/kg	<0.0682 U	0.782 D	0.501 D	<0.0676 U	<0.0435 U	<0.0592 U	<0.0706 U	<0.052 U	0.404 D	0.0858 JD	0.569 D	0.177 D	<0.0613 U	0.107 D	0.114 D	0.275 D	<0.0479 U
Pyridine	110-86-1	NS	NS	NS	NS	mg/kg	<0.273 U	<0.207 U	<0.218 U	<0.27 U	<0.174 U	<0.236 U	<0.282 U	<0.208 U	<0.208 U	<0.276 U	<0.185 U	<0.228 U	<0.245 U	<0.193 U	<0.205 U	<0.181 U	<0.191 U

Notes provided on Page 16.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3C
Remedial Investigation Report
Soil Sample Analytical Results - Block 1824 (G)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	G-SB104	G-SB105	G-SB105	G-SB105	G-SB106	G-SB106	G-SB106	G-SB107	G-SB107	G-SB107	G-SB108	G-SB108	G-SB108	G-SB109	G-SB109	G-SB110	G-SB110
						Sample Name	G-SB104_10-12	G-SB105_0-2	G-SB105_6-8	G-SB105_10-12	G-SB106_0-2	G-SB106_7-9	G-SB106_10-12	G-SB107_0-2	G-SB107_7-9	G-SB107_10-12	G-SB108_0-2	G-SB108_6-8	G-SB108_9-11	G-SB109_0-2	G-SB109_5-7	G-SB110_0-2	G-SB110_6-8
						Sample Date	09/30/2021	09/21/2021	09/21/2021	09/21/2021	09/22/2021	09/22/2021	09/22/2021	09/21/2021	09/21/2021	09/21/2021	09/30/2021	09/30/2021	09/30/2021	10/01/2021	10/01/2021	10/01/2021	10/01/2021
						Sample Depth	10-12	0-2	6-8	10-12	0-2	7-9	10-12	0-2	7-9	10-12	0-2	6-8	9-11	0-2	5-7	0-2	6-8
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Petroleum Hydrocarbons																							
Total Petroleum Hydrocarbons	TPH	NS	NS	NS	NS	UNKNOWN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides																							
4,4'-DDD	72-54-8	**0.0033**	14	13	92	mg/kg	<0.00269 U	<0.00205 U	<0.00219 U	<0.00263 U	<0.00172 U	<0.00228 U	<0.00273 U	<0.00205 U	<0.0021 UJ	<0.00274 U	<0.00183 U	<0.00226 U	<0.00244 U	<0.00188 U	**0.00502 D**	<0.00179 U	<0.00185 U
4,4'-DDE	72-55-9	**0.0033**	17	8.9	62	mg/kg	<0.00269 U	<0.00205 U	<0.00219 U	<0.00263 U	<0.00172 U	<0.00228 U	<0.00273 U	<0.00205 U	<0.0021 UJ	<0.00274 U	<0.00183 U	<0.00226 U	<0.00244 U	<0.00188 U	<0.00201 U	<0.00179 U	<0.00185 U
4,4'-DDT	50-29-3	**0.0033**	136	7.9	47	mg/kg	<0.00269 U	<0.00205 U	<0.00219 U	<0.00263 U	<0.00172 U	<0.00228 U	<0.00273 U	<0.00205 U	<0.0021 UJ	<0.00274 U	<0.00183 U	<0.00226 U	<0.00244 U	<0.00188 U	<0.00201 U	<0.00179 U	<0.00185 U
Aldrin	309-00-2	0.005	0.19	0.097	0.68	mg/kg	<0.00269 U	<0.00205 U	<0.00219 U	<0.00263 U	<0.00172 U	<0.00228 U	<0.00273 U	<0.00205 U	<0.0021 UJ	<0.00274 U	<0.00183 U	<0.00226 U	<0.00244 U	<0.00188 U	<0.00201 U	<0.00179 U	<0.00185 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	0.48	3.4	mg/kg	<0.00269 U	<0.00205 U	<0.00219 U	<0.00263 U	<0.00172 U	<0.00228 U	<0.00273 U	<0.00205 U	<0.0021 UJ	<0.00274 U	<0.00183 U	<0.00226 U	<0.00244 U	<0.00188 U	<0.00201 U	<0.00179 U	<0.00185 U
Alpha Chlordane	5103-71-9	0.094	2.9	4.2	24	mg/kg	<0.00269 U	<0.00205 U	<0.00219 U	<0.00263 U	<0.00172 U	<0.00228 U	<0.00273 U	<0.00205 U	<0.0021 UJ	<0.00274 U	<0.00183 U	<0.00226 U	<0.00244 U	<0.00188 U	<0.00201 U	<0.00179 U	<0.00185 U
Alpha Endosulfan	959-98-8	2.4	102	24	200	mg/kg	<0.00269 U	<0.00205 U	<0.00219 U	<0.00263 U	<0.00172 U	<0.00228 U	<0.00273 U	<0.00205 U	<0.0021 UJ	<0.00274 U	<0.00183 U	<0.00226 U	<0.00244 U	<0.00188 U	<0.00201 U	<0.00179 U	<0.00185 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	0.36	3	mg/kg	<0.00269 U	<0.00205 U	<0.00219 U	<0.00263 U	<0.00172 U	<0.00228 U	<0.00273 U	<0.00205 U	<0.0021 UJ	<0.00274 U	<0.00183 U	<0.00226 U	<0.00244 U	<0.00188 U	<0.00201 U	<0.00179 U	<0.00185 U
Beta Endosulfan	33213-65-9	2.4	102	24	200	mg/kg	<0.00269 U	<0.00205 U	<0.00219 U	<0.00263 U	<0.00172 U	<0.00228 U	<0.00273 U	<0.00205 U	<0.0021 UJ	<0.00274 U	<0.00183 U	<0.00226 U	<0.00244 U	<0.00188 U	<0.00201 U	<0.00179 U	<0.00185 U
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	NS	mg/kg	<0.0539 U	<0.0411 U	<0.0437 U	<0.0527 U	<0.0344 U	<0.0457 U	<0.0546 U	<0.0411 U	<0.042 UJ	<0.0548 U	<0.0366 U	<0.0452 U	<0.0488 U	<0.0376 U	<0.0402 U	<0.0359 U	<0.037 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	100	500	mg/kg	<0.00269 U	<0.00205 U	<0.00219 U	<0.00263 U	<0.00172 U	<0.00228 U	<0.00273 U	<0.00205 U	<0.0021 UJ	<0.00274 U	<0.00183 U	<0.00226 U	<0.00244 U	<0.00188 U	<0.00201 U	<0.00179 U	<0.00185 U
Dieldrin	60-57-1	0.005	0.1	0.2	1.4	mg/kg	<0.00269 U	<0.00205 U	<0.00219 U	<0.00263 U	<0.00172 U	<0.00228 U	<0.00273 U	<0.00205 U	<0.0021 UJ	<0.00274 U	<0.00183 U	<0.00226 U	<0.00244 U	<0.00188 U	<0.00201 U	<0.00179 U	<0.00185 U
Endosulfan Sulfate	1031-07-8	2.4	1000	24	200	mg/kg	<0.00269 U	<0.00205 U	<0.00219 U	<0.00263 U	<0.00172 U	<0.00228 U	<0.00273 U	<0.00205 U	<0.0021 UJ	<0.00274 U	<0.00183 U	<0.00226 U	<0.00244 U	<0.00188 U	<0.00201 U	<0.00179 U	<0.00185 U
Endrin	72-20-8	**0.014**	0.06	11	89	mg/kg	<0.00269 U	<0.00205 U	<0.00219 U	<0.00263 U	<0.00172 U	<0.00228 U	<0.00273 U	<0.00205 U	<0.0021 UJ	<0.00274 U	<0.00183 U	<0.00226 U	<0.00244 U	<0.00188 U	<0.00201 U	<0.00179 U	<0.00185 U
Endrin Aldehyde	7421-93-4	NS	NS	NS	NS	mg/kg	<0.00269 U	<0.00205 U	<0.00219 U	<0.00263 U	<0.00172 U	<0.00228 U	<0.00273 U	<0.00205 U	<0.0021 UJ	<0.00274 U	<0.00183 U	<0.00226 U	<0.00244 U	<0.00188 U	<0.00201 U	<0.00179 U	<0.00185 U
Endrin Ketone	53494-70-5	NS	NS	NS	NS	mg/kg	<0.00269 U	<0.00205 U	<0.00219 U	<0.00263 U	<0.00172 U	<0.00228 U	<0.00273 U	<0.00205 U	<0.0021 UJ	<0.00274 U	<0.00183 U	<0.00226 U	<0.00244 U	<0.00188 U	<0.00201 U	<0.00179 U	<0.00185 U
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	1.3	9.2	mg/kg	<0.00269 U	<0.00205 U	<0.00219 U	<0.00263 U	<0.00172 U	<0.00228 U	<0.00273 U	<0.00205 U	<0.0021 UJ	<0.00274 U	<0.00183 U	<0.00226 U	<0.00244 U	<0.00188 U	<0.00201 U	<0.00179 U	<0.00185 U
Gamma-Chlordane	5566-34-7	NS	NS	NS	NS	mg/kg	<0.00269 U	<0.00205 U	<0.00219 U	<0.00263 U	<0.00172 U	<0.00228 U	<0.00273 U	<0.00205 U	<0.0021 UJ	<0.00274 U	<0.00183 U	<0.00226 U	<0.00244 U	<0.00188 U	<0.00201 U	<0.00179 U	<0.00185 U
Heptachlor	76-44-8	0.042	0.38	2.1	15	mg/kg	<0.00269 U	<0.00205 U	<0.00219 U	<0.00263 U	<0.00172 U	<0.00228 U	<0.00273 U	<0.00205 U	<0.0021 UJ	<0.00274 U	<0.00183 U	<0.00226 U	<0.00244 U	<0.00188 U	<0.00201 U	<0.00179 U	<0.00185 U
Heptachlor Epoxide	1024-57-3	NS	NS	NS	NS	mg/kg	<0.00269 U	<0.00205 U	<0.00219 U	<0.00263 U	<0.00172 U	<0.00228 U	<0.00273 U	<0.00205 U	<0.0021 UJ	<0.00274 U	<0.00183 U	<0.00226 U	<0.00244 U	<0.00188 U	<0.00201 U	<0.00179 U	<0.00185 U
Methoxychlor	72-43-5	NS	NS	NS	NS	mg/kg	<0.00269 U	<0.00205 U	<0.00219 U	<0.00263 U	<0.00172 U	<0.00228 U	<0.00273 U	<0.00205 U	<0.0021 UJ	<0.00274 U	<0.00183 U	<0.00226 U	<0.00244 U	<0.00188 U	<0.00201 U	<0.00179 U	<0.00185 U
Toxaphene	8001-35-2	NS	NS	NS	NS	mg/kg	<0.269 U	<0.205 U	<0.219 U	<0.263 U	<0.172 U	<0.228 U	<0.273 U	<0.205 U	<0.21 UJ	<0.274 U	<0.183 U	<0.226 U	<0.244 U	<0.188 U	<0.201 U	<0.179 U	<0.185 U
Herbicides																							
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	NS	mg/kg	<0.0322 U	<0.0246 U	<0.026 U	<0.0325 U	<0.0208 U	<0.028 U	<0.0336 U	<0.0244 U	<0.025 U	<0.0332 U	<0.0222 U	<0.0273 U	<0.0295 U	<0.0192 U	<0.0204 U	<0.018 U	<0.019 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	NS	mg/kg	<0.0322 U	<0.0246 U	<0.026 U	<0.0325 U	<0.0208 U	<0.028 U	<0.0336 U	<0.0244 U	<0.025 U	<0.0332 U	<0.0222 U	<0.0273 U	<0.0295 U	<0.0192 U	<0.0204 U	<0.018 U	<0.019 U
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	100	500	mg/kg	<0.0322 U	<0.0246 U	<0.026 U	<0.0325 U	<0.0208 U	<0.028 U	<0.0336 U	<0.0244 U	<0.025 U	<0.0332 U	<0.0222 U	<0.0273 U	<0.0295 U	<0.0192 U	<0.0204 U	<0.018 U	<0.019 U
Polychlorinated Biphenyl																							
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	NS	mg/kg	<0.0272 U	<0.0207 U	<0.0221 U	<0.0266 U	<0.0174 U	<0.0231 U	<0.0276 U	<0.0207 UJ	<0.0212 UJ	<0.0277 U	<0.0185 U	<0.0228 U	<0.0246 U	<0.019 U	<0.0203 U	<0.0181 U	<0.0187 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	NS	mg/kg	<0.0272 U	<0.0207 U	<0.0221 U	<0.0266 U	<0.0174 U	<0.0231 U	<0.0276 U	<0.0207 UJ	<0.0212 UJ	<0.0277 U	<0.0185 U	<0.0228 U	<0.0246 U	<0.019 U	<0.0203 U	<0.0181 U	<0.0187 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	NS	mg/kg	<0.0272 U	<0.0207 U	<0.0221 U	<0.0266 U	<0.0174 U	<0.0231 U	<0.0276 U	<0.0207 UJ	<0.0212 UJ	<0.0277 U	<0.0185 U	<0.0228 U	<0.0246 U	<0.019 U	<0.0203 U	<0.0181 U	<0.0187 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	NS	mg/kg	<0.0272 U	<0.0207 U	<0.0221 U	<0.0266 U	<0.0174 U	<0.0231 U	<0.0276 U	<0.0207 UJ	<0.0212 UJ	<0.0277 U	<0.0185 U	<0.0228 U	<0.0246 U	<0.019 U	<0.0203 U	<0.0181 U	<0.0187 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	NS	mg/kg	<0.0272 U	<0.0207 U	<0.0221 U	<0.0266 U	<0.0174 U	<0.0231 U	<0.0276 U	<0.0207 UJ	<0.0212 UJ	<0.0277 U	<0.0185 U	<0.0228 U	<0.0246 U	<0.019 U	<0.0203 U	<0.0181 U	<0.0187 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	NS	mg/kg	<0.0272 U	<0.0207 U	<0.0221 U	<0.0266 U	<0.0174 U	<0.0231 U	<0.0276 U	<0.0207 UJ	<0.0212 UJ	<0.0277 U	<0.0185 U	<0.0228 U	<0.0246 U	<0.019 U	<0.0203 U	<0.0181 U	<0.0187 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	NS	mg/kg	<0.0272 U	<0.0207 U	<0.0221 U	<0.0266 U	0.0188	<0.0231 U	<0.0276 U	<0.0207 UJ	<0.0212 UJ	<0.0277 U	<0.0185 U	<0.0228 U	<0.0246 U	<0.019 U	<0.0203 U	0.0214	<0.0187 U
Total PCBs	1336-36-3	**0.1**	3.2	1	1	mg/kg	<0.0272 U	<0.0207 U	<0.0221 U	<0.0266 U	0.0188	<0.0231 U	<0.0276 U	<0.0207 UJ	<0.0212 UJ	<0.0277 U	<0.0185 U	<0.0228 U	<0.0246 U	<0.019 U	<0.0203 U	0.0214	<0.0187 U
Metals																							
Aluminum	7429-90-5	NS	NS	NS	NS	mg/kg	16,800	5,640	1,790	16,300	9,670	3,120	25,500	5,750	4,960	18,000	13,300	4,780	10,100	6,510	5,200	10,400	6,640
Antimony	7440-36-0	NS	NS	NS	NS	mg/kg	4.43	<3.15 U	<3.32 U	<4.1 U	<2.62 U	<3.56 U	<4.25 U	<3.12 U	<3.19 U	<4.2 U	<2.79 UJ	<3.45 U	<3.72 U	<2.9 U	<3.08 U	4.41	<2.89 U
Arsenic	7440-38-2	**13**	16	16	16	mg/kg	9.71	**15.3**	<1.99 U	<2.46 U	4.46	5.07	8.99	3.14	3.09	5.84	3.87 J	5.76	5.35	4.79	<1.85 U	1.91	<1.73 U
Barium	7440-39-3	**350**	820	400	400	mg/kg	53.4	**1,110**	225	67.6	51.7	181	73.7	179	258	69.7	127	**532**	35.8	69.5	102	174	47
Beryllium	7440-41-7	7.2	47	72	590	mg/kg	<0.082 U	<0.063 U	<0.066 U	<0.082 U	<0.052 U	0.151	<0.085 U	0.231	0.443	<0.084 U	<0.056 U	0.355	<0.074 U	<0.058 U	<0.062 U	<0.055 U	<0.058 U
Cadmium	7440-43-9	**2.5**	7.5	4.3	9.3	mg/kg	1.17	**5.14**	**61.9**	<0.491 U	0.571	**7.3**	0.812	0.984	0.44	<0.503 U	2.18	0.922	<0.446 U	0.665	**2.52**	2.32	<0.346 U
Calcium	7440-70-2	NS	NS	NS	NS	mg/kg	4,100	15,400 B	21,000 B	2,590 B	58,300 B	5,300 B	3,760 B	28,800 B	7,420 B	4,940 B	24,000 J	5,320 B	6,160 B	55,300	31,300	9,620	1,590
Chromium, Hexavalent	18540-29-9	1	19	110	400	mg/kg	<0.822 U	<0.631 U	<0.665 U	<0.819 U	<0.523 U	<0.713 U	<0.85 U	<0.624 U	<0.638 U	<0.839 U	<0.558 U	<0.69 U	<0.744 U	<0.581 U	<0.617 U	<0.546 U	<0.577 U
Chromium, Total	7440-47-3	NS	NS	NS	NS	mg/kg	34.5	18.7	148	35.9	15.8	18.7	46.4	19.1	15	34.3	36.5 J	14.5	21.2	20.4	15.7	38.1	16.1
Chromium, Trivalent	16065-83-1	**30**	NS	180	1500	mg/kg	**34.5**	18.7	**148**	**35.9**	15.8	18.7	**46.4**	19.1	15	**34.3**	**36.5**	14.5	21.2	20.4	15.7	**38.1**	16.1
Cobalt	7440-48-4	NS	NS	NS	NS	mg/kg	12.9	26.6	33.7	8.69	6.73	20.7	17	8.85	5.7	12.5	10.1	6.15	8.03	3.65	5.21	7.11	6.44
Copper	7440-50-8	**50**	1720	270	270	mg/kg	19.4	**268**	**778**	19.7	23.3	**184**	23.4	**164**	**160**	23.6	**354 J**	**89.3**	11.2	36.7	**99.8**	**497**	22.1
Cyanide	57-12-5	27	40	27	27	mg/kg	<0.822 U	<0.631 U	<0.665 U	<0.819 U	<0.523 U	<0.713 U	<0.85 U	<0.624 U	<0.638 U	<0.839 U	<0.558 U	<0.69 U	<0.744 U	<0.581 U	<0.617 U	<0.546 U	<0.577 U
Iron	7439-89-6	NS	NS	NS	NS	mg/kg	23,100	24,100	543,000 D	29,500	12,700	110,000	34,400	33,700	19,800	33,100	19,300 J	18,000	22,800	12,300	10,600	20,000	12,100
Lead	7439-92-1	**63**	450	400	1000	mg/kg	21.2	**1,000**	**4,950**	34.8	40	**268**	20.1	**2,280**	**2,850**	**87.5**	**245**	**703**	10.9	**92.2**	**142**	**234**	2.74
Magnesium	7439-95-4	NS	NS	NS	NS	mg/kg	6,050	1,550 B	664 B	6,920 B	6,350	253	8,640	8,050 B	580 B	8,060 B	5,470 J	678	6,100	6,540	4,080	3,520	2,290
Manganese	7439-96-5	**1600**	2000	2000	10000	mg/kg	785	309	**2,660**	336	281	392	930	259	200	778	305	176	567	168	133	450	214
Mercury	7439-97-6	**0.18**	0.73	0.81	2.8	mg/kg	**0.19 J**	**1.09**	**0.622**	0.147	<0.0514 U	0.136	0.059	**0.463**	0.18	**0.976**	**1.33**	**0.217**	0.0642	0.127	0.176	0.0989	<0.0346 U
Nickel	7440-02-0	**30**	130	310	310	mg/kg	8.73	**63.5 J**	**83.7 J**	19.6 J	15.2	**53.4**	**45.1**	16.2 J	15.3 J	23.3 J	**47.4 J**	9.51	8.61	13.9 J	17 J	26.5 J	18.3 J
Potassium	7440-09-7	NS	NS	NS	NS	mg/kg	3,100 B	1,020	283	4,580	953	158	4,320	467	560	4,880	1,800 B	418 B	2,920 B	435	441	1,100	1,460
Selenium	7782-49-2	**3.9**	4	180	1500	mg/kg	<4.11 U	<3.15 U	<3.32 U	<4.1 U	<2.62 U	<3.56 U	<4.25 U	<3.12 U	<3.19 U	<4.2 U	<2.79 UJ	<3.45 U	<3.72 U	<2.9 U	<3.08 U	<2.73 U	<2.89 U
Silver	7440-22-4	**2**	8.3	180	1500	mg/kg	<0.822 U	<0.631 U	<0.665 U	<0.819 U	<0.523 U	<0.713 U	<0.85 U	<0.624 U	<0.638 U	<0.839 U	<0.558 UJ	<0.69 U	<0.744 U	<0.581 U	<0.617 U	<0.546 U	<0.577 U
Sodium	7440-23-5	NS	NS	NS	NS	mg/kg	3,100	284	253	1,290	167	111	2,070	178	295	2,540	365 J	276	2,690	112	92.6	281	188
Thallium	7440-28-0	NS	NS	NS	NS	mg/kg	<4.11 U	<3.15 U	24.2	<4.1 U	<2.62 U	8.03	<4.25 U	<3.12 U	<3.19 U	<4.2 U	<2.79 U	<3.45 U	<3.72 U	<2.9 U	<3.08 U	<2.73 U	<2.89 U
Vanadium	7440-62-2	NS	NS	NS	NS	mg/kg	43.6	26.6	13.2	45.5	35.2	49.4	61.1	22.3	19.9	42.7	29.5	25.2	24.2	16.5	13.8	29.1	20
Zinc	7440-66-6	**109**	2480	10000	10000	mg/kg	82.1	**5,480 D**	**16,100 D**	69	95.9	**1,850**	106	**213**	**277**	98.9	**683 J**	**360 B**	50.4 B	**233**	**732**	**609**	22.8
General Chemistry																							
Solids, Percent	SOLID	NS	NS	NS	NS	Percent	60.9	79.3	75.2	61	95.5	70.1	58.8	80.1	78.3	59.6	89.7	72.5	67.2	86.1	81	91.7	86.6
Perfluorooctanoic acids																							
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA	2991-50-6	NS	NS	NS	NS	mg/kg	<0.000334 U	<0.000315 U	<0.000323 U	<0.000386 U	<0.000256 U	<0.000343 U	<0.000412 U	<0.000283 U	<0.000312 U	<0.000397 U	0.000319	<0.000301 U	<0.000351 U	<0.000261 U	<0.000276 U	<0.000252 U	<0.000259 U
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOS	2355-31-9	NS	NS	NS	NS	mg/kg	<0.000334 U	<0.000315 U	<0.000323 U	<0.000386 U	<0.000256 U	<0.000343 U	<0.000412 U	<0.000283 U	<0.000312 U	<0.000397 U	<0.000275 U	<0.000301 U	<0.000351 U	<0.000261 U	<0.000276 U	<0.000252 U	<0.000259 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	NS	mg/kg	<0.000334 U	<0.000315 U	<0.000323 U	<0.000386 U	<0.000256 U	<0.000343 U	<0.000412 U	<0.000283 U	<0.000312 U	<0.000397 U	<0.000275 U	<0.000301 U	<0.000351 U	<0.000261 U	<0.000276 U	<0.000252 U	<0.000259 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	NS	mg/kg	<0.000334 U	0.000762	0.00041	<0.000386 U	<0.000256 U	0.000714	<0.000412 U	0.000755	0.002	<0.000397 U	<0.000275 U	<0.000301 U	<0.000351 U	<0.000261 U	<0.000276 U	0.000688	<0.000259 U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	NS	mg/kg	<0.000334 U	<0.000315 U	<0.000323 U	<0.000386 U	<0.000256 U	<0.000343 U	<0.000412 U	<0.000283 U	<0.000312 U	<0.000397 U	<0.000275 U	<0.000301 U	<0.000351 U	<0.000261 U	<0.000276 U	<0.000252 U	<0.000259 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	NS	mg/kg	<0.000334 U	<0.000315 U	<0.000323 U	<0.000386 U	<0.000256 U	<0.000343 U	<0.000412 U	<0.000283 U	<0.000312 U	<0.000397 U	<0.000275 U	<0.000301 U	<0.000351 U	<0.000261 U	<0.000276 U	<0.000252 U	<0.000259 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	NS	mg/kg	<0.000334 U	<0.000315 U	<0.000323 U	<0.000386 U	<0.000256 U	<0.000343 U	<0.000412 U	<0.000283 U	<0.000312 U	<0.000397 U	<0.000275 U	<0.000301 U	<0.000351 U	<0.000261 U	<0.000276 U	<0.000252 U	<0.000259 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	NS	mg/kg	<0.000334 U	<0.000315 U	<0.000323 U	<0.000386 U	<0.000256 U	<0.000343 U	<0.000412 U	<0.000283 U	<0.000312 U	<0.000397 U	<0.000275 U	<0.000301 U	<0.000351 U	<0.000261 U	<0.000276 U	<0.000252 U	<0.000259 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	NS	mg/kg	<0.000334 U	<0.000315 U	<0.000323 U	<0.000386 U	<0.000256 U	<0.000343 U	<0.000412 U	<0.000283 U	<0.000312 U	<0.000397 U	<0.000275 U	<0.000301 U	<0.000351 U	<0.000261 U	<0.000276 U	<0.000252 U	<0.000259 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	NS	mg/kg	<0.000334 U	<0.000315 U	<0.000323 U	<0.000386 U	<0.000256 U	<0.000343 U	<0.000412 U	<0.000283 U	<0.000312 U	<0.000397 U	<0.000275 U	<0.000301 U	<0.000351 U	<0.000261 U	<0.000276 U	<0.000252 U	<0.000259 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	NS	mg/kg	<0.000334 U	<0.000315 U	<0.000323 U	<0.000386 U	<0.000256 U	<0.000343 U	<0.000412 U	<0.000283 U	<0.000312 U	<0.000397 U	<0.000275 U	<0.000301 U	<0.000351 U	<0.000261 U	<0.000276 U	<0.000252 U	<0.000259 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	NS	mg/kg	<0.000334 U	<0.000315 U	<0.000323 U	<0.000386 U	<0.000256 U	<0.000343 U	<0.000412 U	<0.000283 U	<0.000312 U	<0.000397 U	<0.000275 U	<0.000301 U	<0.000351 U	<0.000261 U	<0.000276 U	<0.000252 U	<0.000259 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	NS	mg/kg	<0.000334 U	<0.000315 U	<0.000323 U	<0.000386 U	<0.000256 U	<0.000343 U	<0.000412 U	<0.000283 U	<0.000312 U	<0.000397 U	<0.000275 U	<0.000301 U	<0.000351 U	<0.000261 U	<0.000276 U	<0.000252 U	<0.000259 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.044	0.44	mg/kg	<0.000334 U	<0.000315 U	0.000388	<0.000386 U	<0.000256 U	0.000632	<0.000412 U	0.000826	**0.00107**	<0.000397 U	0.00062	**0.00152**	<0.000351 U	<0.000261 U	<0.000276 U	0.000336	<0.000259 U
Perfluorooctanoic Acid (PFOA)	335-67-1	0.00066	0.0011	0.033	0.5	mg/kg	<0.000334 U	0.000319	<0.000323 U	<0.000386 U	<0.000256 U	<0.000343 U	<0.000412 U	<0.000283 U	<0.000312 U	<0.000397 U	<0.000275 U	<0.000301 U	<0.000351 U	<0.000261 U	<0.000276 U	<0.000252 U	<0.000259 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	NS	mg/kg	<0.000334 U	<0.000315 U	<0.000323 U	<0.000386 U	<0.000256 U	<0.000343 U	<0.000412 U	<0.000283 U	<0.000312 U	<0.000397 U	<0.000275 U	<0.000301 U	<0.000351 U	<0.000261 U	<0.000276 U	<0.000252 U	<0.000259 U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	NS	mg/kg	<0.000334 U	<0.000315 U	<0.000323 U	<0.000386 U	<0.000256 U	<0.000343 U	<0.000412 U	<0.000283 U	<0.000312 U	<0.000397 U	<0.000275 U	<0.000301 U	<0.000351 U	<0.000261 U	<0.000276 U	<0.000252 U	<0.000259 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	NS	mg/kg	<0.000334 U	<0.000315 U	<0.000323 U	<0.000386 U	<0.000256 U	<0.000343 U	<0.000412 U	<0.000283 U	<0.000312 U	<0.000397 U	<0.000275 U	<0.000301 U	<0.000351 U	<0.000261 U	<0.000276 U	<0.000252 U	<0.000259 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	NS	mg/kg	<0.000334 U	<0.000315 U	<0.000323 U	<0.000386 U	<0.000256 U	<0.000343 U	<0.000412 U	<0.000283 U	<0.000312 U	<0.000397 U	0.000477	<0.000301 U	<0.000351 U	<0.000261 U	<0.000276 U	<0.000252 U	<0.000259 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2F1	39108-34-4	NS	NS	NS	NS	mg/kg	<0.000334 U	<0.000315 U	<0.000323 U	<0.000386 U	<0.000256 U	<0.000343 U	<0.000412 U	<0.000283 U	<0.000312 U	<0.000397 U	0.000473	<0.000301 U	<0.000351 U	<0.000261 U	<0.000276 U	<0.000252 U	<0.000259 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FT	27619-97-2	NS	NS	NS	NS	mg/kg	<0.000334 U	<0.000315 U	<0.000323 U	<0.000386 U	<0.000256 UJ	<0.000343 U	<0.000412 UJ	<0.000283 U	<0.000312 U	<0.000397 U	<0.000275 U	<0.000301 U	<0.000351 U	<0.000261 U	<0.000276 U	<0.000252 U	<0.000259 U

Notes provided on Page 16.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3C
Remedial Investigation Report
Soil Sample Analytical Results - Block 1824 (G)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	G-SB111	G-SB111	G-SB111	G-SB111	G-SB112	G-SB112	G-SB112	G-SB113	G-SB113	G-SB113	G-SB114	G-SB114	G-SB115	G-SB115	G-SB116	G-SB116	G-SB117
						Sample Name	G-SB111_0-2	DUP05_092321	G-SB111_5-7	G-SB111_9-11	G-SB112_0-2	G-SB112_4-6	G-SB112_9-11	G-SB113_0-2	G-SB113_4-6	G-SB113_10-12	G-SB114_0-2	G-SB114_6.5-8.5	G-SB115_0-2	G-SB115_5-7	G-SB116_0-2	G-SB116_8-10	G-SB117_0-2
						Sample Date	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/30/2021	09/30/2021	09/30/2021	09/30/2021	10/01/2021	10/01/2021	09/30/2021
						Sample Depth	0-2	0-2	5-7	9-11	0-2	4-6	9-11	0-2	4-6	10-12	0-2	6.5-8.5	0-2	5-7	0-2	8-10	0-2
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																							
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	500	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
1,1-Dichloroethane	75-34-3	0.27	0.27	26	240	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
1,1-Dichloroethene	75-35-4	0.33	0.33	100	500	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
1,2,4-Trimethylbenzene	95-63-6	**3.6**	3.6	52	190	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	500	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 UJ	<0.0023 U
1,2-Dichloroethane	107-06-2	0.02	0.02	3.1	30	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	**8.4**	8.4	52	190	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	280	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 UJ	<0.0023 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	130	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 UJ	<0.0023 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.052 U	<0.054 U	<0.063 U	<0.081 U	<0.048 U	<0.067 U	<0.067 U	<0.072 U	<0.047 U	<0.076 U	<0.05 U	<0.069 U	<0.045 U	<0.04 U	<0.04 U	<0.066 U	<0.047 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
Acetone	67-64-1	**0.05**	0.05	100	500	mg/kg	0.04 J	0.014 J	**0.17**	0.044	0.04	**0.068**	0.044	**0.14**	0.034	**0.058**	0.028	**0.064**	0.025	0.032	0.04	0.039	<0.0047 U
Acrolein	107-02-8	NS	NS	NS	NS	mg/kg	<0.0052 U	<0.0054 U	<0.0063 U	<0.0081 U	<0.0048 U	<0.0067 U	<0.0067 U	<0.0072 U	<0.0047 U	<0.0076 U	<0.005 U	<0.0069 U	<0.0045 U	<0.004 U	<0.004 U	<0.0066 U	<0.0047 U
Acrylonitrile	107-13-1	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
Benzene	71-43-2	**0.06**	0.06	4.8	44	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	0.0026 J	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
Bromochloromethane	74-97-5	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
Bromodichloromethane	75-27-4	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
Bromoform	75-25-2	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 UJ	<0.0034 UJ	<0.0023 UJ	<0.002 UJ	<0.002 U	<0.0033 UJ	<0.0023 UJ
Bromomethane	74-83-9	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 UJ	<0.0033 U	<0.0023 U
Carbon Disulfide	75-15-0	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0027 U	0.0037 J	0.0075 J	0.0025 J	<0.0033 U	<0.0033 U	<0.0036 U	0.0037 J	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
Carbon Tetrachloride	56-23-5	0.76	0.76	2.4	22	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
Chlorobenzene	108-90-7	1.1	1.1	100	500	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
Chloroethane	75-00-3	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
Chloroform	67-66-3	0.37	0.37	49	350	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
Chloromethane	74-87-3	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	100	500	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
Cyclohexane	110-82-7	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	0.012	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
Dibromochloromethane	124-48-1	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
Dibromomethane	74-95-3	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
Ethylbenzene	100-41-4	**1**	1	41	390	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 UJ	<0.0023 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	0.0055 J	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
M,P-Xylene	179601-23-1	NS	NS	NS	NS	mg/kg	<0.0052 U	<0.0054 U	<0.0063 U	<0.0081 U	<0.0048 U	<0.0067 U	<0.0067 U	<0.0072 U	<0.0047 U	<0.0076 U	<0.005 U	<0.0069 U	<0.0045 U	<0.004 U	<0.004 U	<0.0066 U	<0.0047 U
Methyl Acetate	79-20-9	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	0.0034 J	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	0.0041 J	<0.0023 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	0.12	0.12	100	500	mg/kg	0.0087	<0.0027 U	0.041	0.0075 J	0.0067	0.012	0.0082	0.034	0.0074	0.011	<0.0025 U	0.013	0.0037 J	0.0049	0.0073	0.0085	<0.0023 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
Methylcyclohexane	108-87-2	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	0.018	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
Methylene Chloride	75-09-2	0.05	0.05	100	500	mg/kg	<0.0052 U	<0.0054 U	<0.0063 U	0.025 J	<0.0048 U	<0.0067 U	0.016 J	<0.0072 U	<0.0047 U	<0.0076 U	<0.005 U	<0.0069 U	<0.0045 U	<0.0079 U	<0.004 U	<0.0066 U	<0.0047 U
n-Butylbenzene	104-51-8	12	12	100	500	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	0.018	<0.0023 U	<0.0038 U	<0.0025 UJ	<0.0034 UJ	<0.0023 UJ	<0.002 UJ	<0.002 UJ	<0.0033 U	<0.0023 UJ
n-Propylbenzene	103-65-1	**3.9**	3.9	100	500	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	0.02	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
Sec-Butylbenzene	135-98-8	11	11	100	500	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	0.0062 J	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
Styrene	100-42-5	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
T-Butylbenzene	98-06-6	5.9	5.9	100	500	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
Tert-Butyl Alcohol	75-65-0	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	0.0099	<0.0024 U	<0.0033 U	0.013	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	100	500	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	0.0039 J	<0.0036 U	<0.0023 U	0.0054 J	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	19	150	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 UJ	<0.0034 UJ	<0.0023 UJ	<0.002 UJ	<0.002 U	<0.0033 UJ	<0.0023 UJ
Toluene	108-88-3	0.7	0.7	100	500	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
Total Xylenes	1330-20-7	**0.26**	1.6	100	500	mg/kg	<0.0077 U	<0.0081 U	<0.0095 U	<0.012 U	<0.0072 U	<0.01 U	<0.01 U	<0.011 U	<0.007 U	<0.011 U	<0.0075 U	<0.01 U	<0.0068 U	<0.0059 U	<0.0059 U	<0.0098 U	<0.007 U
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	100	500	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
Trichloroethene (TCE)	79-01-6	0.47	0.47	21	200	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U
Vinyl Chloride	75-01-4	0.02	0.02	0.9	13	mg/kg	<0.0026 U	<0.0027 U	<0.0032 U	<0.004 U	<0.0024 U	<0.0033 U	<0.0033 U	<0.0036 U	<0.0023 U	<0.0038 U	<0.0025 U	<0.0034 U	<0.0023 U	<0.002 U	<0.002 U	<0.0033 U	<0.0023 U

Notes provided on Page 16.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3C
Remedial Investigation Report
Soil Sample Analytical Results - Block 1824 (G)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	G-SB111	G-SB111	G-SB111	G-SB111	G-SB112	G-SB112	G-SB112	G-SB113	G-SB113	G-SB113	G-SB114	G-SB114	G-SB115	G-SB115	G-SB116	G-SB116	G-SB117
						Sample Name	G-SB111_0-2	DUP05_092321	G-SB111_5-7	G-SB111_9-11	G-SB112_0-2	G-SB112_4-6	G-SB112_9-11	G-SB113_0-2	G-SB113_4-6	G-SB113_10-12	G-SB114_0-2	G-SB114_6.5-8.5	G-SB115_0-2	G-SB115_5-7	G-SB116_0-2	G-SB116_8-10	G-SB117_0-2
						Sample Date	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/30/2021	09/30/2021	09/30/2021	09/30/2021	10/01/2021	10/01/2021	09/30/2021
						Sample Depth	0-2	0-2	5-7	9-11	0-2	4-6	9-11	0-2	4-6	10-12	0-2	6.5-8.5	0-2	5-7	0-2	8-10	0-2
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																							
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	NS	mg/kg	<0.107 U	<0.102 U	<0.119 U	<0.142 U	<0.0942 U	<0.128 U	<0.129 U	<0.966 U	<0.095 U	<0.131 U	<0.0887 U	<0.138 U	<0.0897 U	<0.0964 U	<0.091 U	<0.133 U	<0.0991 U
1,2-Diphenylhydrazine	122-66-7	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.0196 U	<0.019 U	<0.0194 U	<0.0196 U	<0.0194 U	<0.0194 U	<0.019 U	<0.0185 U	<0.0196 U	<0.0192 U	<0.0194 U	<0.0196 U	<0.0196 U	<0.0187 U	<0.0196 U	<0.0194 U	<0.0189 U
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	NS	mg/kg	<0.107 U	<0.102 U	<0.119 U	<0.142 U	<0.0942 U	<0.128 U	<0.129 U	<0.966 U	<0.095 U	<0.131 U	<0.0887 U	<0.138 U	<0.0897 U	<0.0964 U	<0.091 U	<0.133 U	<0.0991 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	NS	mg/kg	<0.107 U	<0.102 U	<0.119 U	<0.142 U	<0.0942 U	<0.128 U	<0.129 U	<0.966 U	<0.095 U	<0.131 U	<0.0887 U	<0.138 U	<0.0897 U	<0.0964 U	<0.091 U	<0.133 U	<0.0991 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
2-Chlorophenol	95-57-8	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	0.126 D	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	0.209 D	<0.0483 U	<0.0456 U	<0.0666 U	0.0951 JD
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	500	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
2-Nitroaniline	88-74-4	NS	NS	NS	NS	mg/kg	<0.107 U	<0.102 U	<0.119 U	<0.142 U	<0.0942 U	<0.128 U	<0.129 U	<0.966 U	<0.095 U	<0.131 U	<0.0887 U	<0.138 U	<0.0897 U	<0.0964 U	<0.091 U	<0.133 U	<0.0991 U
2-Nitrophenol	88-75-5	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	0.33	0.33	100	500	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	0.26 D	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
3-Nitroaniline	99-09-2	NS	NS	NS	NS	mg/kg	<0.107 U	<0.102 U	<0.119 U	<0.142 U	<0.0942 U	<0.128 U	<0.129 U	<0.966 U	<0.095 U	<0.131 U	<0.0887 U	<0.138 U	<0.0897 U	<0.0964 U	<0.091 U	<0.133 U	<0.0991 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	NS	mg/kg	<0.107 U	<0.102 U	<0.119 U	<0.142 U	<0.0942 U	<0.128 U	<0.129 U	<0.966 U	<0.095 U	<0.131 U	<0.0887 U	<0.138 U	<0.0897 U	<0.0964 U	<0.091 U	<0.133 U	<0.0991 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
4-Chloroaniline	106-47-8	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
4-Nitroaniline	100-01-6	NS	NS	NS	NS	mg/kg	<0.107 U	<0.102 U	<0.119 U	<0.142 U	<0.0942 U	<0.128 U	<0.129 U	<0.966 U	<0.095 U	<0.131 U	<0.0887 U	<0.138 U	<0.0897 U	<0.0964 U	<0.091 U	<0.133 U	<0.0991 U
4-Nitrophenol	100-02-7	NS	NS	NS	NS	mg/kg	<0.107 U	<0.102 U	<0.119 U	<0.142 U	<0.0942 U	<0.128 U	<0.129 U	<0.966 U	<0.095 U	<0.131 U	<0.0887 U	<0.138 U	<0.0897 U	<0.0964 U	<0.091 U	<0.133 U	<0.0991 U
Acenaphthene	83-32-9	20	98	100	500	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	0.258 D	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	0.0638 JD	<0.0483 U	<0.0456 U	<0.0666 U	0.425 D
Acenaphthylene	208-96-8	100	107	100	500	mg/kg	0.109 D	0.138 D	0.147 D	<0.071 U	0.444 D	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	0.0482 JD	0.12 JD	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	0.099 JD
Acetophenone	98-86-2	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	NS	NS	NS	mg/kg	<0.214 U	<0.204 U	<0.238 U	<0.284 U	<0.189 U	<0.257 U	<0.258 U	<1.93 U	<0.19 U	<0.262 U	<0.178 U	<0.276 U	<0.18 U	<0.193 U	<0.182 U	<0.266 U	<0.198 U
Anthracene	120-12-7	100	1000	100	500	mg/kg	0.144 D	0.252 D	0.693 D	<0.071 U	0.965 D	0.14 D	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	0.0752 JD	0.454 D	0.0818 JD	0.0871 JD	<0.0456 U	<0.0666 U	1.12 D
Atrazine	1912-24-9	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
Benzaldehyde	100-52-7	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	0.077 J	<0.071 U	0.129 J	0.084 J	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	0.114 D
Benzidine	92-87-5	NS	NS	NS	NS	mg/kg	<0.214 U	<0.204 U	<0.238 U	<0.284 U	<0.189 U	<0.257 U	<0.258 U	<1.93 U	<0.19 U	<0.262 U	<0.178 U	<0.276 U	<0.18 U	<0.193 U	<0.182 U	<0.266 U	<0.198 U
Benzo(a)anthracene	56-55-3	**1**	1	1	5.6	mg/kg	0.5 J	**1.16 J**	**2.23 D**	<0.071 U	**2.74 D**	0.363 D	<0.0645 U	<0.484 U	0.0812 JD	<0.0656 U	0.206 D	**2.05 D**	0.137 D	0.223 D	<0.0456 U	0.0924 JD	**2.49 D**
Benzo(a)pyrene	50-32-8	**1**	22	1	1	mg/kg	0.607 J	**1.23 J**	**1.75 D**	<0.071 U	**4.67 D**	0.343 D	<0.0645 U	0.594 JD	0.0873 JD	<0.0656 U	0.26 D	**2.01 D**	0.164 D	0.247 D	0.0567 JD	0.127 JD	**2.74 D**
Benzo(b)fluoranthene	205-99-2	**1**	1.7	1	5.6	mg/kg	0.555 J	**1.22 J**	**1.51 D**	<0.071 U	**3.84 D**	0.278 D	<0.0645 U	<0.484 U	0.0699 JD	<0.0656 U	0.25 D	**1.52 D**	0.156 D	0.189 D	<0.0456 U	0.112 JD	**2.13 D**
Benzo(g,h,i)Perylene	191-24-2	100	1000	100	500	mg/kg	0.474 J	0.876 J	1.04 D	<0.071 U	2.1 D	0.245 D	<0.0645 U	<0.484 U	0.0699 JD	<0.0656 U	0.191 D	0.801 D	0.0997 D	0.123 D	0.0786 JD	0.11 JD	2.02 D
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	3.9	56	mg/kg	0.417 J	**1.14 J**	**1.39 D**	<0.071 U	**2.23 D**	0.227 D	<0.0645 U	<0.484 U	0.0729 JD	<0.0656 U	0.193 D	**1.35 D**	0.124 D	0.152 D	<0.0456 U	0.104 JD	**1.91 D**
Benzoic Acid	65-85-0	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
Benzyl Alcohol	100-51-6	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	4.82 JD	0.845 D	<0.0656 U	0.262 D	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
Caprolactam	105-60-2	NS	NS	NS	NS	mg/kg	<0.107 U	<0.102 U	<0.119 U	<0.142 U	<0.0942 U	<0.128 U	<0.129 U	<0.966 U	<0.095 U	<0.131 U	<0.0887 U	<0.138 U	<0.0897 U	<0.0964 U	<0.091 U	<0.133 U	<0.0991 U
Carbazole	86-74-8	NS	NS	NS	NS	mg/kg	<0.0536 U	0.109 D	0.14 D	<0.071 U	0.179 D	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	0.0693 JD	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	0.444 D
Chrysene	218-01-9	**1**	1	3.9	56	mg/kg	0.512 J	**1.32 J**	**2.18 D**	<0.071 U	**2.87 D**	0.33 D	<0.0645 U	<0.484 U	0.0881 JD	<0.0656 U	0.197 D	**1.53 D**	0.151 D	0.185 D	0.0524 JD	0.101 JD	**2.16 D**
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.33	0.56	mg/kg	0.139 D	0.315 D	**0.427 D**	<0.071 U	**0.753 D**	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	0.0575 JD	**0.333 D**	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	**0.471 D**
Dibenzofuran	132-64-9	7	210	59	350	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	0.206 D	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	0.209 D
Dibutyl phthalate	84-74-2	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
Diethyl phthalate	84-66-2	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
Dimethyl phthalate	131-11-3	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
Dioctyl phthalate	117-84-0	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
Diphenylamine	122-39-4	NS	NS	NS	NS	mg/kg	<0.107 U	<0.102 U	<0.119 U	<0.142 U	<0.0942 U	<0.128 U	<0.129 U	<0.966 U	<0.095 U	<0.131 U	<0.0887 U	<0.138 U	<0.0897 U	<0.0964 U	<0.091 U	<0.133 U	<0.0991 U
Fluoranthene	206-44-0	100	1000	100	500	mg/kg	0.913 J	2.28 J	3.99 D	<0.071 U	5.23 D	0.698 D	<0.0645 U	0.509 JD	0.138 D	<0.0656 U	0.448 D	4.84 D	0.273 D	0.418 D	0.048 JD	0.126 JD	4.88 D
Fluorene	86-73-7	30	386	100	500	mg/kg	<0.0536 U	0.0718 JD	0.16 D	<0.071 U	0.342 D	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	0.0759 JD	0.0854 JD	0.0532 JD	<0.0456 U	<0.0666 U	0.475 D
Hexachlorobenzene	118-74-1	0.33	3.2	1.2	6	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
Hexachloroethane	67-72-1	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	0.5	5.6	mg/kg	**0.616 D**	**0.953 D**	**1.18 D**	<0.071 U	**2.49 D**	0.266 D	<0.0645 U	<0.484 U	0.0486 JD	<0.0656 U	0.223 D	**1.18 D**	0.127 D	0.156 D	0.0458 JD	0.123 JD	**1.83 D**
Isophorone	78-59-1	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
Naphthalene	91-20-3	12	12	100	500	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	0.218 D	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	0.0574 JD	<0.0483 U	<0.0456 U	<0.0666 U	0.176 D
Nitrobenzene	98-95-3	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
n-Nitrosodimethylamine	62-75-9	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	NS	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	6.7	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	<0.069 U	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
Phenanthrene	85-01-8	100	1000	100	500	mg/kg	0.375 J	0.869 J	2.88 D	<0.071 U	2.76 D	0.461 D	<0.0645 U	<0.484 U	0.0638 JD	<0.0656 U	0.195 D	0.575 D	0.233 D	0.296 D	<0.0456 U	0.0967 JD	3.56 D
Phenol	108-95-2	**0.33**	0.33	100	500	mg/kg	<0.0536 U	<0.0511 U	<0.0596 U	<0.071 U	<0.0472 U	<0.0643 U	<0.0645 U	<0.484 U	<0.0476 U	<0.0656 U	<0.0445 U	**0.508 D**	<0.045 U	<0.0483 U	<0.0456 U	<0.0666 U	<0.0497 U
Pyrene	129-00-0	100	1000	100	500	mg/kg	0.781 J	2.34 J	4.47 D	<0.071 U	4.73 D	0.749 D	<0.0645 U	0.726 JD	0.203 D	<0.0656 U	0.465 D	5.75 D	0.318 D	0.549 D	0.0822 JD	0.127 JD	4.73 D
Pyridine	110-86-1	NS	NS	NS	NS	mg/kg	<0.214 U	<0.204 U	<0.238 U	<0.284 U	<0.189 U	<0.257 U	<0.258 U	<1.93 U	<0.19 U	<0.262 U	<0.178 U	<0.276 U	<0.18 U	<0.193 U	<0.182 U	<0.266 U	<0.198 U

Notes provided on Page 16.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3C
Remedial Investigation Report
Soil Sample Analytical Results - Block 1824 (G)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	G-SB111	G-SB111	G-SB111	G-SB111	G-SB112	G-SB112	G-SB112	G-SB113	G-SB113	G-SB113	G-SB114	G-SB114	G-SB115	G-SB115	G-SB116	G-SB116	G-SB117
						Sample Name	G-SB111_0-2	DUP05_092321	G-SB111_5-7	G-SB111_9-11	G-SB112_0-2	G-SB112_4-6	G-SB112_9-11	G-SB113_0-2	G-SB113_4-6	G-SB113_10-12	G-SB114_0-2	G-SB114_6.5-8.5	G-SB115_0-2	G-SB115_5-7	G-SB116_0-2	G-SB116_8-10	G-SB117_0-2
						Sample Date	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/30/2021	09/30/2021	09/30/2021	09/30/2021	10/01/2021	10/01/2021	09/30/2021
						Sample Depth	0-2	0-2	5-7	9-11	0-2	4-6	9-11	0-2	4-6	10-12	0-2	6.5-8.5	0-2	5-7	0-2	8-10	0-2
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Petroleum Hydrocarbons																							
Total Petroleum Hydrocarbons	TPH	NS	NS	NS	NS	UNKNOWN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides																							
4,4'-DDD	72-54-8	**0.0033**	14	13	92	mg/kg	<0.00211 U	<0.00203 U	<0.00237 U	<0.0028 U	<0.00185 U	<0.00255 U	<0.00258 U	**0.00455 J**	<0.00185 U	<0.00263 U	<0.00177 UJ	<0.00272 U	<0.00178 U	<0.00191 U	**0.00582 D**	<0.00259 U	<0.00196 U
4,4'-DDE	72-55-9	**0.0033**	17	8.9	62	mg/kg	<0.00211 U	<0.00203 U	<0.00237 U	<0.0028 U	<0.00185 U	<0.00255 U	<0.00258 U	<0.00191 UJ	<0.00185 U	<0.00263 U	<0.00177 UJ	<0.00272 U	<0.00178 U	<0.00191 U	<0.00178 U	<0.00259 U	**0.0161 D**
4,4'-DDT	50-29-3	**0.0033**	136	7.9	47	mg/kg	<0.00211 U	<0.00203 U	<0.00237 U	<0.0028 U	<0.00185 U	<0.00255 U	<0.00258 U	**0.0173 J**	<0.00185 U	<0.00263 U	<0.00177 UJ	<0.00272 U	<0.00178 U	<0.00191 U	<0.00178 U	<0.00259 U	**0.0614 D**
Aldrin	309-00-2	0.005	0.19	0.097	0.68	mg/kg	<0.00211 U	<0.00203 U	<0.00237 U	<0.0028 U	<0.00185 U	<0.00255 U	<0.00258 U	<0.00191 UJ	<0.00185 U	<0.00263 U	<0.00177 UJ	<0.00272 U	<0.00178 U	<0.00191 U	<0.00178 U	<0.00259 U	<0.00196 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	0.48	3.4	mg/kg	<0.00211 U	<0.00203 U	<0.00237 U	<0.0028 U	<0.00185 U	<0.00255 U	<0.00258 U	<0.00191 UJ	<0.00185 U	<0.00263 U	<0.00177 UJ	<0.00272 U	<0.00178 U	<0.00191 U	<0.00178 U	<0.00259 U	<0.00196 U
Alpha Chlordane	5103-71-9	0.094	2.9	4.2	24	mg/kg	<0.00211 U	<0.00203 U	<0.00237 U	<0.0028 U	<0.00185 U	<0.00255 U	<0.00258 U	<0.00191 UJ	<0.00185 U	<0.00263 U	<0.00177 UJ	<0.00272 U	<0.00178 U	<0.00191 U	<0.00178 U	<0.00259 U	<0.00196 U
Alpha Endosulfan	959-98-8	2.4	102	24	200	mg/kg	<0.00211 U	<0.00203 U	<0.00237 U	<0.0028 U	<0.00185 U	<0.00255 U	<0.00258 U	<0.00191 UJ	<0.00185 U	<0.00263 U	<0.00177 UJ	<0.00272 U	<0.00178 U	<0.00191 U	<0.00178 U	<0.00259 U	<0.00196 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	0.36	3	mg/kg	<0.00211 U	<0.00203 U	<0.00237 U	<0.0028 U	<0.00185 U	<0.00255 U	<0.00258 U	<0.00191 UJ	<0.00185 U	<0.00263 U	<0.00177 UJ	<0.00272 U	<0.00178 U	<0.00191 U	<0.00178 U	<0.00259 U	<0.00196 U
Beta Endosulfan	33213-65-9	2.4	102	24	200	mg/kg	<0.00211 U	<0.00203 U	<0.00237 U	<0.0028 U	<0.00185 U	<0.00255 U	<0.00258 U	<0.00191 UJ	<0.00185 U	<0.00263 U	<0.00177 UJ	<0.00272 U	<0.00178 U	<0.00191 U	<0.00178 U	<0.00259 U	<0.00196 U
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	NS	mg/kg	<0.0422 U	<0.0406 U	<0.0474 U	<0.0561 U	<0.037 U	<0.0511 U	<0.0516 U	<0.0382 UJ	<0.0371 U	<0.0526 U	<0.0353 UJ	<0.0545 U	<0.0355 U	<0.0383 U	<0.0357 U	<0.0519 U	<0.0392 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	100	500	mg/kg	<0.00211 U	<0.00203 U	<0.00237 U	<0.0028 U	<0.00185 U	<0.00255 U	<0.00258 U	<0.00191 UJ	<0.00185 U	<0.00263 U	<0.00177 UJ	<0.00272 U	<0.00178 U	<0.00191 U	<0.00178 U	<0.00259 U	<0.00196 U
Dieldrin	60-57-1	0.005	0.1	0.2	1.4	mg/kg	<0.00211 U	<0.00203 U	<0.00237 U	<0.0028 U	<0.00185 U	<0.00255 U	<0.00258 U	<0.00191 UJ	<0.00185 U	<0.00263 U	<0.00177 UJ	<0.00272 U	<0.00178 U	<0.00191 U	<0.00178 U	<0.00259 U	<0.00196 U
Endosulfan Sulfate	1031-07-8	2.4	1000	24	200	mg/kg	0.0023 D	<0.00203 U	<0.00237 U	<0.0028 U	<0.00185 U	<0.00255 U	<0.00258 U	<0.00191 UJ	<0.00185 U	<0.00263 U	<0.00177 UJ	<0.00272 U	<0.00178 U	<0.00191 U	<0.00178 U	<0.00259 U	<0.00196 U
Endrin	72-20-8	**0.014**	0.06	11	89	mg/kg	**0.035 J**	<0.00203 UJ	<0.00237 U	<0.0028 U	<0.00185 U	<0.00255 U	<0.00258 U	<0.00191 UJ	<0.00185 U	<0.00263 U	<0.00177 UJ	<0.00272 U	<0.00178 U	<0.00191 U	<0.00178 U	<0.00259 U	<0.00196 U
Endrin Aldehyde	7421-93-4	NS	NS	NS	NS	mg/kg	<0.00211 U	<0.00203 U	<0.00237 U	<0.0028 U	<0.00185 U	<0.00255 U	<0.00258 U	<0.00191 UJ	<0.00185 U	<0.00263 U	<0.00177 UJ	<0.00272 U	<0.00178 U	<0.00191 U	<0.00178 U	<0.00259 U	<0.00196 U
Endrin Ketone	53494-70-5	NS	NS	NS	NS	mg/kg	0.0026 D	<0.00203 U	<0.00237 U	<0.0028 U	<0.00185 U	<0.00255 U	<0.00258 U	<0.00191 UJ	<0.00185 U	<0.00263 U	<0.00177 UJ	<0.00272 U	<0.00178 U	<0.00191 U	<0.00178 U	<0.00259 U	<0.00196 U
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	1.3	9.2	mg/kg	<0.00211 U	<0.00203 U	<0.00237 U	<0.0028 U	<0.00185 U	<0.00255 U	<0.00258 U	<0.00191 UJ	<0.00185 U	<0.00263 U	<0.00177 UJ	<0.00272 U	<0.00178 U	<0.00191 U	<0.00178 U	<0.00259 U	<0.00196 U
Gamma-Chlordane	5566-34-7	NS	NS	NS	NS	mg/kg	0.00828 J	<0.00203 UJ	<0.00237 U	<0.0028 U	<0.00185 U	<0.00255 U	<0.00258 U	<0.00191 UJ	<0.00185 U	<0.00263 U	<0.00177 UJ	<0.00272 U	<0.00178 U	<0.00191 U	<0.00178 U	<0.00259 U	<0.00196 U
Heptachlor	76-44-8	0.042	0.38	2.1	15	mg/kg	<0.00211 U	<0.00203 U	<0.00237 U	<0.0028 U	<0.00185 U	<0.00255 U	<0.00258 U	<0.00191 UJ	<0.00185 U	<0.00263 U	<0.00177 UJ	<0.00272 U	<0.00178 U	<0.00191 U	<0.00178 U	<0.00259 U	<0.00196 U
Heptachlor Epoxide	1024-57-3	NS	NS	NS	NS	mg/kg	<0.00211 U	<0.00203 U	<0.00237 U	<0.0028 U	<0.00185 U	<0.00255 U	<0.00258 U	<0.00191 UJ	<0.00185 U	<0.00263 U	<0.00177 UJ	<0.00272 U	<0.00178 U	<0.00191 U	<0.00178 U	<0.00259 U	<0.00196 U
Methoxychlor	72-43-5	NS	NS	NS	NS	mg/kg	<0.00211 U	<0.00203 U	<0.00237 U	<0.0028 U	<0.00185 U	<0.00255 U	<0.00258 U	<0.00191 UJ	<0.00185 U	<0.00263 U	<0.00177 UJ	<0.00272 U	<0.00178 U	<0.00191 U	<0.00178 U	<0.00259 U	<0.00196 U
Toxaphene	8001-35-2	NS	NS	NS	NS	mg/kg	<0.211 U	<0.203 U	<0.237 U	<0.28 U	<0.185 U	<0.255 U	<0.258 U	<0.191 UJ	<0.185 U	<0.263 U	<0.177 UJ	<0.272 U	<0.178 U	<0.191 U	<0.178 U	<0.259 U	<0.196 U
Herbicides																							
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	NS	mg/kg	<0.0257 U	<0.0248 U	<0.0289 U	<0.0343 U	<0.0226 U	<0.031 U	<0.0315 U	<0.0232 U	<0.0228 U	<0.0319 U	<0.0214 U	<0.0328 U	<0.0214 U	<0.023 U	<0.0181 U	<0.0266 U	<0.0236 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	NS	mg/kg	<0.0257 U	<0.0248 U	<0.0289 U	<0.0343 U	<0.0226 U	<0.031 U	<0.0315 U	<0.0232 U	<0.0228 U	<0.0319 U	<0.0214 U	<0.0328 U	<0.0214 U	<0.023 U	<0.0181 U	<0.0266 U	<0.0236 U
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	100	500	mg/kg	<0.0257 U	<0.0248 U	<0.0289 U	<0.0343 U	<0.0226 U	<0.031 U	<0.0315 U	<0.0232 U	<0.0228 U	<0.0319 U	<0.0214 U	<0.0328 U	<0.0214 U	<0.023 U	<0.0181 U	<0.0266 U	<0.0236 U
Polychlorinated Biphenyl																							
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	NS	mg/kg	<0.0213 U	<0.0205 U	<0.0239 UJ	<0.0283 U	<0.0187 U	<0.0258 UJ	<0.026 UJ	<0.0193 UJ	<0.0187 U	<0.0266 UJ	<0.0178 U	<0.0275 U	<0.0179 U	<0.0193 U	<0.018 U	<0.0262 U	<0.0198 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	NS	mg/kg	<0.0213 U	<0.0205 U	<0.0239 UJ	<0.0283 U	<0.0187 U	<0.0258 UJ	<0.026 UJ	<0.0193 UJ	<0.0187 U	<0.0266 UJ	<0.0178 U	<0.0275 U	<0.0179 U	<0.0193 U	<0.018 U	<0.0262 U	<0.0198 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	NS	mg/kg	<0.0213 U	<0.0205 U	<0.0239 UJ	<0.0283 U	<0.0187 U	<0.0258 UJ	<0.026 UJ	<0.0193 UJ	<0.0187 U	<0.0266 UJ	<0.0178 U	<0.0275 U	<0.0179 U	<0.0193 U	<0.018 U	<0.0262 U	<0.0198 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	NS	mg/kg	<0.0213 U	<0.0205 U	<0.0239 UJ	<0.0283 U	<0.0187 U	<0.0258 UJ	<0.026 UJ	<0.0193 UJ	<0.0187 U	<0.0266 UJ	<0.0178 U	<0.0275 U	<0.0179 U	<0.0193 U	<0.018 U	<0.0262 U	<0.0198 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	NS	mg/kg	<0.0213 U	<0.0205 U	<0.0239 UJ	<0.0283 U	<0.0187 U	<0.0258 UJ	<0.026 UJ	<0.0193 UJ	<0.0187 U	<0.0266 UJ	<0.0178 U	<0.0275 U	<0.0179 U	<0.0193 U	<0.018 U	<0.0262 U	<0.0198 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	NS	mg/kg	<0.0213 U	<0.0205 U	<0.0239 UJ	<0.0283 U	<0.0187 U	<0.0258 UJ	<0.026 UJ	<0.0193 UJ	<0.0187 U	<0.0266 UJ	<0.0178 U	<0.0275 U	<0.0179 U	<0.0193 U	<0.018 U	<0.0262 U	0.147
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	NS	mg/kg	<0.0213 U	0.0225	<0.0239 UJ	<0.0283 U	0.0316	<0.0258 UJ	<0.026 UJ	0.0244 J	<0.0187 U	<0.0266 UJ	0.413	<0.0275 U	0.0212	<0.0193 U	0.0516	<0.0262 U	<0.0198 U
Total PCBs	1336-36-3	**0.1**	3.2	1	1	mg/kg	<0.0213 U	0.0225	<0.0239 UJ	<0.0283 U	0.0316	<0.0258 UJ	<0.026 UJ	0.0244 J	<0.0187 U	<0.0266 UJ	**0.413**	<0.0275 U	0.0212	<0.0193 U	0.0516	<0.0262 U	**0.147**
Metals																							
Aluminum	7429-90-5	NS	NS	NS	NS	mg/kg	7,060 J	7,510	5,560	21,900	6,290	5,830	18,600	5,280	6,270	21,200	6,470	4,170	7,120	12,000	6,220	5,650	8,240
Antimony	7440-36-0	NS	NS	NS	NS	mg/kg	<3.23 UJ	<3.12 U	<3.64 U	<4.32 U	<2.84 U	<3.89 U	<3.96 U	<2.91 U	<2.87 U	<4.01 U	<2.7 U	12.4	3.62	3.96	<2.75 U	<4.01 U	55.6
Arsenic	7440-38-2	**13**	16	16	16	mg/kg	9.34	9.27	13	6.95	9.94	6.48	5.35	6.78	<1.72 U	<2.41 U	5.1	12.7	<1.62 U	<1.75 U	<1.65 U	9.06	5.41
Barium	7440-39-3	**350**	820	400	400	mg/kg	**550 J**	**740**	**682**	69.6	196	**395**	54	**385**	84.8	108	121	**1,890**	104	113	52.3	340	**1,050**
Beryllium	7440-41-7	7.2	47	72	590	mg/kg	<0.065 U	<0.062 U	<0.073 U	<0.086 U	<0.057 U	0.293	<0.079 U	<0.058 U	<0.057 U	<0.08 U	<0.054 U	<0.083 U	<0.054 U	<0.058 U	<0.055 U	<0.08 U	<0.06 U
Cadmium	7440-43-9	**2.5**	7.5	4.3	9.3	mg/kg	**4.52 J**	2.05 J	**2.81**	0.606	**4.4**	1.27	<0.475 U	1.72	<0.344 U	<0.481 U	**3.44**	**8.51**	0.637	<0.35 U	0.473	1.32	2.04
Calcium	7440-70-2	NS	NS	NS	NS	mg/kg	15,700 J	28,600 J	10,700	4,610	18,900 B	8,860 B	4,490 B	12,000 B	2,070 B	3,220 B	53,000 B	24,500 B	9,210 B	1,520 B	4,990	28,000	28,100
Chromium, Hexavalent	18540-29-9	1	19	110	400	mg/kg	<0.646 UJ	<0.624 U	<0.727 U	<0.864 U	<0.568 U	<0.779 U	<0.792 U	<0.583 U	<0.573 U	<0.802 U	<0.539 U	<0.831 U	<0.542 U	<0.584 U	<0.549 U	<0.802 U	<0.598 U
Chromium, Total	7440-47-3	NS	NS	NS	NS	mg/kg	24.7	28	25.6	41.6	38.6	23.2	35.6	137	17.6	37.5	25.8	48.8	20.5	21.9	12.7	19	31.8
Chromium, Trivalent	16065-83-1	**30**	NS	180	1500	mg/kg	24.7	28	25.6	**41.6**	**38.6**	23.2	**35.6**	**137**	17.6	**37.5**	25.8	**48.8**	20.5	21.9	12.7	19	**31.8**
Cobalt	7440-48-4	NS	NS	NS	NS	mg/kg	8.15	7.96	7.27	14.1	7.33	7.36	12.6	8.08	8.5	13.2	7.08	9.16	7.86	8.88	5.16	4.65	8.38
Copper	7440-50-8	**50**	1720	270	270	mg/kg	**259 J**	**242**	**419**	19.1	**2,310**	**1,910**	15.3	**195**	14.7	27	**1,130**	**159**	33.6	22.9	19.8	**138**	**239**
Cyanide	57-12-5	27	40	27	27	mg/kg	<0.646 U	<0.624 U	8.19	<0.864 U	<0.568 U	<0.779 U	<0.792 U	1.01	<0.573 U	<0.802 U	<0.539 U	<0.831 U	<0.542 U	<0.584 U	<0.549 U	<0.802 U	<0.598 U
Iron	7439-89-6	NS	NS	NS	NS	mg/kg	56,800 J	23,200 J	54,800	37,700	20,800	24,400	34,000	25,800	19,400	28,900	32,200	36,500	16,300	19,400	11,700	15,800	36,000
Lead	7439-92-1	**63**	450	400	1000	mg/kg	**787 J**	**886**	**1,210**	30.3	**1,100**	**823**	15.7	**544**	30.9	24.4	**317**	**2,170**	39.6	54.5	**84.6**	**883**	**17,500**
Magnesium	7439-95-4	NS	NS	NS	NS	mg/kg	2,400 J	6,050 J	1,060	9,200	6,210	986	8,520	1,930	2,380	7,790	12,700	3,900	4,290	3,540	2,480	10,000	2,550
Manganese	7439-96-5	**1600**	2000	2000	10000	mg/kg	262 J	236	411	931	207	192	887	276	228	490	370	406	185	369	222	198	346
Mercury	7439-97-6	**0.18**	0.73	0.81	2.8	mg/kg	**0.93 J**	**1.51**	**3.41**	0.0917	**0.21**	**1.68**	0.132	0.169	<0.0344 U	0.138	0.0631	**0.776**	0.0521	<0.035 U	0.0494	**2.66**	**0.497**
Nickel	7440-02-0	**30**	130	310	310	mg/kg	21.4 J	23.6	15.6	23.2	27.3	**33.6**	**37.7**	**40.7**	19.4	**36.5**	26.4	21.2	15.1	10.5	11.6 J	15.5 J	26.6 J
Potassium	7440-09-7	NS	NS	NS	NS	mg/kg	577 J	696 B	718 B	5,190 B	657	635	4,180	541	2,130	4,240	1,370 B	494 B	1,410 B	1,250 B	621	704	1,040
Selenium	7782-49-2	**3.9**	4	180	1500	mg/kg	<3.23 UJ	<3.12 UJ	<3.64 UJ	<4.32 UJ	<2.84 U	<3.89 U	<3.96 U	<2.91 U	<2.87 U	<4.01 U	<2.7 U	<4.15 U	<2.71 U	<2.92 U	<2.75 U	**4.66**	<2.99 U
Silver	7440-22-4	**2**	8.3	180	1500	mg/kg	1.37	0.766	<0.727 U	<0.864 U	**7.74**	<0.779 U	<0.792 U	<0.583 U	<0.573 U	<0.802 U	<0.539 U	<0.831 U	<0.542 U	<0.584 U	<0.549 U	<0.802 U	<0.598 U
Sodium	7440-23-5	NS	NS	NS	NS	mg/kg	233 J	273	435	3,850	206	441	4,100	241	60.4	2,500	272	188	206	174	96.6	223	132
Thallium	7440-28-0	NS	NS	NS	NS	mg/kg	<3.23 U	<3.12 U	<3.64 U	<4.32 U	<2.84 U	<3.89 U	<3.96 U	<2.91 U	<2.87 U	<4.01 U	<2.7 U	<4.15 U	<2.71 U	<2.92 U	<2.75 U	<4.01 U	<2.99 U
Vanadium	7440-62-2	NS	NS	NS	NS	mg/kg	30.2	35.7	21.9	49.6	34.3	25.3	42.6	26.2	25.5	43.7	34.6	26.2	44.6	37.8	20.4	23.1	35.6
Zinc	7440-66-6	**109**	2480	10000	10000	mg/kg	**980 J**	**833**	**913**	91.5	**673**	**622**	75.5	**885**	54.4	72	**243 B**	**3,880 B**	89.5 B	63.6 B	71.4	**592**	**890**
General Chemistry																							
Solids, Percent	SOLID	NS	NS	NS	NS	Percent	77.4	80.1	68.8	57.9	88	64.2	63.1	85.8	87.2	62.3	92.8	60.2	92.3	85.7	91	62.3	83.6
Perfluorooctanoic acids																							
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA	2991-50-6	NS	NS	NS	NS	mg/kg	<0.000315 U	<0.00031 U	<0.000342 U	<0.000343 U	<0.000258 U	<0.00038 U	<0.000389 U	<0.000287 U	<0.000279 U	<0.000349 U	<0.000251 U	<0.000404 U	<0.000253 U	<0.000273 U	<0.000245 U	<0.000358 U	<0.000292 U
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOS	2355-31-9	NS	NS	NS	NS	mg/kg	<0.000315 U	<0.00031 U	<0.000342 U	<0.000343 U	<0.000258 U	<0.00038 U	<0.000389 U	<0.000287 U	<0.000279 U	<0.000349 U	<0.000251 U	<0.000404 U	<0.000253 U	<0.000273 U	<0.000245 U	<0.000358 U	<0.000292 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	NS	mg/kg	<0.000315 U	<0.00031 U	<0.000342 U	<0.000343 U	<0.000258 U	<0.00038 U	<0.000389 U	<0.000287 U	<0.000279 U	<0.000349 U	<0.000251 U	<0.000404 U	<0.000253 U	<0.000273 U	<0.000245 U	<0.000358 U	<0.000292 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	NS	mg/kg	0.000735	<0.00031 U	0.00102	<0.000343 U	<0.000258 U	<0.00038 U	<0.000389 U	<0.000287 U	<0.000279 U	<0.000349 U	<0.000251 U	0.0068	<0.000253 U	<0.000273 U	<0.000245 U	<0.000358 U	<0.000292 U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	NS	mg/kg	<0.000315 U	<0.00031 U	<0.000342 U	<0.000343 U	<0.000258 U	<0.00038 U	<0.000389 U	<0.000287 U	<0.000279 U	<0.000349 U	<0.000251 U	<0.000404 U	<0.000253 U	<0.000273 U	<0.000245 U	<0.000358 U	<0.000292 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	NS	mg/kg	<0.000315 U	<0.00031 U	<0.000342 U	<0.000343 U	<0.000258 U	<0.00038 U	<0.000389 U	<0.000287 U	<0.000279 U	<0.000349 U	<0.000251 U	<0.000404 U	<0.000253 U	<0.000273 U	<0.000245 U	<0.000358 U	<0.000292 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	NS	mg/kg	<0.000315 U	<0.00031 U	<0.000342 U	<0.000343 U	<0.000258 U	<0.00038 U	<0.000389 U	<0.000287 U	<0.000279 U	<0.000349 U	<0.000251 U	<0.000404 U	<0.000253 U	<0.000273 U	<0.000245 U	<0.000358 U	<0.000292 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	NS	mg/kg	<0.000315 U	<0.00031 U	<0.000342 U	<0.000343 U	<0.000258 U	<0.00038 U	<0.000389 U	<0.000287 U	<0.000279 U	<0.000349 U	<0.000251 U	<0.000404 U	<0.000253 U	<0.000273 U	<0.000245 U	<0.000358 U	<0.000292 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	NS	mg/kg	<0.000315 U	<0.00031 U	<0.000342 U	<0.000343 U	<0.000258 U	<0.00038 U	<0.000389 U	<0.000287 U	<0.000279 U	<0.000349 U	<0.000251 U	<0.000404 U	<0.000253 U	<0.000273 U	<0.000245 U	<0.000358 U	<0.000292 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	NS	mg/kg	<0.000315 U	<0.00031 U	<0.000342 U	<0.000343 U	<0.000258 U	<0.00038 U	<0.000389 U	<0.000287 U	<0.000279 U	<0.000349 U	<0.000251 U	<0.000404 U	<0.000253 U	<0.000273 U	<0.000245 U	<0.000358 U	<0.000292 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	NS	mg/kg	0.000443	<0.00031 U	<0.000342 U	<0.000343 U	<0.000258 U	<0.00038 U	<0.000389 U	<0.000287 U	<0.000279 U	<0.000349 U	<0.000251 U	0.00152	<0.000253 U	<0.000273 U	<0.000245 U	<0.000358 U	<0.000292 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	NS	mg/kg	<0.000315 U	<0.00031 U	<0.000342 U	<0.000343 U	<0.000258 U	<0.00038 U	<0.000389 U	<0.000287 U	<0.000279 U	<0.000349 U	<0.000251 U	<0.000404 U	<0.000253 U	<0.000273 U	<0.000245 U	<0.000358 U	<0.000292 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	NS	mg/kg	<0.000315 U	<0.00031 U	<0.000342 U	<0.000343 U	<0.000258 U	<0.00038 U	<0.000389 U	<0.000287 U	<0.000279 U	<0.000349 U	<0.000251 U	<0.000404 U	<0.000253 U	<0.000273 U	<0.000245 U	<0.000358 U	<0.000292 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.044	0.44	mg/kg	**0.00176 J**	<0.00031 UJ	**0.00211**	<0.000343 U	<0.000258 U	**0.00206**	<0.000389 U	**0.00108**	<0.000279 U	<0.000349 U	<0.000251 U	**0.00379**	<0.000253 U	<0.000273 U	<0.000245 U	<0.000358 U	**0.00267**
Perfluorooctanoic Acid (PFOA)	335-67-1	0.00066	0.0011	0.033	0.5	mg/kg	<0.000315 U	<0.00031 U	<0.000342 U	<0.000343 U	<0.000258 U	<0.00038 U	<0.000389 U	<0.000287 U	<0.000279 U	<0.000349 U	<0.000251 U	<0.000404 U	<0.000253 U	<0.000273 U	<0.000245 U	<0.000358 U	<0.000292 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	NS	mg/kg	<0.000315 U	<0.00031 U	0.000543	<0.000343 U	<0.000258 U	<0.00038 U	<0.000389 U	<0.000287 U	<0.000279 U	<0.000349 U	<0.000251 U	0.000567	0.000285	<0.000273 U	<0.000245 U	<0.000358 U	<0.000292 U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	NS	mg/kg	<0.000315 U	<0.00031 U	<0.000342 U	<0.000343 U	<0.000258 U	<0.00038 U	<0.000389 U	<0.000287 U	<0.000279 U	<0.000349 U	<0.000251 U	<0.000404 U	<0.000253 U	<0.000273 U	<0.000245 U	<0.000358 U	<0.000292 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	NS	mg/kg	<0.000315 U	<0.00031 U	<0.000342 U	<0.000343 U	<0.000258 U	<0.00038 U	<0.000389 U	<0.000287 U	<0.000279 U	<0.000349 U	<0.000251 U	<0.000404 U	<0.000253 U	<0.000273 U	<0.000245 U	<0.000358 U	<0.000292 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	NS	mg/kg	<0.000315 U	<0.00031 U	<0.000342 U	<0.000343 U	<0.000258 U	<0.00038 U	<0.000389 U	<0.000287 U	<0.000279 U	<0.000349 U	<0.000251 U	<0.000404 U	<0.000253 U	<0.000273 U	<0.000245 U	<0.000358 U	<0.000292 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FT	39108-34-4	NS	NS	NS	NS	mg/kg	<0.000315 U	<0.00031 U	<0.000342 U	<0.000343 U	<0.000258 U	<0.00038 U	<0.000389 U	<0.000287 U	<0.000279 U	<0.000349 U	<0.000251 U	<0.000404 U	<0.000253 U	<0.000273 U	<0.000245 U	<0.000358 U	<0.000292 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FT	27619-97-2	NS	NS	NS	NS	mg/kg	<0.000315 U	<0.00031 U	<0.000342 UJ	<0.000343 U	<0.000258 U	<0.00038 U	<0.000389 U	<0.000287 U	<0.000279 U	<0.000349 U	<0.000251 U	<0.000404 UJ	<0.000253 U	<0.000273 U	<0.000245 U	<0.000358 U	<0.000292 U

Notes provided on Page 16.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3C
Remedial Investigation Report
Soil Sample Analytical Results - Block 1824 (G)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	G-SB117	G-SB117	G-SB118	G-SB118	G-SB119	G-SB119	G-SB119
						Sample Name	G-SB117_7-9	G-SB117_10-12	G-SB118_0-2	G-SB118_6-8	G-SB119_0-2	G-SB119_6-8	G-SB119_10-12
						Sample Date	09/30/2021	09/30/2021	10/01/2021	10/01/2021	10/08/2021	10/08/2021	10/08/2021
						Sample Depth	7-9	10-12	0-2	6-8	0-2	6-8	10-12
						Unit	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds													
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	500	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 UJ	<0.0026 UJ	<0.0038 U
1,1-Dichloroethane	75-34-3	0.27	0.27	26	240	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
1,1-Dichloroethene	75-35-4	0.33	0.33	100	500	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
1,2,4-Trimethylbenzene	95-63-6	**3.6**	3.6	52	190	mg/kg	<0.0033 U	<0.0035 U	0.013	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	500	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
1,2-Dichloroethane	107-06-2	0.02	0.02	3.1	30	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	**8.4**	8.4	52	190	mg/kg	<0.0033 U	<0.0035 U	0.0053 J	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	280	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	130	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.066 U	<0.071 U	<0.06 U	<0.05 U	<0.063 U	<0.053 U	<0.076 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
Acetone	67-64-1	**0.05**	0.05	100	500	mg/kg	**0.09**	0.049	0.035	0.032	**0.057**	**0.084**	0.039
Acrolein	107-02-8	NS	NS	NS	NS	mg/kg	<0.0066 U	<0.0071 U	0.0076 J	<0.005 U	<0.0063 U	<0.0053 U	<0.0076 U
Acrylonitrile	107-13-1	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
Benzene	71-43-2	**0.06**	0.06	4.8	44	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
Bromochloromethane	74-97-5	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
Bromodichloromethane	75-27-4	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
Bromoform	75-25-2	NS	NS	NS	NS	mg/kg	<0.0033 UJ	<0.0035 UJ	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
Bromomethane	74-83-9	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0035 U	<0.003 UJ	<0.0025 UJ	<0.0032 U	<0.0026 U	<0.0038 U
Carbon Disulfide	75-15-0	NS	NS	NS	NS	mg/kg	0.0092	0.023	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	0.019
Carbon Tetrachloride	56-23-5	0.76	0.76	2.4	22	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
Chlorobenzene	108-90-7	1.1	1.1	100	500	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 UJ	<0.0026 UJ	<0.0038 U
Chloroethane	75-00-3	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
Chloroform	67-66-3	0.37	0.37	49	350	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
Chloromethane	74-87-3	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	100	500	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
Cyclohexane	110-82-7	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
Dibromochloromethane	124-48-1	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
Dibromomethane	74-95-3	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 UJ	<0.0026 UJ	<0.0038 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
Ethylbenzene	100-41-4	**1**	1	41	390	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
M,P-Xylene	179601-23-1	NS	NS	NS	NS	mg/kg	<0.0066 U	<0.0071 U	<0.006 U	<0.005 U	<0.0063 U	<0.0053 U	<0.0076 U
Methyl Acetate	79-20-9	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0035 U	0.0033 J	<0.0025 U	0.0041 J	<0.0026 U	<0.0038 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	0.12	0.12	100	500	mg/kg	0.0087	0.0072	0.0062	0.0064	0.011	0.017	0.0091
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
Methylcyclohexane	108-87-2	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
Methylene Chloride	75-09-2	0.05	0.05	100	500	mg/kg	<0.0066 U	<0.0071 U	<0.006 U	<0.005 U	<0.0063 U	<0.0053 U	<0.0076 U
n-Butylbenzene	104-51-8	12	12	100	500	mg/kg	<0.0033 UJ	<0.0035 UJ	<0.003 UJ	<0.0025 UJ	<0.0032 U	<0.0026 U	<0.0038 U
n-Propylbenzene	103-65-1	**3.9**	3.9	100	500	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0035 U	0.0064	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
Sec-Butylbenzene	135-98-8	11	11	100	500	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
Styrene	100-42-5	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
T-Butylbenzene	98-06-6	5.9	5.9	100	500	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
Tert-Butyl Alcohol	75-65-0	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 UJ
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	100	500	mg/kg	<0.0033 U	0.0073	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	19	150	mg/kg	<0.0033 UJ	<0.0035 UJ	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
Toluene	108-88-3	0.7	0.7	100	500	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
Total Xylenes	1330-20-7	**0.26**	1.6	100	500	mg/kg	<0.0099 U	<0.011 U	0.01 J	<0.0076 U	<0.0095 U	<0.0079 U	<0.011 U
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	100	500	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 UJ	<0.0026 UJ	<0.0038 U
Trichloroethene (TCE)	79-01-6	0.47	0.47	21	200	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	NS	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U
Vinyl Chloride	75-01-4	0.02	0.02	0.9	13	mg/kg	<0.0033 U	<0.0035 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0026 U	<0.0038 U

Notes provided on Page 16.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3C
Remedial Investigation Report
Soil Sample Analytical Results - Block 1824 (G)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	G-SB117	G-SB117	G-SB118	G-SB118	G-SB119	G-SB119	G-SB119
						Sample Name	G-SB117_7-9	G-SB117_10-12	G-SB118_0-2	G-SB118_6-8	G-SB119_0-2	G-SB119_6-8	G-SB119_10-12
						Sample Date	09/30/2021	09/30/2021	10/01/2021	10/01/2021	10/08/2021	10/08/2021	10/08/2021
						Sample Depth	7-9	10-12	0-2	6-8	0-2	6-8	10-12
						Unit	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds													
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	NS	mg/kg	<0.124 U	<0.126 U	<0.0937 U	<0.634 U	<0.105 U	<0.106 U	<0.14 U
1,2-Diphenylhydrazine	122-66-7	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 U	<0.0529 U	<0.0701 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.0189 U	<0.0196 U	<0.0196 U	<0.0196 U	<0.0187 U	<0.0189 U	<0.019 U
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	NS	mg/kg	<0.124 U	<0.126 U	<0.0937 U	<0.634 U	<0.105 UJ	<0.106 U	<0.14 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 UJ	<0.0529 U	<0.0701 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 UJ	<0.0529 U	<0.0701 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 UJ	<0.0529 U	<0.0701 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 UJ	<0.0529 U	<0.0701 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	NS	mg/kg	<0.124 U	<0.126 U	<0.0937 U	<0.634 U	<0.105 UJ	<0.106 U	<0.14 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 U	<0.0529 U	<0.0701 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 U	<0.0529 U	<0.0701 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 U	<0.0529 U	<0.0701 U
2-Chlorophenol	95-57-8	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 UJ	<0.0529 U	<0.0701 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	0.158 D	<0.318 U	0.0595 JD	<0.0529 U	<0.0701 U
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	500	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 UJ	<0.0529 U	<0.0701 U
2-Nitroaniline	88-74-4	NS	NS	NS	NS	mg/kg	<0.124 U	<0.126 U	<0.0937 U	<0.634 U	<0.105 U	<0.106 U	<0.14 U
2-Nitrophenol	88-75-5	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 UJ	<0.0529 U	<0.0701 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	0.33	0.33	100	500	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 UJ	<0.0529 U	<0.0701 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 U	<0.0529 U	<0.0701 U
3-Nitroaniline	99-09-2	NS	NS	NS	NS	mg/kg	<0.124 U	<0.126 U	<0.0937 U	<0.634 U	<0.105 U	<0.106 U	<0.14 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	NS	mg/kg	<0.124 U	<0.126 U	<0.0937 U	<0.634 U	<0.105 UJ	<0.106 U	<0.14 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 U	<0.0529 U	<0.0701 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 UJ	<0.0529 U	<0.0701 U
4-Chloroaniline	106-47-8	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 U	<0.0529 U	<0.0701 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 U	<0.0529 U	<0.0701 U
4-Nitroaniline	100-01-6	NS	NS	NS	NS	mg/kg	<0.124 U	<0.126 U	<0.0937 U	<0.634 U	<0.105 U	<0.106 U	<0.14 U
4-Nitrophenol	100-02-7	NS	NS	NS	NS	mg/kg	<0.124 U	<0.126 U	<0.0937 U	<0.634 U	<0.105 UJ	<0.106 U	<0.14 U
Acenaphthene	83-32-9	20	98	100	500	mg/kg	<0.0623 U	<0.063 U	0.0757 JD	1.76 D	<0.0526 U	<0.0529 U	<0.0701 U
Acenaphthylene	208-96-8	100	107	100	500	mg/kg	<0.0623 U	<0.063 U	0.0532 JD	<0.318 U	<0.0526 U	<0.0529 U	<0.0701 U
Acetophenone	98-86-2	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 U	<0.0529 U	<0.0701 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	NS	NS	NS	mg/kg	<0.249 U	<0.252 U	<0.188 U	<1.27 U	<0.21 U	<0.212 U	<0.28 U
Anthracene	120-12-7	100	1000	100	500	mg/kg	<0.0623 U	<0.063 U	0.138 D	7.42 D	<0.0526 U	<0.0529 U	<0.0701 U
Atrazine	1912-24-9	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 U	<0.0529 U	<0.0701 U
Benzaldehyde	100-52-7	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 U	<0.0529 U	<0.0701 U
Benzidine	92-87-5	NS	NS	NS	NS	mg/kg	<0.249 U	<0.252 U	<0.188 U	<1.27 U	<0.21 U	<0.212 U	<0.28 U
Benzo(a)anthracene	56-55-3	**1**	1	1	5.6	mg/kg	<0.0623 U	<0.063 U	0.335 D	**14 D**	0.0671 JD	<0.0529 U	<0.0701 U
Benzo(a)pyrene	50-32-8	**1**	22	1	1	mg/kg	<0.0623 U	<0.063 U	0.349 D	**10.7 D**	0.0528 JD	0.0794 JD	<0.0701 U
Benzo(b)fluoranthene	205-99-2	**1**	1.7	1	5.6	mg/kg	<0.0623 U	<0.063 U	0.291 D	**8.05 D**	0.0704 JD	0.06 JD	<0.0701 U
Benzo(g,h,i)Perylene	191-24-2	100	1000	100	500	mg/kg	<0.0623 U	<0.063 U	0.213 D	5.05 D	0.0763 JD	0.0591 JD	<0.0701 U
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	3.9	56	mg/kg	<0.0623 U	<0.063 U	0.266 D	**7.1 D**	0.0713 JD	0.0583 JD	<0.0701 U
Benzoic Acid	65-85-0	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 U	<0.0529 U	<0.0701 U
Benzyl Alcohol	100-51-6	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 U	<0.0529 U	<0.0701 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	0.0805 JD	<0.0529 U	<0.0701 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 U	<0.0529 U	<0.0701 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 U	<0.0529 U	<0.0701 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 U	<0.0529 U	<0.0701 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 U	<0.0529 U	<0.0701 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	0.39 D	<0.318 U	6.62 D	<0.0529 U	<0.0701 U
Caprolactam	105-60-2	NS	NS	NS	NS	mg/kg	<0.124 U	<0.126 U	<0.0937 U	<0.634 U	<0.105 U	<0.106 U	<0.14 U
Carbazole	86-74-8	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	2.02 D	<0.0526 U	<0.0529 U	<0.0701 U
Chrysene	218-01-9	**1**	1	3.9	56	mg/kg	<0.0623 U	<0.063 U	0.379 D	**12.7 D**	0.0729 JD	0.0549 JD	<0.0701 U
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.33	0.56	mg/kg	<0.0623 U	<0.063 U	0.0667 JD	**2.27 D**	<0.0526 U	<0.0529 U	<0.0701 U
Dibenzofuran	132-64-9	7	210	59	350	mg/kg	<0.0623 U	<0.063 U	<0.047 U	1.26 D	<0.0526 U	<0.0529 U	<0.0701 U
Dibutyl phthalate	84-74-2	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 U	<0.0529 U	<0.0701 U
Diethyl phthalate	84-66-2	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 U	<0.0529 U	<0.0701 U
Dimethyl phthalate	131-11-3	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 U	<0.0529 U	<0.0701 U
Dioctyl phthalate	117-84-0	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 U	<0.0529 U	<0.0701 U
Diphenylamine	122-39-4	NS	NS	NS	NS	mg/kg	<0.124 U	<0.126 U	<0.0937 U	<0.634 U	<0.105 U	<0.106 U	<0.14 U
Fluoranthene	206-44-0	100	1000	100	500	mg/kg	<0.0623 U	<0.063 U	0.583 D	26.5 D	0.126 D	<0.0529 U	<0.0701 U
Fluorene	86-73-7	30	386	100	500	mg/kg	<0.0623 U	<0.063 U	0.0884 JD	2.28 D	<0.0526 U	<0.0529 U	<0.0701 U
Hexachlorobenzene	118-74-1	0.33	3.2	1.2	6	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 U	<0.0529 U	<0.0701 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 U	<0.0529 U	<0.0701 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 U	<0.0529 U	<0.0701 U
Hexachloroethane	67-72-1	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 U	<0.0529 U	<0.0701 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	0.5	5.6	mg/kg	0.0636 JD	<0.063 U	0.204 D	**6.92 D**	<0.0526 U	<0.0529 U	<0.0701 U
Isophorone	78-59-1	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 U	<0.0529 U	<0.0701 U
Naphthalene	91-20-3	12	12	100	500	mg/kg	<0.0623 U	<0.063 U	0.115 D	<0.318 U	<0.0526 U	<0.0529 U	<0.0701 U
Nitrobenzene	98-95-3	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 U	<0.0529 U	<0.0701 U
n-Nitrosodimethylamine	62-75-9	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 U	<0.0529 U	<0.0701 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 U	<0.0529 U	<0.0701 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	NS	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 U	<0.0529 U	<0.0701 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	6.7	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 UJ	<0.0529 U	<0.0701 U
Phenanthrene	85-01-8	100	1000	100	500	mg/kg	<0.0623 U	<0.063 U	0.466 D	24.9 D	0.0889 JD	<0.0529 U	<0.0701 U
Phenol	108-95-2	**0.33**	0.33	100	500	mg/kg	<0.0623 U	<0.063 U	<0.047 U	<0.318 U	<0.0526 UJ	<0.0529 U	<0.0701 U
Pyrene	129-00-0	100	1000	100	500	mg/kg	0.0666 JD	<0.063 U	1.22 D	24.8 D	0.169 D	0.0701 JD	<0.0701 U
Pyridine	110-86-1	NS	NS	NS	NS	mg/kg	<0.249 U	<0.252 U	<0.188 U	<1.27 U	<0.21 U	<0.212 U	<0.28 U

Notes provided on Page 16.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3C
Remedial Investigation Report
Soil Sample Analytical Results - Block 1824 (G)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	G-SB117	G-SB117	G-SB118	G-SB118	G-SB119	G-SB119	G-SB119
						Sample Name	G-SB117_7-9	G-SB117_10-12	G-SB118_0-2	G-SB118_6-8	G-SB119_0-2	G-SB119_6-8	G-SB119_10-12
						Sample Date	09/30/2021	09/30/2021	10/01/2021	10/01/2021	10/08/2021	10/08/2021	10/08/2021
						Sample Depth	7-9	10-12	0-2	6-8	0-2	6-8	10-12
						Unit	Result	Result	Result	Result	Result	Result	Result
Petroleum Hydrocarbons													
Total Petroleum Hydrocarbons	TPH	NS	NS	NS	NS	UNKNOWN	NA	NA	NA	NA	NA	NA	NA
Pesticides													
4,4'-DDD	72-54-8	**0.0033**	14	13	92	mg/kg	<0.00248 U	<0.0025 U	<0.00182 U	<0.0025 U	**0.0069 D**	<0.00206 UJ	<0.00277 U
4,4'-DDE	72-55-9	**0.0033**	17	8.9	62	mg/kg	<0.00248 U	<0.0025 U	<0.00182 U	<0.0025 U	<0.00205 U	<0.00206 UJ	<0.00277 U
4,4'-DDT	50-29-3	**0.0033**	136	7.9	47	mg/kg	<0.00248 U	<0.0025 U	<0.00182 U	<0.0025 U	**0.0593 D**	<0.00206 UJ	<0.00277 U
Aldrin	309-00-2	0.005	0.19	0.097	0.68	mg/kg	<0.00248 U	<0.0025 U	<0.00182 U	<0.0025 U	<0.00205 U	<0.00206 UJ	<0.00277 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	0.48	3.4	mg/kg	<0.00248 U	<0.0025 U	<0.00182 U	<0.0025 U	<0.00205 U	<0.00206 UJ	<0.00277 U
Alpha Chlordane	5103-71-9	0.094	2.9	4.2	24	mg/kg	<0.00248 U	<0.0025 U	<0.00182 U	<0.0025 U	<0.00205 U	<0.00206 UJ	<0.00277 U
Alpha Endosulfan	959-98-8	2.4	102	24	200	mg/kg	<0.00248 U	<0.0025 U	<0.00182 U	<0.0025 U	<0.00205 U	<0.00206 UJ	<0.00277 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	0.36	3	mg/kg	<0.00248 U	<0.0025 U	<0.00182 U	<0.0025 U	<0.00205 U	<0.00206 UJ	<0.00277 U
Beta Endosulfan	33213-65-9	2.4	102	24	200	mg/kg	<0.00248 U	<0.0025 U	<0.00182 U	<0.0025 U	<0.00205 U	<0.00206 UJ	<0.00277 U
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	NS	mg/kg	<0.0495 U	<0.0499 U	<0.0365 U	<0.05 U	<0.041 U	<0.0413 UJ	<0.0555 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	100	500	mg/kg	<0.00248 U	<0.0025 U	<0.00182 U	<0.0025 U	<0.00205 U	<0.00206 UJ	<0.00277 U
Dieldrin	60-57-1	0.005	0.1	0.2	1.4	mg/kg	<0.00248 U	<0.0025 U	<0.00182 U	<0.0025 U	<0.00205 U	<0.00206 UJ	<0.00277 U
Endosulfan Sulfate	1031-07-8	2.4	1000	24	200	mg/kg	<0.00248 U	<0.0025 U	<0.00182 U	<0.0025 U	<0.00205 U	<0.00206 UJ	<0.00277 U
Endrin	72-20-8	**0.014**	0.06	11	89	mg/kg	<0.00248 U	<0.0025 U	<0.00182 U	<0.0025 U	<0.00205 U	<0.00206 UJ	<0.00277 U
Endrin Aldehyde	7421-93-4	NS	NS	NS	NS	mg/kg	<0.00248 U	<0.0025 U	<0.00182 U	<0.0025 U	<0.00205 U	<0.00206 UJ	<0.00277 U
Endrin Ketone	53494-70-5	NS	NS	NS	NS	mg/kg	<0.00248 U	<0.0025 U	<0.00182 U	<0.0025 U	<0.00205 U	<0.00206 UJ	<0.00277 U
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	1.3	9.2	mg/kg	<0.00248 U	<0.0025 U	<0.00182 U	<0.0025 U	<0.00205 U	<0.00206 UJ	<0.00277 U
Gamma-Chlordane	5566-34-7	NS	NS	NS	NS	mg/kg	<0.00248 U	<0.0025 U	<0.00182 U	<0.0025 U	<0.00205 U	<0.00206 UJ	<0.00277 U
Heptachlor	76-44-8	0.042	0.38	2.1	15	mg/kg	<0.00248 U	<0.0025 U	<0.00182 U	<0.0025 U	<0.00205 U	<0.00206 UJ	<0.00277 U
Heptachlor Epoxide	1024-57-3	NS	NS	NS	NS	mg/kg	<0.00248 U	<0.0025 U	<0.00182 U	<0.0025 U	<0.00205 U	<0.00206 UJ	<0.00277 U
Methoxychlor	72-43-5	NS	NS	NS	NS	mg/kg	<0.00248 U	<0.0025 U	<0.00182 U	<0.0025 U	<0.00205 U	<0.00206 UJ	<0.00277 U
Toxaphene	8001-35-2	NS	NS	NS	NS	mg/kg	<0.248 U	<0.25 U	<0.182 U	<0.25 U	<0.205 U	<0.206 UJ	<0.277 U
Herbicides													
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	NS	mg/kg	<0.03 U	<0.0303 U	<0.0186 U	<0.0254 U	<0.0251 U	<0.0253 U	<0.0335 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	NS	mg/kg	<0.03 U	<0.0303 U	<0.0186 U	<0.0254 U	<0.0251 U	<0.0253 U	<0.0335 U
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	100	500	mg/kg	<0.03 U	<0.0303 U	<0.0186 U	<0.0254 U	<0.0251 U	<0.0253 U	<0.0335 U
Polychlorinated Biphenyl													
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	NS	mg/kg	<0.026 U	<0.0252 U	<0.0184 U	<0.0253 U	<0.0207 U	<0.0208 UJ	<0.028 UJ
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	NS	mg/kg	<0.026 U	<0.0252 U	<0.0184 U	<0.0253 U	<0.0207 U	<0.0208 UJ	<0.028 UJ
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	NS	mg/kg	<0.026 U	<0.0252 U	<0.0184 U	<0.0253 U	<0.0207 U	<0.0208 UJ	<0.028 UJ
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	NS	mg/kg	<0.026 U	<0.0252 U	<0.0184 U	<0.0253 U	<0.0207 U	<0.0208 UJ	<0.028 UJ
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	NS	mg/kg	<0.026 U	<0.0252 U	0.147	<0.0253 U	<0.0207 U	<0.0208 UJ	<0.028 UJ
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	NS	mg/kg	<0.026 U	<0.0252 U	<0.0184 U	<0.0253 U	0.044	<0.0208 UJ	<0.028 UJ
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	NS	mg/kg	<0.026 U	<0.0252 U	0.0264	<0.0253 U	<0.0207 U	<0.0208 UJ	<0.028 UJ
Total PCBs	1336-36-3	**0.1**	3.2	1	1	mg/kg	<0.026 U	<0.0252 U	**0.173**	<0.0253 U	0.044	<0.0208 UJ	<0.028 UJ
Metals													
Aluminum	7429-90-5	NS	NS	NS	NS	mg/kg	6,940	19,300	12,400	4,570	42,900	12,700	20,100
Antimony	7440-36-0	NS	NS	NS	NS	mg/kg	5.96	6.14	3.54	<3.84 U	<3.16 U	33.1	6.87
Arsenic	7440-38-2	**13**	16	16	16	mg/kg	9.01	5.61	2.4	6.88	11.6	**52.7**	6.61
Barium	7440-39-3	**350**	820	400	400	mg/kg	**1,000**	63	140	245	189	**1,860**	87
Beryllium	7440-41-7	7.2	47	72	590	mg/kg	0.161	<0.076 U	2.43	0.156	<0.063 U	<0.064 U	<0.084 U
Cadmium	7440-43-9	**2.5**	7.5	4.3	9.3	mg/kg	**2.84**	<0.457 U	**8.17**	0.562	**19.7**	**5.8**	<0.506 U
Calcium	7440-70-2	NS	NS	NS	NS	mg/kg	5,690	3,930	15,700	4,200	101,000 B	27,900 B	4,740 B
Chromium, Hexavalent	18540-29-9	1	19	110	400	mg/kg	<0.755 U	<0.761 U	<0.686 U	<0.768 U	<0.633 U	<0.635 U	<0.844 U
Chromium, Total	7440-47-3	NS	NS	NS	NS	mg/kg	28.2	36.5	53	13.2	170	111	39.7
Chromium, Trivalent	16065-83-1	**30**	NS	180	1500	mg/kg	28.2	**36.5**	**53**	13.2	**170**	**111**	**39.7**
Cobalt	7440-48-4	NS	NS	NS	NS	mg/kg	10.1	12.5	17.8	8.06	9.27	26.3	13.8
Copper	7440-50-8	**50**	1720	270	270	mg/kg	**680**	16.2	**2,800**	**122**	**7,230**	**2,010**	32.8
Cyanide	57-12-5	27	40	27	27	mg/kg	<0.755 U	<0.761 U	<0.686 U	<0.768 U	<0.633 U	1.21	<0.844 U
Iron	7439-89-6	NS	NS	NS	NS	mg/kg	45,000	33,500	24,600	23,900	16,000	154,000 D	40,500
Lead	7439-92-1	**63**	450	400	1000	mg/kg	**3,570**	17	**467**	**354**	**790**	**1,560**	22.5
Magnesium	7439-95-4	NS	NS	NS	NS	mg/kg	797	8,790	5,840	832	17,400	2,590	10,300
Manganese	7439-96-5	**1600**	2000	2000	10000	mg/kg	264	817	440	141	428	820	843
Mercury	7439-97-6	**0.18**	0.73	0.81	2.8	mg/kg	**18.2**	**1.17**	0.147	**0.722**	0.0724	**0.183**	0.0941
Nickel	7440-02-0	**30**	130	310	310	mg/kg	**33.6 J**	26.7 J	**89.6 J**	22.6 J	**167**	**74.3**	25.5
Potassium	7440-09-7	NS	NS	NS	NS	mg/kg	777	4,880	981	535	387 B	576 B	5,190 B
Selenium	7782-49-2	**3.9**	4	180	1500	mg/kg	<3.78 U	<3.81 U	<2.93 U	<3.84 U	**11**	<3.19 U	<4.22 U
Silver	7440-22-4	**2**	8.3	180	1500	mg/kg	**73.4**	<0.761 U	1.71	<0.768 U	**13.6**	**2.9**	<0.844 U
Sodium	7440-23-5	NS	NS	NS	NS	mg/kg	385	4,360	368	209	134	641	4,810
Thallium	7440-28-0	NS	NS	NS	NS	mg/kg	<3.79 U	<3.81 U	<2.93 U	<3.84 U	<3.16 U	9.08	<4.22 U
Vanadium	7440-62-2	NS	NS	NS	NS	mg/kg	27.3	46.3	29.5	21.2	26.1	14.1	48.3
Zinc	7440-66-6	**109**	2480	10000	10000	mg/kg	**1,180**	76.2	**2,830**	**422**	**5,180 D**	**2,070**	89.1
General Chemistry													
Solids, Percent	SOLID	NS	NS	NS	NS	Percent	66.2	65.7	88.4	65.1	79	78.4	59.3
Perfluorooctanoic acids													
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA	2991-50-6	NS	NS	NS	NS	mg/kg	<0.000293 U	<0.000362 U	<0.000269 U	<0.000362 U	<0.000292 U	<0.000275 U	<0.000379 U
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOS	2355-31-9	NS	NS	NS	NS	mg/kg	<0.000293 U	<0.000362 U	<0.000269 U	<0.000362 U	<0.000292 U	<0.000275 U	<0.000379 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	NS	mg/kg	<0.000293 U	<0.000362 U	<0.000269 U	<0.000362 U	<0.000292 U	<0.000275 U	<0.000379 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	NS	mg/kg	<0.000293 U	<0.000362 U	0.000515	<0.000362 U	<0.000292 U	0.000433	<0.000379 U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	NS	mg/kg	<0.000293 U	<0.000362 U	<0.000269 U	<0.000362 U	<0.000292 U	<0.000275 U	<0.000379 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	NS	mg/kg	<0.000293 U	<0.000362 U	<0.000269 U	<0.000362 U	<0.000292 U	<0.000275 U	<0.000379 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	NS	mg/kg	<0.000293 U	<0.000362 U	<0.000269 U	<0.000362 U	<0.000292 U	<0.000275 U	<0.000379 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	NS	mg/kg	<0.000293 U	<0.000362 U	<0.000269 U	<0.000362 U	<0.000292 U	<0.000275 U	<0.000379 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	NS	mg/kg	<0.000293 U	<0.000362 U	<0.000269 U	<0.000362 U	0.000455	<0.000275 U	<0.000379 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	NS	mg/kg	<0.000293 U	<0.000362 U	<0.000269 U	<0.000362 U	<0.000292 U	<0.000275 U	<0.000379 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	NS	mg/kg	<0.000293 U	<0.000362 U	<0.000269 U	<0.000362 U	<0.000292 U	<0.000275 U	<0.000379 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	NS	mg/kg	<0.000293 U	<0.000362 U	<0.000269 U	<0.000362 U	<0.000292 U	<0.000275 U	<0.000379 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	NS	mg/kg	<0.000293 U	<0.000362 U	<0.000269 U	<0.000362 U	<0.000292 U	<0.000275 U	<0.000379 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.044	0.44	mg/kg	**0.00484**	<0.000362 U	<0.000269 U	<0.000362 U	<0.000292 U	0.000675	<0.000379 U
Perfluorooctanoic Acid (PFOA)	335-67-1	0.00066	0.0011	0.033	0.5	mg/kg	<0.000293 U	<0.000362 U	<0.000269 U	<0.000362 U	<0.000292 U	<0.000275 U	<0.000379 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	NS	mg/kg	<0.000293 U	<0.000362 U	<0.000269 U	<0.000362 U	<0.000292 U	<0.000275 U	<0.000379 U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	NS	mg/kg	<0.000293 U	<0.000362 U	<0.000269 U	<0.000362 U	<0.000292 U	<0.000275 U	<0.000379 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	NS	mg/kg	<0.000293 U	<0.000362 U	<0.000269 U	<0.000362 U	<0.000292 U	<0.000275 U	<0.000379 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	NS	mg/kg	<0.000293 U	<0.000362 U	<0.000269 U	<0.000362 U	<0.000292 U	<0.000275 U	<0.000379 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FT	39108-34-4	NS	NS	NS	NS	mg/kg	<0.000293 U	<0.000362 U	<0.000269 U	<0.000362 U	<0.000292 UJ	<0.000275 U	<0.000379 UJ
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FT	27619-97-2	NS	NS	NS	NS	mg/kg	<0.000293 U	<0.000362 U	<0.000269 U	<0.000362 U	<0.000292 U	<0.000275 U	<0.000379 U

Notes provided on Page 16.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3C
Remedial Investigation Report
Soil Sample Analytical Results - Block 1824 (G)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Notes:

CAS - Chemical Abstract Service
NS - No standard
mg/kg - milligram per kilogram
NA - Not analyzed
RL - Reporting limit
<RL - Not detected
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 Unrestricted Use (UU), Protection of Groundwater (PGW), Restricted Use Restricted-Residential (RURR), and Restricted Use Commercial (CU) Soil Cleanup Objectives (SCO).
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).

Qualifiers:

D - The concentration reported is a result of a diluted sample.
B - The analyte was found in the associated analysis batch blank.
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.

Exceedance Summary:

10 - Result exceeds Unrestricted Use SCOs
10 - Result exceeds Protection of Groundwater SCOs
10 - Result exceeds Restricted Use Restricted-Residential SCOs
10 - Result exceeds Restricted Use Commercial SCOs

Table 3D
Remedial Investigation Report
Soil Sample Analytical Results - Block 1823 (H)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	H-EP101	H-EP101	H-EP101	H-EP102	H-EP102	H-EP102	H-EP107	H-EP109	H-EP109	H-EP111
						Sample Name	H-EP101_0-2	H-EP101_2-4	H-EP101_6-8	H-EP102_0-2	DUP15_100621	H-EP102_6.5-8.5	H-EP107_2-4	H-EP109_7-8	H-EP109_10-11	H-EP111_1.5-2.5
						Sample Date	10/07/2021	10/07/2021	10/07/2021	10/06/2021	10/06/2021	10/06/2021	10/07/2021	10/05/2021	10/05/2021	10/05/2021
						Sample Depth	0-2	2-4	6-8	0-2	0-2	6.5-8.5	2-4	7-8	10-11	1.5-2.5
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	NS	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	500	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	NS	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	NS	NS	NS	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	NS	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
1,1-Dichloroethane	75-34-3	0.27	0.27	26	240	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
1,1-Dichloroethene	75-35-4	0.33	0.33	100	500	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	NS	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	NS	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	NS	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
1,2,4-Trimethylbenzene	95-63-6	**3.6**	3.6	52	190	mg/kg	<0.0021 U	0.0048 J	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	**12 D**	<0.0034 U	<0.0023 U	**6.8 D**
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	NS	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	NS	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	500	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 UJ	<0.0034 U	<0.0023 U	<0.18 U
1,2-Dichloroethane	107-06-2	0.02	0.02	3.1	30	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	NS	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	52	190	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	3.4 D	<0.0034 U	<0.0023 U	1.8 D
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	280	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 UJ	<0.0034 U	<0.0023 U	<0.18 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	130	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 UJ	<0.0034 U	<0.0023 U	<0.18 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.041 U	<0.056 U	<0.046 U	<0.045 U	<0.043 U	<0.045 U	<5 U	<0.068 U	<0.046 U	<3.6 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	NS	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
Acetone	67-64-1	**0.05**	0.05	100	500	mg/kg	0.029	**0.07**	0.039	0.0061 J	0.0047 J	0.048	<0.5 U	**0.18**	<0.0092 U	<0.36 U
Acrolein	107-02-8	NS	NS	NS	NS	mg/kg	<0.0041 U	<0.0056 U	<0.0046 U	<0.0045 U	<0.0043 U	<0.0045 UJ	<0.5 U	<0.0068 U	<0.0046 U	<0.36 UJ
Acrylonitrile	107-13-1	NS	NS	NS	NS	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
Benzene	71-43-2	0.06	0.06	4.8	44	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
Bromochloromethane	74-97-5	NS	NS	NS	NS	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
Bromodichloromethane	75-27-4	NS	NS	NS	NS	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
Bromoform	75-25-2	NS	NS	NS	NS	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 UJ	<0.25 U	<0.0034 U	<0.0023 U	<0.18 UJ
Bromomethane	74-83-9	NS	NS	NS	NS	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
Carbon Disulfide	75-15-0	NS	NS	NS	NS	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	0.013	0.0035 J	<0.18 U
Carbon Tetrachloride	56-23-5	0.76	0.76	2.4	22	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
Chlorobenzene	108-90-7	1.1	1.1	100	500	mg/kg	<0.0021 U	<0.0028 U	0.014	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
Chloroethane	75-00-3	NS	NS	NS	NS	mg/kg	<0.0021 UJ	<0.0028 UJ	<0.0023 UJ	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
Chloroform	67-66-3	0.37	0.37	49	350	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
Chloromethane	74-87-3	NS	NS	NS	NS	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	100	500	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	NS	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
Cyclohexane	110-82-7	NS	NS	NS	NS	mg/kg	0.051	0.13	<0.0023 U	<0.0023 U	<0.0022 UJ	<0.0023 U	<0.25 U	0.0089	<0.0023 U	1.3 D
Dibromochloromethane	124-48-1	NS	NS	NS	NS	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
Dibromomethane	74-95-3	NS	NS	NS	NS	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	NS	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
Ethylbenzene	100-41-4	**1**	1	41	390	mg/kg	<0.0021 U	0.003 J	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	**3.5 D**
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	NS	mg/kg	<0.0021 U	0.0031 J	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	0.34 JD	<0.0034 U	<0.0023 U	0.69 D
M,P-Xylene	179601-23-1	NS	NS	NS	NS	mg/kg	<0.0041 U	0.0062 J	<0.0046 U	<0.0045 U	<0.0043 U	<0.0045 U	0.94 JD	<0.0068 U	<0.0046 U	2.2 D
Methyl Acetate	79-20-9	NS	NS	NS	NS	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	0.46 JD	<0.0034 U	<0.0023 U	<0.18 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	0.12	0.12	100	500	mg/kg	0.0062	0.015	0.0051	<0.0023 U	<0.0022 U	0.0088	<0.25 U	0.054	<0.0023 U	<0.18 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	NS	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
Methylcyclohexane	108-87-2	NS	NS	NS	NS	mg/kg	0.084	0.21	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	0.034	<0.0023 U	5.2 D
Methylene Chloride	75-09-2	0.05	0.05	100	500	mg/kg	<0.0041 U	<0.0056 U	<0.0046 U	<0.0045 U	<0.0043 U	0.01	<0.5 U	<0.014 U	<0.0092 U	<0.36 U
n-Butylbenzene	104-51-8	12	12	100	500	mg/kg	<0.0021 U	0.0032 J	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	2.9 D	<0.0034 U	<0.0023 U	1.4 J
n-Propylbenzene	103-65-1	3.9	3.9	100	500	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	1 D	<0.0034 U	<0.0023 U	1.7 D
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	NS	mg/kg	0.0031 J	0.0062	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	0.67 D	<0.0034 U	<0.0023 U	0.24 JD
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	NS	NS	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	1.8 D	<0.0034 U	<0.0023 U	0.38 D
Sec-Butylbenzene	135-98-8	11	11	100	500	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	2 D	0.0037 J	<0.0023 U	0.56 D
Styrene	100-42-5	NS	NS	NS	NS	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
T-Butylbenzene	98-06-6	5.9	5.9	100	500	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	0.0081 J	<0.0023 UJ	<0.18 U
Tert-Butyl Alcohol	75-65-0	NS	NS	NS	NS	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 UJ	<0.0023 U	<0.25 U	<0.0034 UJ	<0.0023 UJ	<0.18 U
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	100	500	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	0.0027 J	<0.18 U
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	19	150	mg/kg	<0.0021 UJ	<0.0028 UJ	<0.0023 UJ	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 UJ	<0.0034 U	<0.0023 U	<0.18 U
Toluene	108-88-3	0.7	0.7	100	500	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	0.23 JD
Total Xylenes	1330-20-7	**0.26**	1.6	100	500	mg/kg	<0.0062 U	0.012 J	<0.0069 U	<0.0068 U	<0.0065 U	<0.0068 U	**1.6 D**	<0.01 U	<0.0069 U	**2.4 D**
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	100	500	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	NS	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
Trichloroethene (TCE)	79-01-6	0.47	0.47	21	200	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	NS	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U
Vinyl Chloride	75-01-4	**0.02**	0.02	0.9	13	mg/kg	<0.0021 U	<0.0028 U	<0.0023 U	<0.0023 U	<0.0022 U	<0.0023 U	<0.25 U	<0.0034 U	<0.0023 U	<0.18 U

Notes provided on Page 16.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3D
Remedial Investigation Report
Soil Sample Analytical Results - Block 1823 (H)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	H-EP101	H-EP101	H-EP101	H-EP102	H-EP102	H-EP102	H-EP107	H-EP109	H-EP109	H-EP111
						Sample Name	H-EP101_0-2	H-EP101_2-4	H-EP101_6-8	H-EP102_0-2	DUP15_100621	H-EP102_6.5-8.5	H-EP107_2-4	H-EP109_7-8	H-EP109_10-11	H-EP111_1.5-2.5
						Sample Date	10/07/2021	10/07/2021	10/07/2021	10/06/2021	10/06/2021	10/06/2021	10/07/2021	10/05/2021	10/05/2021	10/05/2021
						Sample Depth	0-2	2-4	6-8	0-2	0-2	6.5-8.5	2-4	7-8	10-11	1.5-2.5
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	NS	mg/kg	<0.0869 U	<0.465 U	<0.102 U	<0.0907 U	<0.0881 U	<0.104 U	<0.0916 U	<0.126 U	<0.114 U	<0.427 U
1,2-Diphenylhydrazine	122-66-7	NS	NS	NS	NS	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	<0.0459 U	<0.0629 U	<0.0573 U	<0.214 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.0196 U	<0.0196 U	<0.0196 U	<0.0196 U	<0.0194 U	<0.0185 U	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	NS	mg/kg	<0.0869 U	<0.465 U	<0.102 U	<0.0907 U	<0.0881 U	<0.104 U	0.408 J	<0.126 U	<0.114 U	<0.427 UJ
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	NS	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	<0.0459 UJ	<0.0629 U	<0.0573 U	<0.214 UJ
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	NS	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	0.0681 J	<0.0629 U	<0.0573 U	<0.214 UJ
2,4-Dichlorophenol	120-83-2	NS	NS	NS	NS	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	0.0717 J	<0.0629 U	<0.0573 U	<0.214 UJ
2,4-Dimethylphenol	105-67-9	NS	NS	NS	NS	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	<0.0459 UJ	<0.0629 U	<0.0573 U	<0.214 UJ
2,4-Dinitrophenol	51-28-5	NS	NS	NS	NS	mg/kg	<0.0869 U	<0.465 U	<0.102 U	<0.0907 U	<0.0881 U	<0.104 U	0.157 J	<0.126 U	<0.114 U	<0.427 UJ
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	NS	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	0.438 D	<0.0629 U	<0.0573 U	<0.214 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	NS	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	0.887 D	<0.0629 U	<0.0573 U	<0.214 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	NS	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	<0.0459 U	<0.0629 U	<0.0573 U	<0.214 U
2-Chlorophenol	95-57-8	NS	NS	NS	NS	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	<0.0459 UJ	<0.0629 U	<0.0573 U	<0.214 UJ
2-Methylnaphthalene	91-57-6	NS	NS	NS	NS	mg/kg	0.514 D	1.39 D	<0.0512 U	<0.0454 U	<0.0442 U	0.147 D	6.4 D	<0.0629 U	<0.0573 U	1.2 D
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	500	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	<0.0459 UJ	<0.0629 U	<0.0573 U	<0.214 UJ
2-Nitroaniline	88-74-4	NS	NS	NS	NS	mg/kg	<0.0869 U	<0.465 U	<0.102 U	<0.0907 U	<0.0881 U	<0.104 U	0.102 JD	<0.126 U	<0.114 U	<0.427 U
2-Nitrophenol	88-75-5	NS	NS	NS	NS	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	0.0673 J	<0.0629 U	<0.0573 U	<0.214 UJ
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	0.33	0.33	100	500	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	<0.0459 UJ	<0.0629 U	<0.0573 U	<0.214 UJ
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	NS	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	<0.0459 U	<0.0629 U	<0.0573 U	<0.214 U
3-Nitroaniline	99-09-2	NS	NS	NS	NS	mg/kg	<0.0869 U	<0.465 U	<0.102 U	<0.0907 U	<0.0881 U	<0.104 U	<0.0916 U	<0.126 U	<0.114 U	<0.427 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	NS	mg/kg	<0.0869 U	<0.465 U	<0.102 U	<0.0907 U	<0.0881 U	<0.104 U	0.102 J	<0.126 U	<0.114 U	<0.427 UJ
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	NS	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	<0.0459 U	<0.0629 U	<0.0573 U	<0.214 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	NS	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	0.093 J	<0.0629 U	<0.0573 U	<0.214 UJ
4-Chloroaniline	106-47-8	NS	NS	NS	NS	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	<0.0459 U	<0.0629 U	<0.0573 U	<0.214 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	NS	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	<0.0459 U	<0.0629 U	<0.0573 U	<0.214 U
4-Nitroaniline	100-01-6	NS	NS	NS	NS	mg/kg	<0.0869 U	<0.465 U	<0.102 U	<0.0907 U	<0.0881 U	<0.104 U	<0.0916 U	<0.126 U	<0.114 U	<0.427 U
4-Nitrophenol	100-02-7	NS	NS	NS	NS	mg/kg	<0.0869 U	<0.465 U	<0.102 U	<0.0907 U	<0.0881 U	<0.104 U	0.0922 J	<0.126 U	<0.114 U	<0.427 UJ
Acenaphthene	83-32-9	20	98	100	500	mg/kg	0.0938 D	0.397 JD	<0.0512 U	<0.0454 U	<0.0442 U	0.45 D	0.27 D	<0.0629 U	<0.0573 U	<0.214 U
Acenaphthylene	208-96-8	100	107	100	500	mg/kg	0.0667 JD	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	0.0621 JD	0.125 D	<0.0629 U	<0.0573 U	<0.214 U
Acetophenone	98-86-2	NS	NS	NS	NS	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	0.897 D	<0.0629 U	<0.0573 U	<0.214 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	NS	NS	NS	mg/kg	<0.174 U	<0.931 U	<0.205 U	<0.182 U	<0.176 U	<0.208 U	<0.183 U	<0.251 U	<0.229 U	<0.855 U
Anthracene	120-12-7	100	1000	100	500	mg/kg	<0.0436 U	0.535 D	<0.0512 U	0.259 D	0.138 D	0.871 D	0.146 D	<0.0629 U	<0.0573 U	<0.214 U
Atrazine	1912-24-9	NS	NS	NS	NS	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	0.0564 JD	<0.0629 U	<0.0573 U	<0.214 U
Benzaldehyde	100-52-7	NS	NS	NS	NS	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	1.39 D	<0.0629 U	<0.0573 U	<0.214 U
Benzidine	92-87-5	NS	NS	NS	NS	mg/kg	<0.174 U	<0.931 U	<0.205 U	<0.182 U	<0.176 U	<0.208 U	<0.183 U	<0.251 U	<0.229 U	<0.855 U
Benzo(a)anthracene	56-55-3	**1**	1	1	5.6	mg/kg	0.0841 JD	0.839 D	0.0589 JD	0.91 J	0.391 J	**2.4 D**	0.157 D	<0.0629 U	<0.0573 U	0.297 JD
Benzo(a)pyrene	50-32-8	**1**	22	1	1	mg/kg	0.123 D	0.825 D	0.0703 JD	0.772 J	0.34 J	**2.25 D**	0.179 D	<0.0629 U	<0.0573 U	0.219 JD
Benzo(b)fluoranthene	205-99-2	**1**	1.7	1	5.6	mg/kg	0.111 D	0.635 D	0.0662 JD	0.393 J	0.228 J	**1.89 D**	0.158 D	<0.0629 U	<0.0573 U	<0.214 U
Benzo(g,h,i)Perylene	191-24-2	100	1000	100	500	mg/kg	0.0549 JD	0.423 JD	<0.0512 U	0.358 J	0.201 J	1.36 D	0.127 D	<0.0629 U	<0.0573 U	<0.214 U
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	3.9	56	mg/kg	0.0827 JD	0.631 D	0.0539 JD	0.484 J	0.218 J	**1.81 D**	0.134 D	<0.0629 U	<0.0573 U	<0.214 U
Benzoic Acid	65-85-0	NS	NS	NS	NS	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	2.45 D	<0.0629 U	<0.0573 U	<0.214 U
Benzyl Alcohol	100-51-6	NS	NS	NS	NS	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	<0.0459 U	<0.0629 U	<0.0573 U	<0.214 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	NS	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	<0.0459 U	<0.0629 U	<0.0573 U	0.28 JD
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	NS	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	0.517 D	<0.0629 U	<0.0573 U	<0.214 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	NS	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	0.109 D	<0.0629 U	<0.0573 U	<0.214 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	NS	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	<0.0459 U	<0.0629 U	<0.0573 U	<0.214 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	NS	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	<0.0459 U	<0.0629 U	<0.0573 U	<0.214 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	NS	mg/kg	0.29 D	0.761 D	<0.0512 U	0.0572 JD	<0.0442 U	<0.052 U	0.242 D	<0.0629 U	<0.0573 U	0.997 D
Caprolactam	105-60-2	NS	NS	NS	NS	mg/kg	<0.0869 U	<0.465 U	<0.102 U	<0.0907 U	<0.0881 U	<0.104 U	0.181 JD	<0.126 U	<0.114 U	<0.427 U
Carbazole	86-74-8	NS	NS	NS	NS	mg/kg	0.05 JD	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	0.553 D	0.0791 JD	<0.0629 U	<0.0573 U	<0.214 U
Chrysene	218-01-9	**1**	1	3.9	56	mg/kg	0.158 D	0.832 D	0.0654 JD	0.88 J	0.372 J	**2.26 D**	0.177 D	<0.0629 U	<0.0573 U	0.297 JD
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.33	0.56	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	0.151 D	0.0782 JD	**0.475 D**	<0.0459 U	<0.0629 U	<0.0573 U	<0.214 U
Dibenzofuran	132-64-9	7	210	59	350	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	0.314 D	0.236 D	<0.0629 U	<0.0573 U	<0.214 U
Dibutyl phthalate	84-74-2	NS	NS	NS	NS	mg/kg	<0.0436 U	<0.233 U	0.0687 JD	<0.0454 U	<0.0442 U	<0.052 U	<0.0459 U	<0.0629 U	<0.0573 U	<0.214 U
Diethyl phthalate	84-66-2	NS	NS	NS	NS	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	<0.0459 U	<0.0629 U	<0.0573 U	<0.214 U
Dimethyl phthalate	131-11-3	NS	NS	NS	NS	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	<0.0459 U	<0.0629 U	<0.0573 U	<0.214 U
Dioctyl phthalate	117-84-0	NS	NS	NS	NS	mg/kg	0.461 D	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	<0.0459 U	<0.0629 U	<0.0573 U	<0.214 U
Diphenylamine	122-39-4	NS	NS	NS	NS	mg/kg	<0.0869 U	<0.465 U	<0.102 U	<0.0907 U	<0.0881 U	<0.104 U	0.881 D	<0.126 U	<0.114 U	<0.427 U
Fluoranthene	206-44-0	100	1000	100	500	mg/kg	0.196 D	1.91 D	0.0956 JD	0.879 J	0.507 J	5.99 D	0.331 D	<0.0629 U	<0.0573 U	0.587 D
Fluorene	86-73-7	30	386	100	500	mg/kg	0.159 D	0.628 D	<0.0512 U	<0.0454 U	<0.0442 U	0.457 D	0.54 D	<0.0629 U	<0.0573 U	<0.214 U
Hexachlorobenzene	118-74-1	0.33	3.2	1.2	6	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	0.0805 JD	<0.0629 U	<0.0573 U	<0.214 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	<0.0459 U	<0.0629 U	<0.0573 U	<0.214 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	NS	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 UJ	<0.052 U	<0.0459 U	<0.0629 U	<0.0573 U	<0.214 U
Hexachloroethane	67-72-1	NS	NS	NS	NS	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	0.63 D	<0.0629 U	<0.0573 U	<0.214 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	0.5	5.6	mg/kg	0.0438 JD	0.331 JD	<0.0512 U	0.296 D	0.214 D	**1.33 D**	0.14 D	<0.0629 U	<0.0573 U	<0.214 U
Isophorone	78-59-1	NS	NS	NS	NS	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	<0.0459 U	<0.0629 U	<0.0573 U	<0.214 U
Naphthalene	91-20-3	12	12	100	500	mg/kg	0.188 D	0.743 D	<0.0512 U	<0.0454 U	<0.0442 U	0.447 D	2.05 D	<0.0629 U	<0.0573 U	0.307 JD
Nitrobenzene	98-95-3	NS	NS	NS	NS	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	0.104 D	<0.0629 U	<0.0573 U	<0.214 U
n-Nitrosodimethylamine	62-75-9	NS	NS	NS	NS	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	<0.0459 U	<0.0629 U	<0.0573 U	<0.214 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	NS	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	0.324 D	<0.0629 U	<0.0573 U	<0.214 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	NS	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	0.679 D	<0.0629 U	<0.0573 U	<0.214 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	6.7	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	<0.0459 UJ	<0.0629 U	<0.0573 U	<0.214 UJ
Phenanthrene	85-01-8	100	1000	100	500	mg/kg	0.365 D	2.12 D	0.0768 JD	0.572 J	0.341 J	4.52 D	1.09 D	<0.0629 U	<0.0573 U	0.813 D
Phenol	108-95-2	0.33	0.33	100	500	mg/kg	<0.0436 U	<0.233 U	<0.0512 U	<0.0454 U	<0.0442 U	<0.052 U	<0.0459 UJ	<0.0629 U	<0.0573 U	<0.214 UJ
Pyrene	129-00-0	100	1000	100	500	mg/kg	0.242 D	2.07 D	0.0826 JD	2.27 J	0.742 J	5.04 D	0.442 D	<0.0629 U	<0.0573 U	0.744 D
Pyridine	110-86-1	NS	NS	NS	NS	mg/kg	<0.174 U	<0.931 U	<0.205 U	<0.182 U	<0.176 U	<0.208 U	<0.183 U	<0.251 U	<0.229 U	<0.855 U

Notes provided on Page 16.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3D
Remedial Investigation Report
Soil Sample Analytical Results - Block 1823 (H)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	H-EP101	H-EP101	H-EP101	H-EP102	H-EP102	H-EP102	H-EP107	H-EP109	H-EP109	H-EP111
						Sample Name	H-EP101_0-2	H-EP101_2-4	H-EP101_6-8	H-EP102_0-2	DUP15_100621	H-EP102_6.5-8.5	H-EP107_2-4	H-EP109_7-8	H-EP109_10-11	H-EP111_1.5-2.5
						Sample Date	10/07/2021	10/07/2021	10/07/2021	10/06/2021	10/06/2021	10/06/2021	10/07/2021	10/05/2021	10/05/2021	10/05/2021
						Sample Depth	0-2	2-4	6-8	0-2	0-2	6.5-8.5	2-4	7-8	10-11	1.5-2.5
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Petroleum Hydrocarbons																
Total Petroleum Hydrocarbons	TPH	NS	NS	NS	NS	UNKNOWN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides																
4,4'-DDD	72-54-8	**0.0033**	14	13	92	mg/kg	<0.00169 U	<0.00183 U	<0.00201 U	<0.00179 U	<0.00176 U	<0.00203 U	NA	NA	NA	NA
4,4'-DDE	72-55-9	**0.0033**	17	8.9	62	mg/kg	<0.00169 U	<0.00183 U	<0.00201 U	<0.00179 U	<0.00176 U	<0.00203 U	NA	NA	NA	NA
4,4'-DDT	50-29-3	**0.0033**	136	7.9	47	mg/kg	<0.00169 U	<0.00183 U	<0.00201 U	<0.00179 U	**0.00427 D**	<0.00203 U	NA	NA	NA	NA
Aldrin	309-00-2	0.005	0.19	0.097	0.68	mg/kg	<0.00169 U	<0.00183 U	<0.00201 U	<0.00179 U	<0.00176 U	<0.00203 U	NA	NA	NA	NA
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	0.48	3.4	mg/kg	<0.00169 U	<0.00183 U	<0.00201 U	<0.00179 U	<0.00176 U	<0.00203 U	NA	NA	NA	NA
Alpha Chlordane	5103-71-9	0.094	2.9	4.2	24	mg/kg	<0.00169 U	<0.00183 U	<0.00201 U	<0.00179 U	<0.00176 U	<0.00203 U	NA	NA	NA	NA
Alpha Endosulfan	959-98-8	2.4	102	24	200	mg/kg	<0.00169 U	<0.00183 U	<0.00201 U	<0.00179 U	<0.00176 U	<0.00203 U	NA	NA	NA	NA
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	0.36	3	mg/kg	<0.00169 U	<0.00183 U	<0.00201 U	<0.00179 U	<0.00176 U	<0.00203 U	NA	NA	NA	NA
Beta Endosulfan	33213-65-9	2.4	102	24	200	mg/kg	<0.00169 U	<0.00183 U	<0.00201 U	<0.00179 U	<0.00176 U	<0.00203 U	NA	NA	NA	NA
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	NS	mg/kg	<0.0338 U	<0.0365 U	<0.0402 U	<0.0359 U	<0.0352 U	<0.0406 U	NA	NA	NA	NA
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	100	500	mg/kg	<0.00169 U	<0.00183 U	<0.00201 U	<0.00179 U	<0.00176 U	<0.00203 U	NA	NA	NA	NA
Dieldrin	60-57-1	**0.005**	0.1	0.2	1.4	mg/kg	<0.00169 U	<0.00183 U	<0.00201 U	<0.00179 U	<0.00176 U	<0.00203 U	NA	NA	NA	NA
Endosulfan Sulfate	1031-07-8	2.4	1000	24	200	mg/kg	<0.00169 U	<0.00183 U	<0.00201 U	<0.00179 U	<0.00176 U	<0.00203 U	NA	NA	NA	NA
Endrin	72-20-8	0.014	0.06	11	89	mg/kg	<0.00169 U	<0.00183 U	<0.00201 U	<0.00179 U	<0.00176 U	<0.00203 U	NA	NA	NA	NA
Endrin Aldehyde	7421-93-4	NS	NS	NS	NS	mg/kg	<0.00169 U	<0.00183 U	<0.00201 U	<0.00179 U	<0.00176 U	<0.00203 U	NA	NA	NA	NA
Endrin Ketone	53494-70-5	NS	NS	NS	NS	mg/kg	<0.00169 U	<0.00183 U	<0.00201 U	<0.00179 U	<0.00176 U	<0.00203 U	NA	NA	NA	NA
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	1.3	9.2	mg/kg	<0.00169 U	<0.00183 U	<0.00201 U	<0.00179 U	<0.00176 U	<0.00203 U	NA	NA	NA	NA
Gamma-Chlordane	5566-34-7	NS	NS	NS	NS	mg/kg	<0.00169 U	<0.00183 U	<0.00201 U	<0.00179 U	<0.00176 U	<0.00203 U	NA	NA	NA	NA
Heptachlor	76-44-8	0.042	0.38	2.1	15	mg/kg	<0.00169 U	<0.00183 U	<0.00201 U	<0.00179 U	<0.00176 U	<0.00203 U	NA	NA	NA	NA
Heptachlor Epoxide	1024-57-3	NS	NS	NS	NS	mg/kg	<0.00169 U	<0.00183 U	<0.00201 U	<0.00179 U	<0.00176 U	<0.00203 U	NA	NA	NA	NA
Methoxychlor	72-43-5	NS	NS	NS	NS	mg/kg	<0.00169 U	<0.00183 U	<0.00201 U	<0.00179 U	<0.00176 U	<0.00203 U	NA	NA	NA	NA
Toxaphene	8001-35-2	NS	NS	NS	NS	mg/kg	<0.169 U	<0.183 U	<0.201 U	<0.179 U	<0.176 U	<0.203 U	NA	NA	NA	NA
Herbicides																
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	NS	mg/kg	<0.0208 U	<0.0223 U	<0.0244 U	<0.0218 U	<0.0213 U	<0.0245 U	NA	NA	NA	NA
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	NS	mg/kg	<0.0208 U	<0.0223 U	<0.0244 U	<0.0218 U	<0.0213 U	<0.0245 U	NA	NA	NA	NA
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	100	500	mg/kg	<0.0208 U	<0.0223 U	<0.0244 U	<0.0218 U	<0.0213 U	<0.0245 U	NA	NA	NA	NA
Polychlorinated Biphenyl																
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	NS	mg/kg	<0.0171 U	<0.0184 U	<0.0203 U	<0.0181 U	<0.0178 U	<0.0205 U	NA	NA	NA	NA
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	NS	mg/kg	<0.0171 U	<0.0184 U	<0.0203 U	<0.0181 U	<0.0178 U	<0.0205 U	NA	NA	NA	NA
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	NS	mg/kg	<0.0171 U	<0.0184 U	<0.0203 U	<0.0181 U	<0.0178 U	<0.0205 U	NA	NA	NA	NA
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	NS	mg/kg	<0.0171 U	<0.0184 U	<0.0203 U	<0.0181 U	<0.0178 U	<0.0205 U	NA	NA	NA	NA
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	NS	mg/kg	<0.0171 U	<0.0184 U	<0.0203 U	<0.0181 U	<0.0178 U	<0.0205 U	NA	NA	NA	NA
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	NS	mg/kg	<0.0171 U	<0.0184 U	<0.0203 U	<0.0181 U	<0.0178 U	<0.0205 U	NA	NA	NA	NA
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	NS	mg/kg	0.0558	0.802	<0.0203 U	<0.0181 U	<0.0178 U	<0.0205 U	NA	NA	NA	NA
Total PCBs	1336-36-3	**0.1**	3.2	1	1	mg/kg	0.0558	**0.802**	<0.0203 U	<0.0181 U	<0.0178 U	<0.0205 U	NA	NA	NA	NA
Metals																
Aluminum	7429-90-5	NS	NS	NS	NS	mg/kg	7,920	9,230	22,400	4,510	5,310	4,920	NA	NA	NA	NA
Antimony	7440-36-0	NS	NS	NS	NS	mg/kg	4.09	18.3	11.8	<2.74 UJ	<2.71 U	<3.14 U	NA	NA	NA	NA
Arsenic	7440-38-2	**13**	16	16	16	mg/kg	3.81	8.34	**64.9**	4.65	4.25	**14.9**	NA	NA	NA	NA
Barium	7440-39-3	**350**	820	400	400	mg/kg	176	**1,480**	**362**	196 J	171	270	NA	NA	NA	NA
Beryllium	7440-41-7	7.2	47	72	590	mg/kg	<0.052 U	<0.056 U	0.415	<0.055 U	<0.054 U	0.179	NA	NA	NA	NA
Cadmium	7440-43-9	**2.5**	7.5	4.3	9.3	mg/kg	**3.94**	**44.5**	2.11	0.939 J	0.796	2.5	NA	NA	NA	NA
Calcium	7440-70-2	NS	NS	NS	NS	mg/kg	27,400	22,400	8,480	21,200 B	24,000 B	90,500 B	NA	NA	NA	NA
Chromium, Hexavalent	18540-29-9	1	19	110	400	mg/kg	<0.525 UJ	<0.583 U	<0.617 U	<0.549 U	<0.542 U	<0.628 U	NA	NA	NA	NA
Chromium, Total	7440-47-3	NS	NS	NS	NS	mg/kg	32.1	161	155	14.8	13.9	24.2	NA	NA	NA	NA
Chromium, Trivalent	16065-83-1	**30**	NS	180	1500	mg/kg	**32.1**	**161**	**155**	14.8	13.9	24.2	NA	NA	NA	NA
Cobalt	7440-48-4	NS	NS	NS	NS	mg/kg	22.3	16.8	17.6	4.19	4.12	9.55	NA	NA	NA	NA
Copper	7440-50-8	**50**	1720	270	270	mg/kg	**170**	**595**	**110**	**506 J**	**390**	**214**	NA	NA	NA	NA
Cyanide	57-12-5	27	40	27	27	mg/kg	<0.525 U	1.16	<0.617 U	<0.549 U	<0.542 U	<0.628 U	NA	NA	NA	NA
Iron	7439-89-6	NS	NS	NS	NS	mg/kg	33,800	88,400	54,400	10,200	9,400	50,700	NA	NA	NA	NA
Lead	7439-92-1	**63**	450	400	1000	mg/kg	**201**	**2,250**	**241**	**378 J**	**712 J**	**1,380**	NA	NA	NA	NA
Magnesium	7439-95-4	NS	NS	NS	NS	mg/kg	11,000	4,640	1,800	2,620	4,250	3,380	NA	NA	NA	NA
Manganese	7439-96-5	1600	2000	2000	10000	mg/kg	256	573	138	187	173	383	NA	NA	NA	NA
Mercury	7439-97-6	**0.18**	0.73	0.81	2.8	mg/kg	0.108	**0.197**	**1.22**	**0.818 J**	**0.454 J**	0.103	NA	NA	NA	NA
Nickel	7440-02-0	**30**	130	310	310	mg/kg	17.2	**99.2**	**39.1**	16 J	16.7 J	19 J	NA	NA	NA	NA
Potassium	7440-09-7	NS	NS	NS	NS	mg/kg	904	1,020	2,530	881	983	720	NA	NA	NA	NA
Selenium	7782-49-2	**3.9**	4	180	1500	mg/kg	<2.62 U	<2.81 U	<3.09 U	<2.74 U	<2.71 U	<3.14 U	NA	NA	NA	NA
Silver	7440-22-4	**2**	8.3	180	1500	mg/kg	<0.525 U	<0.563 U	<0.617 U	<0.549 U	<0.542 U	**12.4**	NA	NA	NA	NA
Sodium	7440-23-5	NS	NS	NS	NS	mg/kg	636	531	359	133 J	139	203	NA	NA	NA	NA
Thallium	7440-28-0	NS	NS	NS	NS	mg/kg	<2.62 U	<2.81 U	<3.09 U	<2.74 U	<2.71 U	4.41	NA	NA	NA	NA
Vanadium	7440-62-2	NS	NS	NS	NS	mg/kg	62.8	39.7	62.8	22.2 J	20.6	21.4	NA	NA	NA	NA
Zinc	7440-66-6	**109**	2480	10000	10000	mg/kg	**611**	**12,900 D**	**213**	**1,360 J**	**825**	**1,030**	NA	NA	NA	NA
General Chemistry																
Solids, Percent	SOLID	NS	NS	NS	NS	Percent	95.3	88.8	81	91.1	92.2	79.7	90.2	64.5	72.7	95.7
Perfluorooctanoic acids																
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	NS	NS	NS	mg/kg	<0.000249 U	<0.000263 U	<0.000299 U	<0.000229 U	<0.000254 U	<0.0003 U	NA	NA	NA	NA
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOSA	2355-31-9	NS	NS	NS	NS	mg/kg	<0.000249 U	<0.000263 U	<0.000299 U	<0.000229 U	<0.000254 U	<0.0003 U	NA	NA	NA	NA
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	NS	mg/kg	<0.000249 U	<0.000263 U	<0.000299 U	<0.000229 U	<0.000254 U	<0.0003 U	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	NS	mg/kg	0.000261	0.000474	<0.000299 U	0.000679	0.000569	0.000969	NA	NA	NA	NA
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	NS	mg/kg	<0.000249 U	<0.000263 U	<0.000299 U	<0.000229 U	<0.000254 U	<0.0003 U	NA	NA	NA	NA
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	NS	mg/kg	<0.000249 U	<0.000263 U	<0.000299 U	<0.000229 U	<0.000254 U	<0.0003 U	NA	NA	NA	NA
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	NS	mg/kg	<0.000249 U	<0.000263 U	<0.000299 U	<0.000229 U	<0.000254 U	<0.0003 U	NA	NA	NA	NA
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	NS	mg/kg	<0.000249 U	<0.000263 U	<0.000299 U	<0.000229 U	<0.000254 U	<0.0003 U	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	NS	mg/kg	<0.000249 U	<0.000263 U	<0.000299 U	<0.000229 U	<0.000254 U	<0.0003 U	NA	NA	NA	NA
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	NS	mg/kg	<0.000249 U	<0.000263 U	<0.000299 U	<0.000229 U	<0.000254 U	<0.0003 U	NA	NA	NA	NA
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	NS	mg/kg	<0.000249 U	<0.000263 U	<0.000299 U	<0.000229 U	<0.000254 U	<0.0003 U	NA	NA	NA	NA
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	NS	mg/kg	<0.000249 U	<0.000263 U	<0.000299 U	<0.000229 U	<0.000254 U	<0.0003 U	NA	NA	NA	NA
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	NS	mg/kg	<0.000249 U	<0.000263 U	<0.000299 U	<0.000229 U	<0.000254 U	<0.0003 U	NA	NA	NA	NA
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.044	0.44	mg/kg	<0.000249 U	<0.000263 U	<0.000299 U	**0.00108**	**0.00116**	<0.0003 U	NA	NA	NA	NA
Perfluorooctanoic Acid (PFOA)	335-67-1	0.00066	0.0011	0.033	0.5	mg/kg	<0.000249 U	<0.000263 U	<0.000299 U	<0.000229 U	<0.000254 U	<0.0003 U	NA	NA	NA	NA
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	NS	mg/kg	<0.000249 U	<0.000263 U	<0.000299 U	<0.000229 U	<0.000254 U	<0.0003 U	NA	NA	NA	NA
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	NS	mg/kg	<0.000249 U	<0.000263 U	<0.000299 U	<0.000229 U	<0.000254 U	<0.0003 U	NA	NA	NA	NA
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	NS	mg/kg	<0.000249 U	<0.000263 U	<0.000299 U	<0.000229 U	<0.000254 U	<0.0003 U	NA	NA	NA	NA
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	NS	mg/kg	<0.000249 U	<0.000263 U	<0.000299 U	<0.000229 U	<0.000254 U	<0.0003 U	NA	NA	NA	NA
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FTS	39108-34-4	NS	NS	NS	NS	mg/kg	<0.000249 U	<0.000263 U	<0.000299 U	<0.000229 U	<0.000254 U	<0.0003 U	NA	NA	NA	NA
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FTS	27619-97-2	NS	NS	NS	NS	mg/kg	<0.000249 U	<0.000263 U	<0.000299 U	<0.000229 U	<0.000254 U	<0.0003 U	NA	NA	NA	NA

Notes provided on Page 16.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3D
Remedial Investigation Report
Soil Sample Analytical Results - Block 1823 (H)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	H-EP111	H-SB101	H-SB101	H-SB102	H-SB102	H-SB102	H-SB103	H-SB103	H-SB104	H-SB104	H-SB104	H-SB105	H-SB105
						Sample Name	H-EP111_10-11	H-SB101_0-2	H-SB101_7-9	H-SB102_0-2	H-SB102_7.5-9.5	H-SB102_10-12	H-SB103_0-2	H-SB103_5.5-7.5	H-SB104_0-2	H-SB104_7-9	H-SB104_10-12	H-SB105_0-2	H-SB105_6-8
						Sample Date	10/05/2021	10/07/2021	10/07/2021	10/05/2021	10/05/2021	10/05/2021	10/05/2021	10/05/2021	10/05/2021	10/05/2021	10/05/2021	10/05/2021	10/05/2021
						Sample Depth	10-11	0-2	7-9	0-2	7.5-9.5	10-12	0-2	5.5-7.5	0-2	7-9	10-12	0-2	6-8
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																			
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	500	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
1,1-Dichloroethane	75-34-3	0.27	0.27	26	240	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
1,1-Dichloroethene	75-35-4	0.33	0.33	100	500	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 UJ	<0.002 U	<0.002 UJ	<0.26 U	<0.0029 U	<0.0026 UJ	<0.0027 U	<0.003 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 UJ	<0.002 U	<0.002 UJ	<0.26 U	<0.0029 U	<0.0026 UJ	<0.0027 U	<0.003 U
1,2,4-Trimethylbenzene	95-63-6	**3.6**	3.6	52	190	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	**7.1 D**	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	0.0066	<0.003 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	500	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
1,2-Dichloroethane	107-06-2	0.02	0.02	3.1	30	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	52	190	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	0.069	<0.0031 U	<0.0031 UJ	<0.002 U	<0.002 UJ	<0.26 U	<0.0029 U	<0.0026 UJ	0.0034 J	<0.003 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	280	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	130	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.062 U	<0.054 U	<0.073 U	<0.045 U	<0.063 U	<0.061 U	<0.039 U	<0.04 U	<5.2 U	<0.058 U	<0.052 U	<0.054 U	<0.06 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
Acetone	67-64-1	**0.05**	0.05	100	500	mg/kg	0.023	0.047	0.041	**0.062**	**0.15**	0.026	**0.051**	0.025	<0.52 U	0.045	0.027	0.028	**0.099**
Acrolein	107-02-8	NS	NS	NS	NS	mg/kg	<0.0062 UJ	<0.0054 U	<0.0073 U	<0.0045 U	<0.0063 U	<0.0061 U	<0.0039 U	<0.004 U	<0.52 U	<0.0058 U	<0.0052 U	<0.0054 U	<0.006 U
Acrylonitrile	107-13-1	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
Benzene	71-43-2	0.06	0.06	4.8	44	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	0.0046	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
Bromochloromethane	74-97-5	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
Bromodichloromethane	75-27-4	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
Bromoform	75-25-2	NS	NS	NS	NS	mg/kg	<0.0031 UJ	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 UJ	<0.003 U
Bromomethane	74-83-9	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
Carbon Disulfide	75-15-0	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	0.0031 J	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	0.0033 J	<0.0027 U	<0.003 U
Carbon Tetrachloride	56-23-5	0.76	0.76	2.4	22	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
Chlorobenzene	108-90-7	1.1	1.1	100	500	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
Chloroethane	75-00-3	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0027 UJ	<0.0037 UJ	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
Chloroform	67-66-3	0.37	0.37	49	350	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
Chloromethane	74-87-3	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	100	500	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
Cyclohexane	110-82-7	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	0.0062	<0.0026 U	<0.0027 U	<0.003 U
Dibromochloromethane	124-48-1	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
Dibromomethane	74-95-3	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
Ethylbenzene	100-41-4	**1**	1	41	390	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	0.033	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 UJ	<0.002 U	<0.002 UJ	<0.26 U	<0.0029 U	<0.0026 UJ	<0.0027 UJ	<0.003 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	0.01	<0.0031 U	<0.0031 UJ	<0.002 U	<0.002 UJ	<0.26 U	<0.0029 U	<0.0026 UJ	<0.0027 U	<0.003 U
M,P-Xylene	179601-23-1	NS	NS	NS	NS	mg/kg	<0.0062 U	<0.0054 U	<0.0073 U	0.11	<0.0063 U	<0.0061 U	<0.0039 U	<0.004 U	<0.52 U	<0.0058 U	<0.0052 U	<0.0054 U	<0.006 U
Methyl Acetate	79-20-9	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	0.12	0.12	100	500	mg/kg	0.0042 J	0.0082	0.0058 J	0.014	0.044	0.0041 J	0.01	0.0047	<0.26 U	0.0093	0.0037 J	0.006	0.024
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	0.13	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
Methylcyclohexane	108-87-2	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	0.011	<0.0031 U	<0.0031 UJ	0.0031 J	<0.002 UJ	0.38 JD	0.016	<0.0026 UJ	<0.0027 U	<0.003 U
Methylene Chloride	75-09-2	0.05	0.05	100	500	mg/kg	<0.012 U	<0.0054 U	<0.0073 U	<0.0089 U	<0.0063 U	<0.0061 U	<0.0039 U	<0.0079 U	<0.52 U	<0.0058 U	<0.01 U	0.046 J	<0.012 U
n-Butylbenzene	104-51-8	12	12	100	500	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	0.048 J	<0.0031 UJ	<0.0031 UJ	<0.002 UJ	<0.002 UJ	1.5 J	0.0029 J	<0.0026 UJ	<0.0027 U	<0.003 UJ
n-Propylbenzene	103-65-1	3.9	3.9	100	500	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	0.029	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	0.54 D	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	0.063	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	0.0036 J	<0.003 U
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	0.021	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
Sec-Butylbenzene	135-98-8	11	11	100	500	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	0.025	<0.0031 U	<0.0031 UJ	<0.002 U	<0.002 UJ	1 D	0.0033 J	<0.0026 UJ	<0.0027 U	<0.003 U
Styrene	100-42-5	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
T-Butylbenzene	98-06-6	5.9	5.9	100	500	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 UJ	<0.002 U	<0.002 UJ	<0.26 U	<0.0029 U	<0.0026 UJ	<0.0027 U	<0.003 U
Tert-Butyl Alcohol	75-65-0	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	100	500	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	0.0028 J	<0.0027 U	<0.003 U
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	19	150	mg/kg	<0.0031 U	<0.0027 UJ	<0.0037 UJ	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 UJ	<0.003 U
Toluene	108-88-3	0.7	0.7	100	500	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	0.049	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
Total Xylenes	1330-20-7	**0.26**	1.6	100	500	mg/kg	<0.0092 U	<0.0081 U	<0.011 U	0.17	<0.0094 U	<0.0092 U	<0.0059 U	<0.006 U	<0.78 U	<0.0087 U	<0.0079 U	0.0083 J	<0.0091 U
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	100	500	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
Trichloroethene (TCE)	79-01-6	0.47	0.47	21	200	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	NS	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U
Vinyl Chloride	75-01-4	**0.02**	0.02	0.9	13	mg/kg	<0.0031 U	<0.0027 U	<0.0037 U	<0.0022 U	<0.0031 U	<0.0031 U	<0.002 U	<0.002 U	<0.26 U	<0.0029 U	<0.0026 U	<0.0027 U	<0.003 U

Notes provided on Page 16.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3D
Remedial Investigation Report
Soil Sample Analytical Results - Block 1823 (H)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	H-EP111	H-SB101	H-SB101	H-SB102	H-SB102	H-SB102	H-SB103	H-SB103	H-SB104	H-SB104	H-SB104	H-SB105	H-SB105
						Sample Name	H-EP111_10-11	H-SB101_0-2	H-SB101_7-9	H-SB102_0-2	H-SB102_7.5-9.5	H-SB102_10-12	H-SB103_0-2	H-SB103_5.5-7.5	H-SB104_0-2	H-SB104_7-9	H-SB104_10-12	H-SB105_0-2	H-SB105_6-8
						Sample Date	10/05/2021	10/07/2021	10/07/2021	10/05/2021	10/05/2021	10/05/2021	10/05/2021	10/05/2021	10/05/2021	10/05/2021	10/05/2021	10/05/2021	10/05/2021
						Sample Depth	10-11	0-2	7-9	0-2	7.5-9.5	10-12	0-2	5.5-7.5	0-2	7-9	10-12	0-2	6-8
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																			
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	NS	mg/kg	<0.119 U	<0.089 U	<0.115 U	<0.0857 U	<0.105 U	<0.114 U	<0.0881 U	<0.102 U	<0.0875 U	<0.109 U	<0.104 U	<0.0891 U	<0.117 U
1,2-Diphenylhydrazine	122-66-7	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 U	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 U	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	NA	<0.0196 U	<0.0185 U	<0.0189 U	<0.0185 U	<0.0192 U	<0.0196 U	<0.0194 U	<0.0192 U	<0.0185 U	<0.0192 U	<0.0196 U	<0.0196 U
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	NS	mg/kg	<0.119 U	<0.089 U	<0.115 U	<0.0857 UJ	<0.105 U	<0.114 U	<0.0881 U	<0.102 U	<0.0875 UJ	<0.109 U	<0.104 U	<0.0891 U	<0.117 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 UJ	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 UJ	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 UJ	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 UJ	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 UJ	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 UJ	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 UJ	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 UJ	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	NS	mg/kg	<0.119 U	<0.089 U	<0.115 U	<0.0857 UJ	<0.105 U	<0.114 U	<0.0881 U	<0.102 U	<0.0875 UJ	<0.109 U	<0.104 U	<0.0891 U	<0.117 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 U	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 U	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 U	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 U	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 U	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 U	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
2-Chlorophenol	95-57-8	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 UJ	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 UJ	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	0.515 D	<0.0527 U	<0.0573 U	0.23 D	<0.051 U	1.78 D	<0.0548 U	<0.052 U	0.706 D	<0.0588 U
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	500	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 UJ	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 UJ	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
2-Nitroaniline	88-74-4	NS	NS	NS	NS	mg/kg	<0.119 U	<0.089 U	<0.115 U	<0.0857 U	<0.105 U	<0.114 U	<0.0881 U	<0.102 U	<0.0875 U	<0.109 U	<0.104 U	<0.0891 U	<0.117 U
2-Nitrophenol	88-75-5	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 UJ	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 UJ	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	0.33	0.33	100	500	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 UJ	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 UJ	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	0.0514 J	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 U	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
3-Nitroaniline	99-09-2	NS	NS	NS	NS	mg/kg	<0.119 U	<0.089 U	<0.115 U	<0.0857 U	<0.105 U	<0.114 U	<0.0881 U	<0.102 U	<0.0875 U	<0.109 U	<0.104 U	<0.0891 U	<0.117 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	NS	mg/kg	<0.119 U	<0.089 U	<0.115 U	<0.0857 UJ	<0.105 U	<0.114 U	<0.0881 U	<0.102 U	<0.0875 UJ	<0.109 U	<0.104 U	<0.0891 U	<0.117 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 U	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 U	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 UJ	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 UJ	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
4-Chloroaniline	106-47-8	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 U	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 U	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 U	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 U	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
4-Nitroaniline	100-01-6	NS	NS	NS	NS	mg/kg	<0.119 U	<0.089 U	<0.115 U	<0.0857 U	<0.105 U	<0.114 U	<0.0881 U	<0.102 U	<0.0875 U	<0.109 U	<0.104 U	<0.0891 U	<0.117 U
4-Nitrophenol	100-02-7	NS	NS	NS	NS	mg/kg	<0.119 U	<0.089 U	<0.115 U	<0.0857 UJ	<0.105 U	<0.114 U	<0.0881 U	<0.102 U	<0.0875 UJ	<0.109 U	<0.104 U	<0.0891 U	<0.117 U
Acenaphthene	83-32-9	20	98	100	500	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 U	<0.0527 U	<0.0573 U	0.102 D	<0.051 U	0.201 D	0.0839 JD	<0.052 U	<0.0446 U	<0.0588 U
Acenaphthylene	208-96-8	100	107	100	500	mg/kg	<0.0596 U	0.0484 JD	<0.0575 U	<0.0429 U	<0.0527 U	<0.0573 U	0.309 D	<0.051 U	<0.0439 U	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
Acetophenone	98-86-2	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 U	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 U	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	NS	NS	NS	mg/kg	<0.238 U	<0.178 U	<0.23 U	<0.172 U	<0.211 U	<0.229 U	<0.177 U	<0.204 U	<0.175 U	<0.219 U	<0.208 U	<0.178 U	<0.235 U
Anthracene	120-12-7	100	1000	100	500	mg/kg	<0.0596 U	0.0576 JD	0.0762 JD	0.063 JD	<0.0527 U	<0.0573 U	0.402 D	<0.051 U	0.221 D	0.19 D	<0.052 U	0.0569 JD	<0.0588 U
Atrazine	1912-24-9	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 U	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 U	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
Benzaldehyde	100-52-7	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 U	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 U	<0.0548 U	<0.052 U	<0.0446 U	0.075 J
Benzidine	92-87-5	NS	NS	NS	NS	mg/kg	<0.238 U	<0.178 U	<0.23 U	<0.172 U	<0.211 U	<0.229 U	<0.177 U	<0.204 U	<0.175 U	<0.219 U	<0.208 U	<0.178 U	<0.235 U
Benzo(a)anthracene	**1**	1	1	5.6	mg/kg	<0.0596 U	0.146 D	0.543 D	0.151 D	0.163 D	<0.0573 U	0.91 D	<0.051 U	0.236 D	0.504 D	<0.052 U	0.157 D	0.533 D
Benzo(a)pyrene	**1**	22	1	1	mg/kg	<0.0596 U	0.156 D	0.544 D	0.173 D	0.156 D	<0.0573 U	0.76 D	<0.051 U	0.236 D	0.587 D	<0.052 U	0.171 D	0.658 D
Benzo(b)fluoranthene	**1**	1.7	1	5.6	mg/kg	<0.0596 U	0.139 D	0.471 D	0.173 D	0.14 D	<0.0573 U	0.67 D	<0.051 U	0.24 D	0.427 D	<0.052 U	0.161 D	0.59 D
Benzo(g,h,i)Perylene	191-24-2	100	1000	100	500	mg/kg	<0.0596 U	0.12 D	0.511 D	0.129 D	0.112 D	<0.0573 U	0.404 D	<0.051 U	0.118 D	0.349 D	<0.052 U	0.117 D	0.34 D
Benzo(k)fluoranthene	**0.8**	1.7	3.9	56	mg/kg	<0.0596 U	0.147 D	0.429 D	0.0986 D	0.0866 JD	<0.0573 U	0.613 D	<0.051 U	0.192 D	0.294 D	<0.052 U	0.118 D	0.454 D
Benzoic Acid	65-85-0	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 U	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 U	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
Benzyl Alcohol	100-51-6	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 U	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 U	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 U	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 U	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	0.0726 JD	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 U	<0.0548 U	<0.052 U	0.111 D	<0.0588 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 U	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 U	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 U	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 U	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 U	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 U	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	NS	mg/kg	<0.0596 U	0.511 D	<0.0575 U	0.155 D	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	1.32 D	<0.0548 U	<0.052 U	0.248 D	<0.0588 U
Caprolactam	105-60-2	NS	NS	NS	NS	mg/kg	<0.119 U	<0.089 U	<0.115 U	<0.0857 U	<0.105 U	<0.114 U	<0.0891 U	<0.102 U	<0.0875 U	<0.109 U	<0.104 U	<0.0891 U	<0.117 U
Carbazole	86-74-8	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	0.0918 D	<0.0527 U	<0.0573 U	0.0916 D	<0.051 U	<0.0439 U	0.083 JD	<0.052 U	<0.0446 U	<0.0588 U
Chrysene	218-01-9	**1**	1	3.9	56	mg/kg	<0.0596 U	0.165 D	0.569 D	0.172 D	0.14 D	<0.0573 U	0.862 D	<0.051 U	0.259 D	0.42 D	<0.052 U	0.159 D	0.515 D
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.33	0.56	mg/kg	<0.0596 U	<0.0446 U	0.166 D	<0.0429 U	<0.0527 U	<0.0573 U	0.147 D	<0.051 U	0.0469 JD	0.259 D	<0.052 U	0.0463 JD	0.128 D
Dibenzofuran	132-64-9	7	210	59	350	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 U	<0.0527 U	<0.0573 U	0.0676 JD	<0.051 U	<0.0439 U	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
Dibutyl phthalate	84-74-2	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 U	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 U	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
Diethyl phthalate	84-66-2	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 U	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 U	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
Dimethyl phthalate	131-11-3	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 U	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 U	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
Dioctyl phthalate	117-84-0	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 U	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 U	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
Diphenylamine	122-39-4	NS	NS	NS	NS	mg/kg	<0.119 U	<0.089 U	<0.115 U	<0.0857 U	<0.105 U	<0.114 U	<0.0881 U	<0.102 U	<0.0875 U	<0.109 U	<0.104 U	<0.0891 U	<0.117 U
Fluoranthene	206-44-0	100	1000	100	500	mg/kg	<0.0596 U	0.211 D	0.85 D	0.273 D	0.349 D	0.1 JD	2.02 D	<0.051 U	0.473 D	0.813 D	<0.052 U	0.279 D	0.534 D
Fluorene	86-73-7	30	386	100	500	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	0.087 D	<0.0527 U	<0.0573 U	0.307 D	<0.051 U	0.443 D	0.0813 JD	<0.052 U	0.0797 JD	<0.0588 U
Hexachlorobenzene	118-74-1	0.33	3.2	1.2	6	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 U	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 U	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 U	<0.0527 U	<0.0573 UJ	<0.0442 U	<0.051 UJ	<0.0439 U	<0.0548 U	<0.052 UJ	<0.0446 UJ	<0.0588 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 U	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 U	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
Hexachloroethane	67-72-1	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 U	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 U	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	0.5	5.6	mg/kg	<0.0596 U	0.102 D	0.45 D	0.132 D	0.129 D	<0.0573 U	0.473 D	<0.051 U	0.147 D	0.393 D	<0.052 U	0.125 D	0.487 D
Isophorone	78-59-1	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 U	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 U	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
Naphthalene	91-20-3	12	12	100	500	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	0.179 D	<0.0527 U	<0.0573 U	0.0768 JD	<0.051 U	0.413 D	0.0655 JD	<0.052 U	0.224 D	<0.0588 U
Nitrobenzene	98-95-3	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 U	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 U	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
n-Nitrosodimethylamine	62-75-9	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 U	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 U	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 U	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 U	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	NS	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 U	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 U	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	6.7	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 UJ	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 UJ	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
Phenanthrene	85-01-8	100	1000	100	500	mg/kg	<0.0596 U	0.0839 JD	0.448 D	0.29 D	0.161 D	<0.0573 U	2.01 D	<0.051 U	1.09 D	0.534 D	<0.052 U	0.242 D	0.234 D
Phenol	108-95-2	0.33	0.33	100	500	mg/kg	<0.0596 U	<0.0446 U	<0.0575 U	<0.0429 UJ	<0.0527 U	<0.0573 U	<0.0442 U	<0.051 U	<0.0439 UJ	<0.0548 U	<0.052 U	<0.0446 U	<0.0588 U
Pyrene	129-00-0	100	1000	100	500	mg/kg	<0.0596 U	0.261 D	0.699 D	0.236 D	0.279 D	0.0758 JD	1.99 D	<0.051 U	0.693 D	0.687 D	<0.052 U	0.276 D	0.488 D
Pyridine	110-86-1	NS	NS	NS	NS	mg/kg	<0.238 U	<0.178 U	<0.23 U	<0.172 U	<0.211 U	<0.229 U	<0.177 U	<0.204 U	<0.175 U	<0.219 U	<0.208 U	<0.178 U	<0.235 U

Notes provided on Page 16.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3D
Remedial Investigation Report
Soil Sample Analytical Results - Block 1823 (H)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	H-EP111	H-SB101	H-SB101	H-SB102	H-SB102	H-SB102	H-SB103	H-SB103	H-SB104	H-SB104	H-SB104	H-SB105	H-SB105
						Sample Name	H-EP111_10-11	H-SB101_0-2	H-SB101_7-9	H-SB102_0-2	H-SB102_7.5-9.5	H-SB102_10-12	H-SB103_0-2	H-SB103_5.5-7.5	H-SB104_0-2	H-SB104_7-9	H-SB104_10-12	H-SB105_0-2	H-SB105_6-8
						Sample Date	10/05/2021	10/07/2021	10/07/2021	10/05/2021	10/05/2021	10/05/2021	10/05/2021	10/05/2021	10/05/2021	10/05/2021	10/05/2021	10/05/2021	10/05/2021
						Sample Depth	10-11	0-2	7-9	0-2	7.5-9.5	10-12	0-2	5.5-7.5	0-2	7-9	10-12	0-2	6-8
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Petroleum Hydrocarbons																			
Total Petroleum Hydrocarbons	TPH	NS	NS	NS	NS	UNKNOWN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides																			
4,4'-DDD	72-54-8	**0.0033**	14	13	92	mg/kg	NA	<0.00175 U	<0.00227 U	<0.00171 U	<0.00209 U	<0.00223 UJ	<0.00176 U	<0.002 U	<0.00173 U	<0.00218 U	<0.00201 U	<0.00178 U	<0.0023 UJ
4,4'-DDE	72-55-9	**0.0033**	17	8.9	62	mg/kg	NA	<0.00175 U	<0.00227 U	<0.00171 U	<0.00209 U	<0.00223 UJ	<0.00176 U	<0.002 U	<0.00173 U	<0.00218 U	<0.00201 U	<0.00178 U	<0.0023 UJ
4,4'-DDT	50-29-3	**0.0033**	136	7.9	47	mg/kg	NA	<0.00175 U	<0.00227 U	<0.00171 U	<0.00209 U	<0.00223 UJ	<0.00176 U	<0.002 U	<0.00173 U	<0.00218 U	<0.00201 U	<0.00178 U	<0.0023 UJ
Aldrin	309-00-2	0.005	0.19	0.097	0.68	mg/kg	NA	<0.00175 U	<0.00227 U	<0.00171 U	<0.00209 U	<0.00223 UJ	<0.00176 U	<0.002 U	<0.00173 U	<0.00218 U	<0.00201 U	<0.00178 U	<0.0023 UJ
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	0.48	3.4	mg/kg	NA	<0.00175 U	<0.00227 U	<0.00171 U	<0.00209 U	<0.00223 UJ	<0.00176 U	<0.002 U	<0.00173 U	<0.00218 U	<0.00201 U	<0.00178 U	<0.0023 UJ
Alpha Chlordane	5103-71-9	0.094	2.9	4.2	24	mg/kg	NA	<0.00175 U	<0.00227 U	0.0272 D	<0.00209 U	<0.00223 UJ	<0.00176 U	<0.002 U	0.0553 D	<0.00218 U	<0.00201 U	<0.00178 U	<0.0023 UJ
Alpha Endosulfan	959-98-8	2.4	102	24	200	mg/kg	NA	<0.00175 U	<0.00227 U	<0.00171 U	<0.00209 U	<0.00223 UJ	<0.00176 U	<0.002 U	<0.00173 U	<0.00218 U	<0.00201 U	<0.00178 U	<0.0023 UJ
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	0.36	3	mg/kg	NA	<0.00175 U	<0.00227 U	<0.00171 U	<0.00209 U	<0.00223 UJ	<0.00176 U	<0.002 U	<0.00173 U	<0.00218 U	<0.00201 U	<0.00178 U	<0.0023 UJ
Beta Endosulfan	33213-65-9	2.4	102	24	200	mg/kg	NA	<0.00175 U	<0.00227 U	<0.00171 U	<0.00209 U	<0.00223 UJ	<0.00176 U	<0.002 U	<0.00173 U	<0.00218 U	<0.00201 U	<0.00178 U	<0.0023 UJ
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	NS	mg/kg	NA	<0.0351 U	<0.0454 U	<0.0341 U	<0.0419 U	<0.0446 UJ	<0.0351 U	<0.04 U	0.245 D	<0.0435 U	<0.0402 U	<0.0356 U	<0.0459 UJ
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	100	500	mg/kg	NA	<0.00175 U	<0.00227 U	<0.00171 U	<0.00209 U	<0.00223 UJ	<0.00176 U	<0.002 U	<0.00173 U	<0.00218 U	<0.00201 U	<0.00178 U	<0.0023 UJ
Dieldrin	60-57-1	**0.005**	0.1	0.2	1.4	mg/kg	NA	<0.00175 U	<0.00227 U	<0.00171 U	<0.00209 U	<0.00223 UJ	<0.00176 U	<0.002 U	<0.00173 U	<0.00218 U	<0.00201 U	<0.00178 U	<0.0023 UJ
Endosulfan Sulfate	1031-07-8	2.4	1000	24	200	mg/kg	NA	<0.00175 U	<0.00227 U	<0.00171 U	<0.00209 U	<0.00223 UJ	<0.00176 U	<0.002 U	<0.00173 U	<0.00218 U	<0.00201 U	<0.00178 U	<0.0023 UJ
Endrin	72-20-8	0.014	0.06	11	89	mg/kg	NA	<0.00175 U	<0.00227 U	<0.00171 U	<0.00209 U	<0.00223 UJ	<0.00176 U	<0.002 U	<0.00173 U	<0.00218 U	<0.00201 U	<0.00178 U	<0.0023 UJ
Endrin Aldehyde	7421-93-4	NS	NS	NS	NS	mg/kg	NA	<0.00175 U	<0.00227 U	<0.00171 U	<0.00209 U	<0.00223 UJ	<0.00176 U	<0.002 U	<0.00173 U	<0.00218 U	<0.00201 U	<0.00178 U	<0.0023 UJ
Endrin Ketone	53494-70-5	NS	NS	NS	NS	mg/kg	NA	<0.00175 U	<0.00227 U	<0.00171 U	<0.00209 U	<0.00223 UJ	<0.00176 U	<0.002 U	<0.00173 U	<0.00218 U	<0.00201 U	<0.00178 U	<0.0023 UJ
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	1.3	9.2	mg/kg	NA	<0.00175 U	<0.00227 U	<0.00171 U	<0.00209 U	<0.00223 UJ	<0.00176 U	<0.002 U	<0.00173 U	<0.00218 U	<0.00201 U	<0.00178 U	<0.0023 UJ
Gamma-Chlordane	5566-34-7	NS	NS	NS	NS	mg/kg	NA	<0.00175 U	<0.00227 U	0.0284 D	<0.00209 U	<0.00223 UJ	<0.00176 U	<0.002 U	0.046 D	<0.00218 U	<0.00201 U	<0.00178 U	<0.0023 UJ
Heptachlor	76-44-8	0.042	0.38	2.1	15	mg/kg	NA	<0.00175 U	<0.00227 U	<0.00171 U	<0.00209 U	<0.00223 UJ	<0.00176 U	<0.002 U	<0.00173 U	<0.00218 U	<0.00201 U	<0.00178 U	<0.0023 UJ
Heptachlor Epoxide	1024-57-3	NS	NS	NS	NS	mg/kg	NA	<0.00175 U	<0.00227 U	<0.00171 U	<0.00209 U	<0.00223 UJ	<0.00176 U	<0.002 U	<0.00173 U	<0.00218 U	<0.00201 U	<0.00178 U	<0.0023 UJ
Methoxychlor	72-43-5	NS	NS	NS	NS	mg/kg	NA	<0.00175 U	<0.00227 U	<0.00171 U	<0.00209 U	<0.00223 UJ	<0.00176 U	<0.002 U	<0.00173 U	<0.00218 U	<0.00201 U	<0.00178 U	<0.0023 UJ
Toxaphene	8001-35-2	NS	NS	NS	NS	mg/kg	NA	<0.175 U	<0.227 U	<0.171 U	<0.209 U	<0.223 UJ	<0.176 U	<0.2 U	<0.173 U	<0.218 U	<0.201 U	<0.178 U	<0.23 UJ
Herbicides																			
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	NS	mg/kg	NA	<0.0213 U	<0.0275 U	<0.0209 U	<0.0253 U	<0.0275 U	<0.0215 U	<0.0244 U	<0.0212 U	<0.0265 U	<0.0249 U	<0.0216 U	<0.0281 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	NS	mg/kg	NA	<0.0213 U	<0.0275 U	<0.0209 U	<0.0253 U	<0.0275 U	<0.0215 U	<0.0244 U	<0.0212 U	<0.0265 U	<0.0249 U	<0.0216 U	<0.0281 U
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	100	500	mg/kg	NA	<0.0213 U	<0.0275 U	<0.0209 U	<0.0253 U	<0.0275 U	<0.0215 U	<0.0244 U	<0.0212 U	<0.0265 U	<0.0249 U	<0.0216 U	<0.0281 U
Polychlorinated Biphenyl																			
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	NS	mg/kg	NA	<0.0177 U	<0.0229 U	<0.0172 U	<0.0211 UJ	<0.0225 UJ	<0.0177 U	<0.0202 UJ	<0.0174 U	<0.022 UJ	<0.0203 U	<0.018 U	<0.0232 UJ
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	NS	mg/kg	NA	<0.0177 U	<0.0229 U	<0.0172 U	<0.0211 UJ	<0.0225 UJ	<0.0177 U	<0.0202 UJ	<0.0174 U	<0.022 UJ	<0.0203 U	<0.018 U	<0.0232 UJ
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	NS	mg/kg	NA	<0.0177 U	<0.0229 U	<0.0172 U	<0.0211 UJ	<0.0225 UJ	<0.0177 U	<0.0202 UJ	<0.0174 U	<0.022 UJ	<0.0203 U	<0.018 U	<0.0232 UJ
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	NS	mg/kg	NA	<0.0177 U	<0.0229 U	<0.0172 U	<0.0211 UJ	<0.0225 UJ	<0.0177 U	<0.0202 UJ	<0.0174 U	<0.022 UJ	<0.0203 U	<0.018 U	<0.0232 UJ
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	NS	mg/kg	NA	<0.0177 U	<0.0229 U	0.023	<0.0211 UJ	<0.0225 UJ	0.136	<0.0202 UJ	0.0956	<0.022 UJ	<0.0203 U	0.126	<0.0232 UJ
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	NS	mg/kg	NA	<0.0177 U	<0.0229 U	<0.0172 U	<0.0211 UJ	<0.0225 UJ	<0.0177 U	<0.0202 UJ	<0.0174 U	<0.022 UJ	<0.0203 U	<0.018 U	<0.0232 UJ
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	NS	mg/kg	NA	<0.0177 U	<0.0229 U	<0.0172 U	<0.0211 UJ	<0.0225 UJ	0.04	<0.0202 UJ	0.0336	<0.022 UJ	<0.0203 U	0.0415	<0.0232 UJ
Total PCBs	1336-36-3	**0.1**	3.2	1	1	mg/kg	NA	<0.0177 U	<0.0229 U	0.023	<0.0211 UJ	<0.0225 UJ	**0.176**	<0.0202 UJ	**0.129**	<0.022 UJ	<0.0203 U	**0.167**	<0.0232 UJ
Metals																			
Aluminum	7429-90-5	NS	NS	NS	NS	mg/kg	NA	4,640	5,290	6,910	4,410	6,300	8,230	12,300	5,950	5,410	9,930	4,750	4,600
Antimony	7440-36-0	NS	NS	NS	NS	mg/kg	NA	<2.69 U	<3.48 U	<2.62 U	<3.19 U	<3.45 U	<2.7 U	3.59	<2.66 U	15.9	<3.13 U	<2.7 U	13.6
Arsenic	7440-38-2	**13**	16	16	16	mg/kg	NA	5.08	9.2	7.73	<1.92 U	3.34	<1.62 U	<1.84 U	4.75	<1.99 U	3.86	9.27	8.11
Barium	7440-39-3	**350**	820	400	400	mg/kg	NA	110	**460**	42	**1,600**	23	135	63	133	**1,080**	33.5	**368**	**355**
Beryllium	7440-41-7	7.2	47	72	590	mg/kg	NA	<0.054 U	0.256	<0.052 U	<0.064 U	<0.069 U	<0.054 U	<0.061 U	<0.053 U	<0.066 U	<0.063 U	<0.054 U	0.141
Cadmium	7440-43-9	**2.5**	7.5	4.3	9.3	mg/kg	NA	0.854	1.02	0.44	0.571	<0.414 U	0.814	<0.368 U	1.19	**4.68**	<0.375 U	**2.79**	**2.77**
Calcium	7440-70-2	NS	NS	NS	NS	mg/kg	NA	40,600	8,120	38,100 B	12,100 B	8,960 B	19,900 B	1,690 B	65,300 B	17,600 B	5,770 B	16,000 B	5,810 B
Chromium, Hexavalent	18540-29-9	1	19	110	400	mg/kg	NA	<0.537 U	<0.695 U	<0.524 U	<0.639 U	<0.69 U	<0.541 U	<0.614 U	<0.532 U	<0.664 U	<0.626 U	<0.541 U	<0.708 U
Chromium, Total	7440-47-3	NS	NS	NS	NS	mg/kg	NA	13.6	19.5	20.3	15.5	14	18.2	21.8	22.9	74.8	19.8	22	29.5
Chromium, Trivalent	16065-83-1	**30**	NS	180	1500	mg/kg	NA	13.6	19.5	20.3	15.5	14	18.2	21.8	22.9	**74.8**	19.8	22	29.5
Cobalt	7440-48-4	NS	NS	NS	NS	mg/kg	NA	3.54	7.57	4.03	4.24	5.19	8.95	8.05	4.85	14.9	7.32	7.79	13
Copper	7440-50-8	**50**	1720	270	270	mg/kg	NA	**59.7**	**179**	16.6	**53.3**	5.1	**64.3**	25.4	**71.1**	**1,180**	8.06	**133**	**298**
Cyanide	57-12-5	27	40	27	27	mg/kg	NA	<0.537 U	<0.695 U	<0.524 U	<0.639 U	<0.69 U	<0.541 U	<0.614 U	<0.532 U	<0.664 U	<0.626 U	<0.541 U	<0.708 U
Iron	7439-89-6	NS	NS	NS	NS	mg/kg	NA	11,100	25,300	10,100	11,100	12,400	20,000	19,100	13,500	76,500	19,700	25,400	52,600
Lead	7439-92-1	**63**	450	400	1000	mg/kg	NA	**116**	**643**	39.5	**222**	8.34	**120**	30.5	**220**	**3,920**	8.49	**580**	**1,040**
Magnesium	7439-95-4	NS	NS	NS	NS	mg/kg	NA	11,300	787	13,500	6,770	4,220	4,960	2,970	20,200	2,840	5,170	7,650	736
Manganese	7439-96-5	1600	2000	2000	10000	mg/kg	NA	145	748	149	105	260	306	404	230	503	416	218	448
Mercury	7439-97-6	**0.18**	0.73	0.81	2.8	mg/kg	NA	0.0625	**2.57**	0.0421	**0.358**	0.108	0.0668	0.0853	0.106	**0.807**	0.0462	0.0977	**7.68**
Nickel	7440-02-0	**30**	130	310	310	mg/kg	NA	10.4	17	14.4 J	12.8 J	11.4 J	18.8 J	18.4	16.9 J	**50.7 J**	16.3 J	**35.2 J**	**47.9 J**
Potassium	7440-09-7	NS	NS	NS	NS	mg/kg	NA	894	912	679	601	1,540	1,080	1,210	1,080	980	2,550	681	415
Selenium	7782-49-2	**3.9**	4	180	1500	mg/kg	NA	**4.37**	<3.48 U	**4.58**	<3.19 U	<3.45 U	<2.7 U	<3.07 U	**4.23**	<3.32 U	<3.13 U	<2.7 U	<3.54 U
Silver	7440-22-4	**2**	8.3	180	1500	mg/kg	NA	<0.537 U	1.57	<0.524 U	<0.639 U	<0.69 U	<0.541 U	<0.614 U	<0.532 U	**17**	<0.626 U	<0.541 U	0.771
Sodium	7440-23-5	NS	NS	NS	NS	mg/kg	NA	159	460	219	155	668	222	121	279	326	1,270	306	238
Thallium	7440-28-0	NS	NS	NS	NS	mg/kg	NA	<2.69 U	<3.48 U	<2.62 U	<3.19 U	<3.45 U	<2.7 U	<3.07 U	<2.66 U	4.62	<3.13 U	<2.7 U	3.7
Vanadium	7440-62-2	NS	NS	NS	NS	mg/kg	NA	32.6	24.5	29.7	20.6	16.2	27.1	29.9	24.8	24.9	26	53	21.3
Zinc	7440-66-6	**109**	2480	10000	10000	mg/kg	NA	**153**	**817**	72.1	**173**	30	**254**	52.4	**181**	**1,540**	42.5	**571**	**1,370**
General Chemistry																			
Solids, Percent	SOLID	NS	NS	NS	NS	Percent	69.9	93.1	71.9	95.4	78.3	72.5	92.5	81.5	94.1	75.3	79.9	92.4	70.6
Perfluorooctanoic acids																			
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	NS	NS	NS	mg/kg	NA	<0.000263 U	<0.000309 U	0.000295	<0.000268 U	<0.000337 U	NA	NA	0.000601	<0.000296 U	<0.000244 U	0.000775	<0.000332 U
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOSA	2355-31-9	NS	NS	NS	NS	mg/kg	NA	<0.000263 U	<0.000309 U	<0.000245 U	<0.000268 U	<0.000337 U	NA	NA	<0.000256 U	<0.000296 U	<0.000244 U	0.000355	<0.000332 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	NS	mg/kg	NA	<0.000263 U	<0.000309 U	<0.000245 U	<0.000268 U	<0.000337 U	NA	NA	<0.000256 U	0.000433	<0.000244 U	<0.000243 U	<0.000332 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	NS	mg/kg	NA	<0.000263 U	<0.000309 U	<0.000245 U	<0.000268 U	<0.000337 U	NA	NA	<0.000256 U	0.00133 J	<0.000244 U	<0.000243 U	0.000846
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	NS	mg/kg	NA	<0.000263 U	<0.000309 U	<0.000245 U	<0.000268 U	<0.000337 U	NA	NA	<0.000256 U	<0.000296 U	<0.000244 U	<0.000243 U	<0.000332 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	NS	mg/kg	NA	<0.000263 U	<0.000309 U	<0.000245 U	<0.000268 U	<0.000337 U	NA	NA	<0.000256 U	<0.000296 U	<0.000244 U	<0.000243 U	<0.000332 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	NS	mg/kg	NA	<0.000263 U	<0.000309 U	<0.000245 U	<0.000268 U	<0.000337 U	NA	NA	<0.000256 U	<0.000296 U	<0.000244 U	<0.000243 U	<0.000332 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	NS	mg/kg	NA	<0.000263 U	<0.000309 U	<0.000245 U	<0.000268 U	<0.000337 U	NA	NA	<0.000256 U	0.00132	<0.000244 U	<0.000243 U	<0.000332 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	NS	mg/kg	NA	<0.000263 U	0.000379	0.000609	<0.000268 U	<0.000337 U	NA	NA	<0.000256 U	<0.000296 U	<0.000244 U	<0.000243 U	<0.000332 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	NS	mg/kg	NA	<0.000263 U	<0.000309 U	<0.000245 U	<0.000268 U	<0.000337 U	NA	NA	<0.000256 U	<0.000296 U	<0.000244 U	<0.000243 U	<0.000332 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	NS	mg/kg	NA	<0.000263 U	<0.000309 U	<0.000245 U	<0.000268 U	<0.000337 U	NA	NA	<0.000256 U	<0.000296 U	<0.000244 U	<0.000243 U	<0.000332 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	NS	mg/kg	NA	<0.000263 U	<0.000309 U	<0.000245 U	<0.000268 U	<0.000337 U	NA	NA	<0.000256 U	<0.000296 U	<0.000244 U	<0.000243 U	<0.000332 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	NS	mg/kg	NA	<0.000263 U	<0.000309 U	<0.000245 U	<0.000268 U	<0.000337 U	NA	NA	<0.000256 U	<0.000296 U	<0.000244 U	<0.000243 U	<0.000332 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.044	0.44	mg/kg	NA	0.000394	**0.0012**	0.000855	**0.0013**	<0.000337 U	NA	NA	<0.000256 U	<0.000296 U	<0.000244 U	**0.00205**	**0.00454**
Perfluorooctanoic Acid (PFOA)	335-67-1	0.00066	0.0011	0.033	0.5	mg/kg	NA	<0.000263 U	<0.000309 U	<0.000245 U	<0.000268 U	<0.000337 U	NA	NA	<0.000256 U	<0.000296 U	<0.000244 U	<0.000243 U	<0.000332 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	NS	mg/kg	NA	<0.000263 U	<0.000309 U	<0.000245 U	<0.000268 U	<0.000337 U	NA	NA	<0.000256 U	<0.000296 U	<0.000244 U	<0.000243 U	<0.000332 U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	NS	mg/kg	NA	<0.000263 U	<0.000309 U	<0.000245 U	<0.000268 U	<0.000337 U	NA	NA	<0.000256 U	<0.000296 U	<0.000244 U	<0.000243 U	<0.000332 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	NS	mg/kg	NA	<0.000263 U	<0.000309 U	<0.000245 U	<0.000268 U	<0.000337 U	NA	NA	<0.000256 U	<0.000296 U	<0.000244 U	<0.000243 U	<0.000332 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	NS	mg/kg	NA	<0.000263 U	<0.000309 U	<0.000245 U	<0.000268 U	<0.000337 U	NA	NA	<0.000256 U	<0.000296 U	<0.000244 U	<0.000243 U	<0.000332 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FTS	39108-34-4	NS	NS	NS	NS	mg/kg	NA	<0.000263 U	<0.000309 U	<0.000245 U	<0.000268 U	<0.000337 U	NA	NA	<0.000256 U	<0.000296 UJ	<0.000244 U	<0.000243 U	<0.000332 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FTS	27619-97-2	NS	NS	NS	NS	mg/kg	NA	<0.000263 U	<0.000309 U	<0.000245 U	<0.000268 U	<0.000337 U	NA	NA	<0.000256 U	<0.000296 UJ	<0.000244 U	<0.000243 U	<0.000332 U

Notes provided on Page 16.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3D
Remedial Investigation Report
Soil Sample Analytical Results - Block 1823 (H)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	H-SB106	H-SB106	H-SB106	H-SB107	H-SB107	H-SB108	H-SB108	H-SB108	H-SB109	H-SB109	H-SB110	H-SB110	H-SB111	H-SB111
						Sample Name	H-SB106_0-2	H-SB106_7-9	H-SB106_12-14	H-SB107_0-2	H-SB107_6-8	H-SB108_0-2	DUP16_100621	H-SB108_6-8	H-SB109_0-2	H-SB109_5-7	H-SB110_0-2	H-SB110_7-9	H-SB111_0-2	DUP17_100721
						Sample Date	10/06/2021	10/06/2021	10/06/2021	10/05/2021	10/05/2021	10/06/2021	10/06/2021	10/06/2021	10/06/2021	10/06/2021	10/07/2021	10/07/2021	10/07/2021	10/07/2021
						Sample Depth	0-2	7-9	12-14	0-2	6-8	0-2	0-2	6-8	0-2	5-7	0-2	7-9	0-2	0-2
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																				
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	NS	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	500	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	0.0024 J	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	NS	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	NS	NS	NS	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	NS	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
1,1-Dichloroethane	75-34-3	0.27	0.27	26	240	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
1,1-Dichloroethene	75-35-4	0.33	0.33	100	500	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	NS	mg/kg	<0.0022 UJ	<0.0028 UJ	<0.0035 UJ	<0.0021 UJ	<0.0021 UJ	<0.0022 U	<0.0027 U	<0.0026 UJ	<0.0024 UJ	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	NS	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	NS	mg/kg	<0.0022 UJ	<0.0028 UJ	<0.0035 UJ	<0.0021 UJ	<0.0021 UJ	<0.0022 U	<0.0027 U	<0.0026 UJ	<0.0024 UJ	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
1,2,4-Trimethylbenzene	95-63-6	**3.6**	3.6	52	190	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	NS	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	NS	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	500	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 UJ	<0.0026 UJ	<0.0023 U	<0.27 U
1,2-Dichloroethane	107-06-2	0.02	0.02	3.1	30	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	NS	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	52	190	mg/kg	<0.0022 UJ	<0.0028 UJ	<0.0035 UJ	<0.0021 UJ	<0.0021 UJ	<0.0022 U	<0.0027 U	<0.0026 UJ	<0.0024 UJ	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	280	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 UJ	<0.0026 UJ	<0.0023 U	<0.27 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	130	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 UJ	<0.0026 UJ	<0.0023 U	<0.27 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.043 U	<0.056 U	<0.069 U	<0.042 U	<0.043 U	<0.044 U	<0.054 U	<0.053 U	<0.049 U	<0.053 U	<0.047 U	<0.052 U	<0.045 U	<5.4 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	NS	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
Acetone	67-64-1	**0.05**	0.05	100	500	mg/kg	0.0069 J	<0.0056 U	0.036	0.017 J	<0.0043 U	0.012	0.0078 J	<0.0053 U	0.031	0.047	0.033	0.039	0.016	**1.2 D**
Acrolein	107-02-8	NS	NS	NS	NS	mg/kg	<0.0043 U	<0.0056 U	<0.0069 U	<0.0042 U	<0.0043 U	<0.0044 UJ	<0.0054 U	<0.0053 U	<0.0049 U	<0.0053 UJ	<0.0047 U	<0.0052 U	<0.0045 U	<0.54 U
Acrylonitrile	107-13-1	NS	NS	NS	NS	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
Benzene	71-43-2	0.06	0.06	4.8	44	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
Bromochloromethane	74-97-5	NS	NS	NS	NS	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
Bromodichloromethane	75-27-4	NS	NS	NS	NS	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
Bromoform	75-25-2	NS	NS	NS	NS	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 UJ	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 UJ	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
Bromomethane	74-83-9	NS	NS	NS	NS	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
Carbon Disulfide	75-15-0	NS	NS	NS	NS	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
Carbon Tetrachloride	56-23-5	0.76	0.76	2.4	22	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
Chlorobenzene	108-90-7	1.1	1.1	100	500	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
Chloroethane	75-00-3	NS	NS	NS	NS	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 UJ	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
Chloroform	67-66-3	0.37	0.37	49	350	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
Chloromethane	74-87-3	NS	NS	NS	NS	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	100	500	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	NS	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
Cyclohexane	110-82-7	NS	NS	NS	NS	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	0.0076	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
Dibromochloromethane	124-48-1	NS	NS	NS	NS	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
Dibromomethane	74-95-3	NS	NS	NS	NS	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	NS	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
Ethylbenzene	100-41-4	**1**	1	41	390	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0022 UJ	<0.0028 UJ	<0.0035 UJ	<0.0021 UJ	<0.0021 UJ	<0.0022 U	<0.0027 U	<0.0026 UJ	<0.0024 UJ	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	NS	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 UJ	<0.0021 UJ	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
M,P-Xylene	179601-23-1	NS	NS	NS	NS	mg/kg	<0.0043 U	<0.0056 U	<0.0069 U	<0.0042 U	<0.0043 U	<0.0044 U	<0.0054 U	<0.0053 U	<0.0049 U	<0.0053 U	<0.0047 U	<0.0052 U	<0.0045 U	<0.54 U
Methyl Acetate	79-20-9	NS	NS	NS	NS	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	0.29 JD
Methyl Ethyl Ketone (2-Butanone)	78-93-3	0.12	0.12	100	500	mg/kg	<0.0022 U	<0.0028 U	0.0071	0.003 J	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	0.0058	0.0078	0.0052	0.0072	<0.0023 U	<0.27 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	NS	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
Methylcyclohexane	108-87-2	NS	NS	NS	NS	mg/kg	<0.0022 UJ	<0.0028 UJ	<0.0035 UJ	<0.0021 UJ	<0.0021 UJ	<0.0022 U	<0.0027 U	<0.0026 UJ	0.0047 J	<0.0026 U	<0.0024 U	<0.0026 U	0.01	0.29 JD
Methylene Chloride	75-09-2	0.05	0.05	100	500	mg/kg	<0.0043 U	<0.0056 U	<0.0069 U	<0.0042 U	<0.0043 U	<0.0044 U	<0.0054 U	<0.0053 U	0.0065 J	<0.0053 U	<0.0047 U	<0.0052 U	<0.0045 U	<0.54 U
n-Butylbenzene	104-51-8	12	12	100	500	mg/kg	<0.0022 UJ	<0.0028 UJ	<0.0035 UJ	<0.0021 UJ	<0.0021 UJ	<0.0022 U	<0.0027 U	<0.0026 UJ	<0.0024 UJ	<0.0026 U	<0.0024 U	<0.0026 U	0.003 J	0.32 JD
n-Propylbenzene	103-65-1	3.9	3.9	100	500	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	0.0032 J	<0.27 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	NS	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	0.0045	<0.27 U
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	NS	NS	mg/kg	<0.0022 UJ	<0.0028 UJ	<0.0035 UJ	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 UJ	<0.0024 UJ	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
Sec-Butylbenzene	135-98-8	11	11	100	500	mg/kg	<0.0022 UJ	<0.0028 UJ	<0.0035 UJ	<0.0021 UJ	<0.0021 UJ	<0.0022 U	<0.0027 U	<0.0026 UJ	<0.0024 UJ	<0.0026 U	<0.0024 U	<0.0026 U	0.0055	<0.27 U
Styrene	100-42-5	NS	NS	NS	NS	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
T-Butylbenzene	98-06-6	5.9	5.9	100	500	mg/kg	<0.0022 UJ	<0.0028 UJ	<0.0035 UJ	<0.0021 UJ	<0.0021 UJ	<0.0022 U	<0.0027 U	<0.0026 UJ	<0.0024 UJ	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
Tert-Butyl Alcohol	75-65-0	NS	NS	NS	NS	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	100	500	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	19	150	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 UJ	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 UJ	<0.0026 UJ	<0.0023 U	<0.27 U
Toluene	108-88-3	0.7	0.7	100	500	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	0.3 JD
Total Xylenes	1330-20-7	**0.26**	1.6	100	500	mg/kg	<0.0065 U	<0.0083 U	<0.01 U	<0.0063 U	<0.0064 U	<0.0067 U	<0.008 U	<0.0079 U	<0.0073 U	<0.0079 U	<0.0071 U	<0.0078 U	<0.0068 U	<0.82 U
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	100	500	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	NS	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 UJ
Trichloroethene (TCE)	79-01-6	0.47	0.47	21	200	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	NS	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 UJ
Vinyl Chloride	75-01-4	**0.02**	0.02	0.9	13	mg/kg	<0.0022 U	<0.0028 U	<0.0035 U	<0.0021 U	<0.0021 U	<0.0022 U	<0.0027 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0024 U	<0.0026 U	<0.0023 U	<0.27 UJ

Notes provided on Page 16.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3D
Remedial Investigation Report
Soil Sample Analytical Results - Block 1823 (H)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	H-SB106	H-SB106	H-SB106	H-SB107	H-SB107	H-SB108	H-SB108	H-SB108	H-SB109	H-SB109	H-SB110	H-SB110	H-SB111	H-SB111
						Sample Name	H-SB106_0-2	H-SB106_7-9	H-SB106_12-14	H-SB107_0-2	H-SB107_6-8	H-SB108_0-2	DUP16_100621	H-SB108_6-8	H-SB109_0-2	H-SB109_5-7	H-SB110_0-2	H-SB110_7-9	H-SB111_0-2	DUP17_100721
						Sample Date	10/06/2021	10/06/2021	10/06/2021	10/05/2021	10/05/2021	10/06/2021	10/06/2021	10/06/2021	10/06/2021	10/06/2021	10/07/2021	10/07/2021	10/07/2021	10/07/2021
						Sample Depth	0-2	7-9	12-14	0-2	6-8	0-2	0-2	6-8	0-2	5-7	0-2	7-9	0-2	0-2
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																				
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	NS	mg/kg	<0.0901 U	<0.0951 U	<0.131 U	<0.0868 U	<0.0911 U	<0.09 U	<0.0902 U	<0.0929 U	<0.0916 U	<0.125 U	<0.0969 U	<0.096 U	<0.0887 U	<0.0897 U
1,2-Diphenylhydrazine	122-66-7	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.0196 U	<0.0196 U	<0.0196 U	<0.0187 U	<0.0196 U	<0.0196 U	<0.0196 U	<0.0196 U	<0.0196 U	<0.0196 U	<0.0196 U	<0.0192 U	<0.019 U	<0.0194 U
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	NS	mg/kg	<0.0901 U	<0.0951 U	<0.131 U	<0.0868 U	<0.0911 U	<0.09 U	<0.0902 U	<0.0929 U	<0.0916 U	<0.125 U	<0.0969 U	<0.096 U	<0.0887 U	<0.0897 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	NS	mg/kg	<0.0901 U	<0.0951 U	<0.131 U	<0.0868 U	<0.0911 U	<0.09 U	<0.0902 U	<0.0929 U	<0.0916 U	<0.125 U	<0.0969 U	<0.096 U	<0.0887 U	<0.0897 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
2-Chlorophenol	95-57-8	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	NS	mg/kg	0.0634 JD	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	0.072 JD	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	0.079 JD	0.134 D	0.136 D	0.28 D
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	500	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
2-Nitroaniline	88-74-4	NS	NS	NS	NS	mg/kg	<0.0901 U	<0.0951 U	<0.131 U	<0.0868 U	<0.0911 U	<0.09 U	<0.0902 U	<0.0929 U	<0.0916 U	<0.125 U	<0.0969 U	<0.096 U	<0.0887 U	<0.0897 U
2-Nitrophenol	88-75-5	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	0.33	0.33	100	500	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
3-Nitroaniline	99-09-2	NS	NS	NS	NS	mg/kg	<0.0901 U	<0.0951 U	<0.131 U	<0.0868 U	<0.0911 U	<0.09 U	<0.0902 U	<0.0929 U	<0.0916 U	<0.125 U	<0.0969 U	<0.096 U	<0.0887 U	<0.0897 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	NS	mg/kg	<0.0901 U	<0.0951 U	<0.131 U	<0.0868 U	<0.0911 U	<0.09 U	<0.0902 U	<0.0929 U	<0.0916 U	<0.125 U	<0.0969 U	<0.096 U	<0.0887 U	<0.0897 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
4-Chloroaniline	106-47-8	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
4-Nitroaniline	100-01-6	NS	NS	NS	NS	mg/kg	<0.0901 U	<0.0951 U	<0.131 U	<0.0868 U	<0.0911 U	<0.09 U	<0.0902 U	<0.0929 U	<0.0916 U	<0.125 U	<0.0969 U	<0.096 U	<0.0887 U	<0.0897 U
4-Nitrophenol	100-02-7	NS	NS	NS	NS	mg/kg	<0.0901 U	<0.0951 U	<0.131 U	<0.0868 U	<0.0911 U	<0.09 U	<0.0902 U	<0.0929 U	<0.0916 U	<0.125 U	<0.0969 U	<0.096 U	<0.0887 U	<0.0897 U
Acenaphthene	83-32-9	20	98	100	500	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	0.127 D	0.109 D	<0.0466 U	<0.0459 U	0.171 D	<0.0486 U	0.302 D	0.0503 JD	0.126 D
Acenaphthylene	208-96-8	100	107	100	500	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	0.143 J	0.563 J	<0.0466 U	<0.0459 U	<0.0628 U	0.0503 JD	0.264 D	0.0666 JD	0.119 D
Acetophenone	98-86-2	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	NS	NS	NS	mg/kg	<0.18 U	<0.191 U	<0.262 U	<0.174 U	<0.182 U	<0.18 U	<0.181 U	<0.186 U	<0.184 U	<0.251 U	<0.194 U	<0.192 U	<0.178 U	<0.18 U
Anthracene	120-12-7	100	1000	100	500	mg/kg	0.182 D	<0.0477 U	<0.0655 U	0.0562 JD	<0.0456 U	0.402 J	0.878 J	<0.0466 U	0.129 D	0.321 D	0.154 D	0.826 D	0.0971 D	0.212 D
Atrazine	1912-24-9	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
Benzaldehyde	100-52-7	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	0.0706 JD	<0.0445 U	<0.045 U
Benzidine	92-87-5	NS	NS	NS	NS	mg/kg	<0.18 U	<0.191 U	<0.262 U	<0.174 U	<0.182 U	<0.18 U	<0.181 U	<0.186 U	<0.184 U	<0.251 U	<0.194 U	<0.192 U	<0.178 U	<0.18 U
Benzo(a)anthracene	56-55-3	**1**	1	1	5.6	mg/kg	0.518 D	0.0852 JD	<0.0655 U	0.162 D	0.051 JD	**1.14 J**	**2.4 J**	0.406 D	0.365 D	0.678 D	0.542 D	**1.59 D**	0.24 D	0.361 D
Benzo(a)pyrene	50-32-8	**1**	22	1	1	mg/kg	0.549 D	0.0943 JD	<0.0655 U	0.143 D	0.0466 JD	**1.25 J**	**2.12 J**	0.711 D	0.372 D	0.586 D	0.627 D	**1.47 D**	0.234 J	0.406 J
Benzo(b)fluoranthene	205-99-2	**1**	1.7	1	5.6	mg/kg	0.444 D	0.0791 JD	<0.0655 U	0.124 D	<0.0456 U	**1.1 J**	**1.98 J**	0.599 D	0.302 D	0.44 D	0.507 D	**1.1 D**	0.206 J	0.359 J
Benzo(g,h,i)Perylene	191-24-2	100	1000	100	500	mg/kg	0.382 D	0.0532 JD	<0.0655 U	0.0742 JD	<0.0456 U	1.06 D	1.09 D	0.572 D	0.256 D	0.306 D	0.318 D	0.626 D	0.119 D	0.191 D
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	3.9	56	mg/kg	0.423 D	0.0707 JD	<0.0655 U	0.101 D	<0.0456 U	0.71 J	**1.67 J**	0.5 D	0.282 D	0.484 D	0.49 D	**1.16 D**	0.207 J	0.359 J
Benzoic Acid	65-85-0	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
Benzyl Alcohol	100-51-6	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	0.0489 JD	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	NS	mg/kg	0.147 D	<0.0477 U	<0.0655 U	0.113 D	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	0.118 D	0.0681 JD	0.18 D	<0.0481 U	0.0936 J	0.285 J
Caprolactam	105-60-2	NS	NS	NS	NS	mg/kg	<0.0901 U	<0.0951 U	<0.131 U	<0.0868 U	<0.0911 U	<0.09 U	<0.0902 U	<0.0929 U	<0.0916 U	<0.125 U	<0.0969 U	<0.096 U	<0.0887 U	<0.0897 U
Carbazole	86-74-8	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	0.181 D	0.19 D	<0.0466 U	<0.0459 U	0.0842 JD	<0.0486 U	0.322 D	<0.0445 U	<0.045 U
Chrysene	218-01-9	**1**	1	3.9	56	mg/kg	0.505 D	0.0654 JD	<0.0655 U	0.137 D	0.0488 JD	0.941 J	**2.32 J**	0.476 D	0.353 D	0.589 D	0.562 D	**1.63 D**	0.236 D	0.384 D
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.33	0.56	mg/kg	0.12 D	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	**0.404 D**	**0.442 D**	0.189 D	0.0777 JD	0.108 JD	0.103 D	0.244 D	<0.0445 U	<0.045 U
Dibenzofuran	132-64-9	7	210	59	350	mg/kg	0.0677 JD	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	0.101 D	0.0627 JD	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	0.222 D	<0.0445 U	<0.045 U
Dibutyl phthalate	84-74-2	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	0.0454 JD	0.115 D
Diethyl phthalate	84-66-2	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
Dimethyl phthalate	131-11-3	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
Dioctyl phthalate	117-84-0	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
Diphenylamine	122-39-4	NS	NS	NS	NS	mg/kg	<0.0901 U	<0.0951 U	<0.131 U	<0.0868 U	<0.0911 U	<0.09 U	<0.0902 U	<0.0929 U	<0.0916 U	<0.125 U	<0.0969 U	<0.096 U	<0.0887 U	<0.0897 U
Fluoranthene	206-44-0	100	1000	100	500	mg/kg	0.935 D	<0.0477 U	<0.0655 U	0.306 D	<0.0456 U	2.09 J	5.57 J	0.276 D	0.697 D	1.28 D	0.854 D	2.49 D	0.396 J	0.691 J
Fluorene	86-73-7	30	386	100	500	mg/kg	0.0864 JD	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	0.146 D	0.226 D	<0.0466 U	0.0535 JD	0.204 D	0.0658 JD	0.42 D	0.0737 JD	0.203 D
Hexachlorobenzene	118-74-1	0.33	3.2	1.2	6	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 UJ	<0.0456 UJ	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 UJ	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
Hexachloroethane	67-72-1	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	0.5	5.6	mg/kg	0.3 D	<0.0477 U	<0.0655 U	0.112 D	<0.0456 U	**1.36 D**	**1.39 D**	0.488 D	0.231 D	0.301 D	0.291 D	**0.57 D**	0.109 D	0.173 D
Isophorone	78-59-1	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
Naphthalene	91-20-3	12	12	100	500	mg/kg	0.0814 JD	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	0.128 D	0.0562 JD	<0.0466 U	<0.0459 U	<0.0628 U	0.0806 JD	0.181 D	0.0936 D	0.213 D
Nitrobenzene	98-95-3	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
n-Nitrosodimethylamine	62-75-9	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	NS	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	6.7	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
Phenanthrene	85-01-8	100	1000	100	500	mg/kg	0.629 D	<0.0477 U	<0.0655 U	0.165 D	<0.0456 U	1.34 J	2.81 J	0.0542 JD	0.415 D	1.1 D	0.442 D	3.32 D	0.298 J	0.622 J
Phenol	108-95-2	0.33	0.33	100	500	mg/kg	<0.0452 U	<0.0477 U	<0.0655 U	<0.0435 U	<0.0456 U	<0.0451 U	<0.0452 U	<0.0466 U	<0.0459 U	<0.0628 U	<0.0486 U	<0.0481 U	<0.0445 U	<0.045 U
Pyrene	129-00-0	100	1000	100	500	mg/kg	1.09 D	0.0692 JD	<0.0655 U	0.26 D	0.0568 JD	1.85 J	4.78 J	0.436 D	0.777 D	1.38 D	0.978 D	3.29 D	0.403 J	0.69 J
Pyridine	110-86-1	NS	NS	NS	NS	mg/kg	<0.18 U	<0.191 U	<0.262 U	<0.174 U	<0.182 U	<0.18 U	<0.181 U	<0.186 U	<0.184 U	<0.251 U	<0.194 U	<0.192 U	<0.178 U	<0.18 U

Notes provided on Page 16.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3D
Remedial Investigation Report
Soil Sample Analytical Results - Block 1823 (H)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	H-SB106	H-SB106	H-SB106	H-SB107	H-SB107	H-SB108	H-SB108	H-SB108	H-SB109	H-SB109	H-SB110	H-SB110	H-SB111	H-SB111
						Sample Name	H-SB106_0-2	H-SB106_7-9	H-SB106_12-14	H-SB107_0-2	H-SB107_6-8	H-SB108_0-2	DUP16_100621	H-SB108_6-8	H-SB109_0-2	H-SB109_5-7	H-SB110_0-2	H-SB110_7-9	H-SB111_0-2	DUP17_100721
						Sample Date	10/06/2021	10/06/2021	10/06/2021	10/05/2021	10/05/2021	10/06/2021	10/06/2021	10/06/2021	10/06/2021	10/06/2021	10/07/2021	10/07/2021	10/07/2021	10/07/2021
						Sample Depth	0-2	7-9	12-14	0-2	6-8	0-2	0-2	6-8	0-2	5-7	0-2	7-9	0-2	0-2
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Petroleum Hydrocarbons																				
Total Petroleum Hydrocarbons	TPH	NS	NS	NS	NS	UNKNOWN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides																				
4,4'-DDD	72-54-8	**0.0033**	14	13	92	mg/kg	**0.0153 D**	<0.00189 U	<0.00258 U	**0.016 D**	<0.00177 U	<0.00178 U	<0.00177 U	<0.00181 U	**0.0139 D**	<0.00246 U	**0.016 D**	<0.00187 U	**0.00889 J**	<0.00175 UJ
4,4'-DDE	72-55-9	**0.0033**	17	8.9	62	mg/kg	**0.0186 D**	<0.00189 U	<0.00258 U	**0.0198 D**	<0.00177 U	<0.00178 U	<0.00177 U	<0.00181 U	**0.00578 D**	<0.00246 U	<0.00188 U	<0.00187 U	<0.00174 U	<0.00175 U
4,4'-DDT	50-29-3	**0.0033**	136	7.9	47	mg/kg	**0.00942 D**	<0.00189 U	<0.00258 U	**0.006 D**	<0.00177 U	<0.00178 U	<0.00177 U	<0.00181 U	**0.0299 D**	<0.00246 U	<0.00188 U	<0.00187 U	**0.0259 J**	<0.00175 UJ
Aldrin	309-00-2	0.005	0.19	0.097	0.68	mg/kg	<0.00178 U	<0.00189 U	<0.00258 U	<0.00169 U	<0.00177 U	<0.00178 U	<0.00177 U	<0.00181 U	<0.00181 U	<0.00246 U	<0.00188 U	<0.00187 U	<0.00174 U	<0.00175 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	0.48	3.4	mg/kg	<0.00178 U	<0.00189 U	<0.00258 U	<0.00169 U	<0.00177 U	<0.00178 U	<0.00177 U	<0.00181 U	<0.00181 U	<0.00246 U	<0.00188 U	<0.00187 U	<0.00174 U	<0.00175 U
Alpha Chlordane	5103-71-9	0.094	2.9	4.2	24	mg/kg	0.0119 D	<0.00189 U	<0.00258 U	0.0287 D	<0.00177 U	<0.00178 U	<0.00177 U	<0.00181 U	<0.00181 U	<0.00246 U	<0.00188 U	<0.00187 U	<0.00174 U	<0.00175 U
Alpha Endosulfan	959-98-8	2.4	102	24	200	mg/kg	<0.00178 U	<0.00189 U	<0.00258 U	<0.00169 U	<0.00177 U	<0.00178 U	<0.00177 U	<0.00181 U	<0.00181 U	<0.00246 U	<0.00188 U	<0.00187 U	<0.00174 U	<0.00175 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	0.36	3	mg/kg	<0.00178 U	<0.00189 U	<0.00258 U	<0.00169 U	<0.00177 U	<0.00178 U	<0.00177 U	<0.00181 U	<0.00181 U	<0.00246 U	<0.00188 U	<0.00187 U	<0.00174 U	<0.00175 U
Beta Endosulfan	33213-65-9	2.4	102	24	200	mg/kg	<0.00178 U	<0.00189 U	<0.00258 U	<0.00169 U	<0.00177 U	<0.00178 U	<0.00177 U	<0.00181 U	<0.00181 U	<0.00246 U	<0.00188 U	<0.00187 U	<0.00174 U	<0.00175 U
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	NS	mg/kg	0.0732 D	<0.0379 U	<0.0517 U	0.13 D	<0.0353 U	<0.0355 U	<0.0353 U	<0.0362 U	<0.0361 U	<0.0491 U	<0.0376 U	<0.0375 U	<0.0347 U	<0.035 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	100	500	mg/kg	<0.00178 U	<0.00189 U	<0.00258 U	<0.00169 U	<0.00177 U	<0.00178 U	<0.00177 U	<0.00181 U	<0.00181 U	<0.00246 U	<0.00188 U	<0.00187 U	<0.00174 U	<0.00175 U
Dieldrin	60-57-1	**0.005**	0.1	0.2	1.4	mg/kg	**0.0141 D**	<0.00189 U	<0.00258 U	**0.00767 D**	<0.00177 U	<0.00178 UJ	**0.00664 J**	<0.00181 U	<0.00181 U	<0.00246 U	<0.00188 U	<0.00187 U	**0.0103 J**	<0.00175 UJ
Endosulfan Sulfate	1031-07-8	2.4	1000	24	200	mg/kg	<0.00178 U	<0.00189 U	<0.00258 U	<0.00169 U	<0.00177 U	<0.00178 U	<0.00177 U	<0.00181 U	<0.00181 U	<0.00246 U	<0.00188 U	<0.00187 U	<0.00174 U	<0.00175 U
Endrin	72-20-8	0.014	0.06	11	89	mg/kg	<0.00178 U	<0.00189 U	<0.00258 U	<0.00169 U	<0.00177 U	<0.00178 U	<0.00177 U	<0.00181 U	<0.00181 U	<0.00246 U	<0.00188 U	<0.00187 U	<0.00174 U	<0.00175 U
Endrin Aldehyde	7421-93-4	NS	NS	NS	NS	mg/kg	<0.00178 U	<0.00189 U	<0.00258 U	<0.00169 U	<0.00177 U	<0.00178 U	<0.00177 U	<0.00181 U	<0.00181 U	<0.00246 U	<0.00188 U	<0.00187 U	<0.00174 U	<0.00175 U
Endrin Ketone	53494-70-5	NS	NS	NS	NS	mg/kg	<0.00178 U	<0.00189 U	<0.00258 U	<0.00169 U	<0.00177 U	<0.00178 U	<0.00177 U	<0.00181 U	<0.00181 U	<0.00246 U	<0.00188 U	<0.00187 U	<0.00174 U	<0.00175 U
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	1.3	9.2	mg/kg	<0.00178 U	<0.00189 U	<0.00258 U	<0.00169 U	<0.00177 U	<0.00178 U	<0.00177 U	<0.00181 U	<0.00181 U	<0.00246 U	<0.00188 U	<0.00187 U	<0.00174 U	<0.00175 U
Gamma-Chlordane	5566-34-7	NS	NS	NS	NS	mg/kg	0.0167 D	<0.00189 U	<0.00258 U	0.0303 D	<0.00177 U	<0.00178 U	<0.00177 U	<0.00181 U	<0.00181 U	<0.00246 U	<0.00188 U	<0.00187 U	<0.00174 U	<0.00175 U
Heptachlor	76-44-8	0.042	0.38	2.1	15	mg/kg	<0.00178 U	<0.00189 U	<0.00258 U	<0.00169 U	<0.00177 U	<0.00178 U	<0.00177 U	<0.00181 U	<0.00181 U	<0.00246 U	<0.00188 U	<0.00187 U	<0.00174 U	<0.00175 U
Heptachlor Epoxide	1024-57-3	NS	NS	NS	NS	mg/kg	<0.00178 U	<0.00189 U	<0.00258 U	<0.00169 U	<0.00177 U	<0.00178 U	<0.00177 U	<0.00181 U	<0.00181 U	<0.00246 U	<0.00188 U	<0.00187 U	<0.00174 U	<0.00175 U
Methoxychlor	72-43-5	NS	NS	NS	NS	mg/kg	<0.00178 U	<0.00189 U	<0.00258 U	<0.00169 U	<0.00177 U	<0.00178 U	<0.00177 U	<0.00181 U	<0.00181 U	<0.00246 U	<0.00188 U	<0.00187 U	<0.00174 U	<0.00175 U
Toxaphene	8001-35-2	NS	NS	NS	NS	mg/kg	<0.178 U	<0.189 U	<0.258 U	<0.169 U	<0.177 U	<0.178 U	<0.177 U	<0.181 U	<0.181 U	<0.246 U	<0.188 U	<0.187 U	<0.174 U	<0.175 U
Herbicides																				
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	NS	mg/kg	<0.0215 U	<0.023 U	<0.0308 U	<0.0209 U	<0.0218 U	<0.0214 U	<0.0218 U	<0.0219 U	<0.0218 U	<0.0303 U	<0.0232 U	<0.0229 U	<0.0213 U	<0.0214 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	NS	mg/kg	<0.0215 U	<0.023 U	<0.0308 U	<0.0209 U	<0.0218 U	<0.0214 U	<0.0218 U	<0.0219 U	<0.0218 U	<0.0303 U	<0.0232 U	<0.0229 U	<0.0213 U	<0.0214 U
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	100	500	mg/kg	<0.0215 U	<0.023 U	<0.0308 U	<0.0209 U	<0.0218 U	<0.0214 U	<0.0218 U	<0.0219 U	<0.0218 U	<0.0303 U	<0.0232 U	<0.0229 U	<0.0213 U	<0.0214 U
Polychlorinated Biphenyl																				
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	NS	mg/kg	<0.018 U	<0.0191 U	<0.0261 U	<0.0171 UJ	<0.0178 U	<0.0179 U	<0.0178 U	<0.0183 U	<0.0182 U	<0.0248 U	<0.019 U	<0.0189 U	<0.0175 U	<0.0177 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	NS	mg/kg	<0.018 U	<0.0191 U	<0.0261 U	<0.0171 UJ	<0.0178 U	<0.0179 U	<0.0178 U	<0.0183 U	<0.0182 U	<0.0248 U	<0.019 U	<0.0189 U	<0.0175 U	<0.0177 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	NS	mg/kg	<0.018 U	<0.0191 U	<0.0261 U	<0.0171 UJ	<0.0178 U	<0.0179 U	<0.0178 U	<0.0183 U	<0.0182 U	<0.0248 U	<0.019 U	<0.0189 U	<0.0175 U	<0.0177 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	NS	mg/kg	<0.018 U	<0.0191 U	<0.0261 U	<0.0171 UJ	<0.0178 U	<0.0179 U	<0.0178 U	<0.0183 U	<0.0182 U	<0.0248 U	<0.019 U	<0.0189 U	<0.0175 U	<0.0177 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	NS	mg/kg	<0.018 U	<0.0191 U	<0.0261 U	<0.0171 UJ	<0.0178 U	<0.0179 U	<0.0178 U	<0.0183 U	<0.0182 U	<0.0248 U	<0.019 U	<0.0189 U	0.235	0.165
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	NS	mg/kg	<0.018 U	<0.0191 U	<0.0261 U	<0.0171 UJ	<0.0178 U	<0.0179 U	<0.0178 U	<0.0183 U	<0.0182 U	<0.0248 U	<0.019 U	<0.0189 U	<0.0175 U	<0.0177 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	NS	mg/kg	0.0259	<0.0191 U	<0.0261 U	<0.0171 UJ	<0.0178 U	<0.0179 U	<0.0178 U	<0.0183 U	<0.0182 U	<0.0248 U	<0.019 U	<0.0189 U	0.0795	0.058
Total PCBs	1336-36-3	**0.1**	3.2	1	1	mg/kg	0.0259	<0.0191 U	<0.0261 U	<0.0171 UJ	<0.0178 U	<0.0179 U	<0.0178 U	<0.0183 U	<0.0182 U	<0.0248 U	<0.019 U	<0.0189 U	**0.314**	**0.223**
Metals																				
Aluminum	7429-90-5	NS	NS	NS	NS	mg/kg	10,200	3,860	18,000	6,100	2,870	3,910	4,610	1,780	7,850	15,200	7,020	2,550	7,280	6,300
Antimony	7440-36-0	NS	NS	NS	NS	mg/kg	<2.72 U	<2.88 U	<3.96 U	<2.64 U	<2.74 U	<2.71 UJ	<2.75 U	<2.81 U	<2.77 U	4.06	<2.92 U	<2.9 U	<2.69 UJ	<2.71 U
Arsenic	7440-38-2	**13**	16	16	16	mg/kg	7.41	4.68	5.48	7.16	8.21	3.83	2.91	3.14	2.71	<2.25 U	5.07	3.28	**14.8**	10.3
Barium	7440-39-3	**350**	820	400	400	mg/kg	115	31.1	54.8	42.7	31.6	42.8 J	48.9	18.9	78.2	91.3	137	108	**582 J**	152 J
Beryllium	7440-41-7	7.2	47	72	590	mg/kg	<0.054 U	0.213	<0.079 U	<0.053 U	0.259	<0.054 U	<0.055 U	<0.056 U	<0.055 U	<0.076 U	<0.058 U	<0.058 U	<0.054 U	<0.054 U
Cadmium	7440-43-9	**2.5**	7.5	4.3	9.3	mg/kg	1.33	<0.346 U	0.483	<0.316 U	<0.329 U	0.355	0.421	<0.337 U	0.494	1.43	0.955	0.462	1.58	1.5
Calcium	7440-70-2	NS	NS	NS	NS	mg/kg	17,700 B	6,070 B	11,800 B	10,800 B	26,900 B	5,370	6,120 B	5,650 B	23,800 B	7,480 B	15,900	5,860	52,900 J	28,200 J
Chromium, Hexavalent	18540-29-9	1	19	110	400	mg/kg	<0.544 U	<0.576 U	<0.791 U	<0.527 U	<0.548 U	<0.542 UJ	<0.55 U	<0.562 U	<0.553 U	<0.759 U	<0.585 U	<0.579 U	<0.537 U	<0.542 U
Chromium, Total	7440-47-3	NS	NS	NS	NS	mg/kg	32.9	6.6	33	11.5	8.43	11.8	10.9	4.77	13.9	32.8	15.3	47	18.9 J	23
Chromium, Trivalent	16065-83-1	**30**	NS	180	1500	mg/kg	**32.9**	6.6	**33**	11.5	8.43	11.8	10.9	4.77	13.9	**32.8**	15.3	**47**	18.9	23
Cobalt	7440-48-4	NS	NS	NS	NS	mg/kg	5.39	5.37	11.9	3.08	4.22	4.17	3.77	2.67	6.38	11.8	5.21	3.65	6.14	6.75
Copper	7440-50-8	**50**	1720	270	270	mg/kg	**93.5**	12.4	13	**151**	16.6	38	**63**	4.62	**52.1**	**82.5**	**65.5**	12.9	**60.3**	**79.4**
Cyanide	57-12-5	27	40	27	27	mg/kg	<0.544 U	<0.576 U	<0.791 U	<0.527 U	<0.548 U	<0.542 UJ	<0.55 U	<0.562 U	<0.553 U	<0.759 U	<0.585 U	<0.579 U	<0.537 U	<0.542 U
Iron	7439-89-6	NS	NS	NS	NS	mg/kg	14,600	7,360	31,200	7,760	6,250	11,900	11,200	4,570	14,300	26,400	14,200	8,450	16,400	16,700
Lead	7439-92-1	**63**	450	400	1000	mg/kg	**209**	9.44	12.3	59.3	14.9	55.4	**77.7**	15.1	**180**	**131**	**281**	**140**	**272**	**235**
Magnesium	7439-95-4	NS	NS	NS	NS	mg/kg	4,320	828	7,850	2,780	1,480	1,460	1,410	732	3,970	3,360	3,300	1,130	14,300	10,500
Manganese	7439-96-5	1600	2000	2000	10000	mg/kg	237	70.2	872	124	178	156 J	191	134	232	347	221	77.4	201	199
Mercury	7439-97-6	**0.18**	0.73	0.81	2.8	mg/kg	**0.292**	<0.0346 U	0.145	0.0521	0.0506	0.0646	0.0509	<0.0337 U	0.142	0.129	0.159	0.105	0.135	0.144
Nickel	7440-02-0	**30**	130	310	310	mg/kg	**36.8 J**	10.2 J	23.8 J	7.65 J	10.2 J	11.8 J	9.48 J	5.66 J	12.3 J	28.5 J	17.2	9.39	15.3 J	14.7
Potassium	7440-09-7	NS	NS	NS	NS	mg/kg	951	325	4,390	672	780	608	607	370	867	1,250	1,050	525	1,470	1,070
Selenium	7782-49-2	**3.9**	4	180	1500	mg/kg	<2.72 U	<2.88 U	<3.96 U	<2.64 U	<2.74 U	<2.71 U	<2.75 U	<2.81 U	<2.77 U	<3.79 U	<2.92 U	<2.9 U	<2.69 U	<2.71 U
Silver	7440-22-4	**2**	8.3	180	1500	mg/kg	<0.544 U	<0.576 U	<0.791 U	<0.527 U	<0.548 U	<0.542 UJ	<0.55 U	<0.562 U	<0.553 U	<0.759 U	<0.585 U	<0.579 U	<0.537 UJ	<0.542 U
Sodium	7440-23-5	NS	NS	NS	NS	mg/kg	143	135	3,430	129	98.8	66.2	72.7	81.8	344	208	125	63.8	422 J	253
Thallium	7440-28-0	NS	NS	NS	NS	mg/kg	<2.72 U	<2.88 U	<3.96 U	<2.64 U	<2.74 U	<2.71 U	<2.75 U	<2.81 U	<2.77 U	<3.79 U	<2.92 U	<2.9 U	<2.69 U	<2.71 U
Vanadium	7440-62-2	NS	NS	NS	NS	mg/kg	37.1	8.01	42.4	16.5	10.2	16.2	15.7	5.39	32.8	41.3	28.8	8.24	26.7	37.2
Zinc	7440-66-6	**109**	2480	10000	10000	mg/kg	**196**	23.4	68.4	**262**	50.8	100	**123**	30.8	87.6	**450**	**180**	**168**	**219**	**208**
General Chemistry																				
Solids, Percent	SOLID	NS	NS	NS	NS	Percent	91.9	86.8	63.2	94.8	91.3	92.3	90.9	88.9	90.4	65.9	85.5	86.3	93.1	92.3
Perfluorooctanoic acids																				
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	NS	NS	NS	mg/kg	<0.000252 U	<0.000256 U	<0.00034 U	<0.000227 U	<0.000251 U	<0.000261 U	<0.000261 U	<0.000204 U	<0.000253 U	<0.000338 U	<0.000273 U	<0.00021 U	<0.000244 U	<0.000227 U
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOSA	2355-31-9	NS	NS	NS	NS	mg/kg	<0.000252 U	<0.000256 U	<0.00034 U	<0.000227 U	<0.000251 U	<0.000261 U	<0.000261 U	<0.000204 U	<0.000253 U	<0.000338 U	<0.000273 U	<0.00021 U	<0.000244 U	<0.000227 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	NS	mg/kg	<0.000252 U	<0.000256 U	<0.00034 U	<0.000227 U	<0.000251 U	<0.000261 U	<0.000261 U	<0.000204 U	<0.000253 U	<0.000338 U	<0.000273 U	<0.00021 U	<0.000244 U	<0.000227 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	NS	mg/kg	<0.000252 U	<0.000256 U	<0.00034 U	<0.000227 U	<0.000251 U	<0.000261 U	0.000278	<0.000204 U	<0.000253 U	0.000532	0.000474	0.00168	0.000357 J	0.00174 J
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	NS	mg/kg	<0.000252 U	<0.000256 U	<0.00034 U	<0.000227 U	<0.000251 U	<0.000261 U	<0.000261 U	<0.000204 U	<0.000253 U	<0.000338 U	<0.000273 U	<0.00021 U	<0.000244 U	<0.000227 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	NS	mg/kg	<0.000252 U	<0.000256 U	<0.00034 U	<0.000227 U	<0.000251 U	<0.000261 U	<0.000261 U	<0.000204 U	<0.000253 U	<0.000338 U	<0.000273 U	<0.00021 U	<0.000244 U	<0.000227 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	NS	mg/kg	<0.000252 U	<0.000256 U	<0.00034 U	<0.000227 U	<0.000251 U	<0.000261 U	<0.000261 U	<0.000204 U	<0.000253 U	<0.000338 U	<0.000273 U	<0.00021 U	<0.000244 U	<0.000227 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	NS	mg/kg	<0.000252 U	<0.000256 U	<0.00034 U	<0.000227 U	<0.000251 U	<0.000261 U	<0.000261 U	<0.000204 U	<0.000253 U	<0.000338 U	<0.000273 U	<0.00021 U	<0.000244 U	<0.000227 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	NS	mg/kg	<0.000252 U	<0.000256 U	<0.00034 U	<0.000227 U	<0.000251 U	<0.000261 U	<0.000261 U	<0.000204 U	<0.000253 U	<0.000338 U	<0.000273 U	<0.00021 U	<0.000244 U	<0.000227 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	NS	mg/kg	<0.000252 U	<0.000256 U	<0.00034 U	<0.000227 U	<0.000251 U	<0.000261 U	<0.000261 U	<0.000204 U	<0.000253 U	<0.000338 U	<0.000273 U	<0.00021 U	<0.000244 U	<0.000227 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	NS	mg/kg	<0.000252 U	<0.000256 U	<0.00034 U	<0.000227 U	<0.000251 U	<0.000261 U	<0.000261 U	<0.000204 U	<0.000253 U	<0.000338 U	<0.000273 U	<0.00021 U	<0.000244 U	<0.000227 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	NS	mg/kg	<0.000252 U	<0.000256 U	<0.00034 U	<0.000227 U	<0.000251 U	<0.000261 U	<0.000261 U	<0.000204 U	<0.000253 U	<0.000338 U	<0.000273 U	<0.00021 U	<0.000244 U	<0.000227 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	NS	mg/kg	<0.000252 U	<0.000256 U	<0.00034 U	<0.000227 U	<0.000251 U	<0.000261 U	<0.000261 U	<0.000204 U	<0.000253 U	<0.000338 U	<0.000273 U	<0.00021 U	<0.000244 U	<0.000227 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.044	0.44	mg/kg	0.000328	<0.000256 U	<0.00034 U	<0.000227 U	0.000403	0.000288	0.000761	0.000315	<0.000253 U	<0.000338 U	0.000535	0.000296	0.000749	0.000411
Perfluorooctanoic Acid (PFOA)	335-67-1	0.00066	0.0011	0.033	0.5	mg/kg	<0.000252 U	<0.000256 U	<0.00034 U	<0.000227 U	0.000557	<0.000261 U	<0.000261 U	<0.000204 U	<0.000253 U	<0.000338 U	<0.000273 U	<0.00021 U	<0.000244 U	<0.000227 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	NS	mg/kg	<0.000252 U	<0.000256 U	<0.00034 U	<0.000227 U	<0.000251 U	<0.000261 U	<0.000261 U	<0.000204 U	<0.000253 U	<0.000338 U	<0.000273 U	<0.00021 U	<0.000244 U	<0.000227 U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	NS	mg/kg	<0.000252 U	<0.000256 U	<0.00034 U	<0.000227 U	<0.000251 U	<0.000261 U	<0.000261 U	<0.000204 U	<0.000253 U	<0.000338 U	<0.000273 U	<0.00021 U	<0.000244 U	<0.000227 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	NS	mg/kg	<0.000252 U	<0.000256 U	<0.00034 U	<0.000227 U	<0.000251 U	<0.000261 U	<0.000261 U	<0.000204 U	<0.000253 U	<0.000338 U	<0.000273 U	<0.00021 U	<0.000244 U	<0.000227 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	NS	mg/kg	<0.000252 U	<0.000256 U	<0.00034 U	<0.000227 U	<0.000251 U	<0.000261 U	<0.000261 U	<0.000204 U	<0.000253 U	<0.000338 U	<0.000273 U	<0.00021 U	<0.000244 U	<0.000227 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FTS	39108-34-4	NS	NS	NS	NS	mg/kg	<0.000252 U	<0.000256 U	<0.00034 U	<0.000227 U	<0.000251 U	<0.000261 U	<0.000261 U	<0.000204 U	<0.000253 U	<0.000338 U	<0.000273 U	<0.00021 U	<0.000244 U	<0.000227 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FTS	27619-97-2	NS	NS	NS	NS	mg/kg	<0.000252 U	<0.000256 U	<0.00034 U	<0.000227 U	<0.000251 U	<0.000261 U	<0.000261 U	<0.000204 U	<0.000253 U	<0.000338 U	<0.000273 U	<0.00021 U	<0.000244 U	<0.000227 U

Notes provided on Page 16.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3D
Remedial Investigation Report
Soil Sample Analytical Results - Block 1823 (H)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	H-SB111	H-SB112	H-SB112	H-SB112	H-SB113	H-SB113	H-SB113	H-SB114	H-SB114	H-SB115	H-SB115	H-SB115	H-SB115SE
						Sample Name	H-SB111_5-7	H-SB112_0-2	H-SB112_7-9	H-SB112_10-12	H-SB113_0-2	H-SB113_6-8	H-SB113_10-12	H-SB114_0-2	H-SB114_7-9	H-SB115_0-2	H-SB115_6-8	H-SB115_10-12	H-SB115SE_6-8
						Sample Date	10/07/2021	10/07/2021	10/07/2021	10/07/2021	10/07/2021	10/07/2021	10/07/2021	10/07/2021	10/07/2021	10/05/2021	10/05/2021	10/05/2021	10/06/2021
						Sample Depth	5-7	0-2	7-9	10-12	0-2	6-8	10-12	0-2	7-9	0-2	6-8	10-12	6-8
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																			
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	NS	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	500	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	NS	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	NS	NS	NS	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	NS	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
1,1-Dichloroethane	75-34-3	0.27	0.27	26	240	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
1,1-Dichloroethene	75-35-4	0.33	0.33	100	500	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	NS	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 UJ	<0.34 U	<0.0043 UJ	<0.37 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	NS	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	NS	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 UJ	<0.34 U	<0.0043 UJ	<0.37 U
1,2,4-Trimethylbenzene	95-63-6	**3.6**	3.6	52	190	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	NS	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	NS	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	500	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
1,2-Dichloroethane	107-06-2	0.02	0.02	3.1	30	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	NS	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	52	190	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 UJ	<0.34 U	<0.0043 UJ	<0.37 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	280	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	130	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.04 U	<3.9 U	<0.064 U	<0.063 U	<0.047 U	<0.056 U	<0.057 U	<0.049 U	<0.057 U	<0.055 U	<6.8 U	<0.085 U	<7.4 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	NS	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
Acetone	67-64-1	**0.05**	0.05	100	500	mg/kg	0.015	<0.39 U	0.012 J	0.033 J	**0.054**	0.018	0.026	0.032	0.014	0.011 J	<0.68 U	0.034	<0.74 U
Acrolein	107-02-8	NS	NS	NS	NS	mg/kg	<0.004 U	<0.39 U	<0.0064 U	<0.0063 U	<0.0047 U	<0.0056 U	<0.0057 U	<0.0049 U	<0.0057 U	<0.0055 U	<0.68 U	<0.0085 U	<0.74 U
Acrylonitrile	107-13-1	NS	NS	NS	NS	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
Benzene	71-43-2	0.06	0.06	4.8	44	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	0.003 J	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
Bromochloromethane	74-97-5	NS	NS	NS	NS	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
Bromodichloromethane	75-27-4	NS	NS	NS	NS	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
Bromoform	75-25-2	NS	NS	NS	NS	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
Bromomethane	74-83-9	NS	NS	NS	NS	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
Carbon Disulfide	75-15-0	NS	NS	NS	NS	mg/kg	<0.002 U	<0.2 U	<0.0032 U	0.0071	0.0036 J	<0.0028 U	0.0036 J	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
Carbon Tetrachloride	56-23-5	0.76	0.76	2.4	22	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
Chlorobenzene	108-90-7	1.1	1.1	100	500	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
Chloroethane	75-00-3	NS	NS	NS	NS	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 UJ	<0.0024 UJ	<0.0028 UJ	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
Chloroform	67-66-3	0.37	0.37	49	350	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
Chloromethane	74-87-3	NS	NS	NS	NS	mg/kg	<0.002 U	<0.2 U	<0.0032 UJ	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	0.44 JD	<0.0043 U	<0.37 U
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	100	500	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	NS	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
Cyclohexane	110-82-7	NS	NS	NS	NS	mg/kg	<0.002 UJ	<0.2 UJ	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	0.022	<0.0028 U	<0.34 U	<0.0043 U	<0.37 UJ
Dibromochloromethane	124-48-1	NS	NS	NS	NS	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
Dibromomethane	74-95-3	NS	NS	NS	NS	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	NS	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
Ethylbenzene	100-41-4	**1**	1	41	390	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 UJ	<0.34 U	<0.0043 UJ	<0.37 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	NS	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 UJ	<0.34 U	<0.0043 UJ	<0.37 U
M,P-Xylene	179601-23-1	NS	NS	NS	NS	mg/kg	<0.004 U	<0.39 U	<0.0064 U	<0.0063 U	<0.0047 U	<0.0056 U	<0.0057 U	<0.0049 U	<0.0057 U	<0.0055 U	<0.68 U	<0.0085 U	<0.74 U
Methyl Acetate	79-20-9	NS	NS	NS	NS	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	0.12	0.12	100	500	mg/kg	0.0041	<0.2 U	<0.0032 U	0.005 J	0.0087	0.0045 J	<0.0028 U	0.0048 J	<0.0028 U	<0.0028 U	<0.34 U	0.0059 J	<0.37 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	NS	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
Methylcyclohexane	108-87-2	NS	NS	NS	NS	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	0.0074	<0.0028 U	<0.0028 U	<0.0024 U	0.017	<0.0028 UJ	<0.34 U	<0.0043 UJ	<0.37 U
Methylene Chloride	75-09-2	0.05	0.05	100	500	mg/kg	0.0041 J	<0.39 U	<0.0064 U	<0.0063 U	<0.0047 U	<0.0056 U	<0.0057 U	<0.0049 U	<0.0057 U	<0.0055 U	<0.68 U	<0.0085 U	<0.74 U
n-Butylbenzene	104-51-8	12	12	100	500	mg/kg	<0.002 U	0.35 JD	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 UJ	<0.34 U	<0.0043 UJ	<0.37 U
n-Propylbenzene	103-65-1	3.9	3.9	100	500	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	NS	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	NS	NS	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
Sec-Butylbenzene	135-98-8	11	11	100	500	mg/kg	<0.002 U	0.24 JD	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 UJ	<0.34 U	<0.0043 UJ	<0.37 U
Styrene	100-42-5	NS	NS	NS	NS	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
T-Butylbenzene	98-06-6	5.9	5.9	100	500	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 UJ	<0.34 UJ	<0.0043 UJ	<0.37 U
Tert-Butyl Alcohol	75-65-0	NS	NS	NS	NS	mg/kg	<0.002 UJ	<0.2 UJ	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 UJ	<0.0043 U	<0.37 UJ
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	100	500	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	0.0067 J	<0.37 U
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	19	150	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 UJ	<0.0024 UJ	<0.0028 UJ	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
Toluene	108-88-3	0.7	0.7	100	500	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
Total Xylenes	1330-20-7	**0.26**	1.6	100	500	mg/kg	<0.006 U	<0.59 U	<0.0096 U	<0.0095 U	<0.0071 U	<0.0084 U	<0.0085 U	<0.0073 U	<0.0085 U	<0.0083 U	<1 U	<0.013 U	<1.1 U
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	100	500	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	NS	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 UJ	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
Trichloroethene (TCE)	79-01-6	0.47	0.47	21	200	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	NS	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 UJ	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U
Vinyl Chloride	75-01-4	**0.02**	0.02	0.9	13	mg/kg	<0.002 U	<0.2 U	<0.0032 U	<0.0032 UJ	<0.0024 U	<0.0028 U	<0.0028 U	<0.0024 U	<0.0028 U	<0.0028 U	<0.34 U	<0.0043 U	<0.37 U

Notes provided on Page 16.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3D
Remedial Investigation Report
Soil Sample Analytical Results - Block 1823 (H)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	H-SB111	H-SB112	H-SB112	H-SB112	H-SB113	H-SB113	H-SB113	H-SB114	H-SB114	H-SB115	H-SB115	H-SB115	H-SB115SE
						Sample Name	H-SB111_5-7	H-SB112_0-2	H-SB112_7-9	H-SB112_10-12	H-SB113_0-2	H-SB113_6-8	H-SB113_10-12	H-SB114_0-2	H-SB114_7-9	H-SB115_0-2	H-SB115_6-8	H-SB115_10-12	H-SB115SE_6-8
						Sample Date	10/07/2021	10/07/2021	10/07/2021	10/07/2021	10/07/2021	10/07/2021	10/07/2021	10/07/2021	10/07/2021	10/05/2021	10/05/2021	10/05/2021	10/06/2021
						Sample Depth	5-7	0-2	7-9	10-12	0-2	6-8	10-12	0-2	7-9	0-2	6-8	10-12	6-8
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																			
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	NS	mg/kg	<0.0953 U	<0.467 U	<0.106 U	<0.105 U	<0.0913 U	<0.0989 U	<0.122 U	<0.0891 U	<0.0991 U	<0.0912 U	<0.129 U	<0.144 U	<0.115 U
1,2-Diphenylhydrazine	122-66-7	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.0196 U	<0.0196 U	<0.0196 U	<0.0196 U	<0.0196 U	<0.0196 U	<0.0196 U	<0.0196 U	<0.0196 U	<0.0192 U	<0.0187 U	<0.0192 U	NA
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	NS	mg/kg	<0.0953 U	<0.467 U	<0.106 U	<0.105 U	<0.0913 U	<0.0989 U	<0.122 U	<0.0891 U	<0.0991 U	<0.0912 U	<0.129 U	<0.144 U	<0.115 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	NS	mg/kg	<0.0953 U	<0.467 U	<0.106 U	<0.105 U	<0.0913 U	<0.0989 U	<0.122 U	<0.0891 U	<0.0991 U	<0.0912 U	<0.129 U	<0.144 U	<0.115 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
2-Chlorophenol	95-57-8	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	NS	mg/kg	<0.0478 U	5.88 D	0.118 D	<0.0527 U	1.3 D	<0.0496 U	<0.0612 U	0.171 D	<0.0497 U	0.118 D	<0.0648 U	<0.0722 U	<0.0578 U
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	500	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
2-Nitroaniline	88-74-4	NS	NS	NS	NS	mg/kg	<0.0953 U	<0.467 U	<0.106 U	<0.105 U	<0.0913 U	<0.0989 U	<0.122 U	<0.0891 U	<0.0991 U	<0.0912 U	<0.129 U	<0.144 U	<0.115 U
2-Nitrophenol	88-75-5	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	0.33	0.33	100	500	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
3-Nitroaniline	99-09-2	NS	NS	NS	NS	mg/kg	<0.0953 U	<0.467 U	<0.106 U	<0.105 U	<0.0913 U	<0.0989 U	<0.122 U	<0.0891 U	<0.0991 U	<0.0912 U	<0.129 U	<0.144 U	<0.115 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	NS	mg/kg	<0.0953 U	<0.467 U	<0.106 U	<0.105 U	<0.0913 U	<0.0989 U	<0.122 U	<0.0891 U	<0.0991 U	<0.0912 U	<0.129 U	<0.144 U	<0.115 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
4-Chloroaniline	106-47-8	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
4-Nitroaniline	100-01-6	NS	NS	NS	NS	mg/kg	<0.0953 U	<0.467 U	<0.106 U	<0.105 U	<0.0913 U	<0.0989 U	<0.122 U	<0.0891 U	<0.0991 U	<0.0912 U	<0.129 U	<0.144 U	<0.115 U
4-Nitrophenol	100-02-7	NS	NS	NS	NS	mg/kg	<0.0953 U	<0.467 U	<0.106 U	<0.105 U	<0.0913 U	<0.0989 U	<0.122 U	<0.0891 U	<0.0991 U	<0.0912 U	<0.129 U	<0.144 U	<0.115 U
Acenaphthene	83-32-9	20	98	100	500	mg/kg	<0.0478 U	3.37 D	0.116 D	<0.0527 U	0.552 D	<0.0496 U	<0.0612 U	0.144 D	<0.0497 U	0.219 D	<0.0648 U	<0.0722 U	<0.0578 U
Acenaphthylene	208-96-8	100	107	100	500	mg/kg	<0.0478 U	0.746 D	<0.0531 U	<0.0527 U	0.0664 JD	<0.0496 U	<0.0612 U	1.51 D	<0.0497 U	0.0488 JD	<0.0648 U	<0.0722 U	<0.0578 U
Acetophenone	98-86-2	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	NS	NS	NS	mg/kg	<0.191 U	<0.934 U	<0.212 U	<0.21 U	<0.183 U	<0.198 U	<0.244 U	<0.178 U	<0.198 U	<0.183 U	<0.259 U	<0.288 U	<0.231 U
Anthracene	120-12-7	100	1000	100	500	mg/kg	<0.0478 U	5.82 D	0.246 D	<0.0527 U	0.216 D	<0.0496 U	<0.0612 U	2.73 D	<0.0497 U	0.455 D	0.247 D	<0.0722 U	<0.0578 U
Atrazine	1912-24-9	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
Benzaldehyde	100-52-7	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	0.0824 JD	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
Benzidine	92-87-5	NS	NS	NS	NS	mg/kg	<0.191 U	<0.934 U	<0.212 U	<0.21 U	<0.183 U	<0.198 U	<0.244 U	<0.178 U	<0.198 U	<0.183 U	<0.259 U	<0.288 U	<0.231 U
Benzo(a)anthracene	56-55-3	**1**	1	1	5.6	mg/kg	<0.0478 U	**4.66 D**	0.55 D	<0.0527 U	0.238 D	0.0625 JD	<0.0612 U	**4.04 D**	0.0531 JD	**1.35 D**	0.548 D	<0.0722 U	<0.0578 U
Benzo(a)pyrene	50-32-8	**1**	22	1	1	mg/kg	<0.0478 U	**2.8 D**	0.519 D	<0.0527 U	0.212 D	0.0569 JD	<0.0612 U	**3.02 D**	0.0895 JD	**1.04 D**	0.429 D	<0.0722 U	<0.0578 U
Benzo(b)fluoranthene	205-99-2	**1**	1.7	1	5.6	mg/kg	<0.0478 U	**1.81 D**	0.418 D	<0.0527 U	0.197 D	<0.0496 U	<0.0612 U	**2.71 D**	0.0776 JD	0.901 D	0.359 D	<0.0722 U	<0.0578 U
Benzo(g,h,i)Perylene	191-24-2	100	1000	100	500	mg/kg	<0.0478 U	1.24 D	0.309 D	<0.0527 U	0.109 D	<0.0496 U	<0.0612 U	1.53 D	0.0673 JD	0.662 D	0.276 D	<0.0722 U	<0.0578 U
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	3.9	56	mg/kg	<0.0478 U	**1.82 D**	0.408 D	<0.0527 U	0.196 D	<0.0496 U	<0.0612 U	**2.95 D**	0.0626 JD	**0.952 D**	0.355 D	<0.0722 U	<0.0578 U
Benzoic Acid	65-85-0	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
Benzyl Alcohol	100-51-6	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	0.0634 JD	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	0.157 D	<0.0496 U	<0.0612 U	0.173 D	<0.0497 U	0.315 D	0.121 JD	<0.0722 U	<0.0578 U
Caprolactam	105-60-2	NS	NS	NS	NS	mg/kg	<0.0953 U	<0.467 U	<0.106 U	<0.105 U	<0.0913 U	<0.0989 U	<0.122 U	<0.0891 U	<0.0991 U	<0.0912 U	<0.129 U	<0.144 U	<0.115 U
Carbazole	86-74-8	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	0.0576 JD	<0.0527 U	0.164 D	<0.0496 U	<0.0612 U	0.531 D	<0.0497 U	0.249 D	0.141 D	<0.0722 U	<0.0578 U
Chrysene	218-01-9	**1**	1	3.9	56	mg/kg	<0.0478 U	**4.79 D**	0.52 D	<0.0527 U	0.24 D	0.0617 JD	<0.0612 U	**4.11 D**	0.0515 JD	**1.33 D**	0.554 D	<0.0722 U	<0.0578 U
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.33	0.56	mg/kg	<0.0478 U	**0.451 JD**	0.0965 JD	<0.0527 U	0.0496 JD	<0.0496 U	<0.0612 U	**0.646 D**	<0.0497 U	0.27 D	0.0837 JD	<0.0722 U	<0.0578 U
Dibenzofuran	132-64-9	7	210	59	350	mg/kg	<0.0478 U	2.47 D	0.0627 JD	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	0.684 D	<0.0497 U	0.139 D	<0.0648 U	<0.0722 U	<0.0578 U
Dibutyl phthalate	84-74-2	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	0.0923 JD	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
Diethyl phthalate	84-66-2	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
Dimethyl phthalate	131-11-3	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
Dioctyl phthalate	117-84-0	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
Diphenylamine	122-39-4	NS	NS	NS	NS	mg/kg	<0.0953 U	<0.467 U	<0.106 U	<0.105 U	<0.0913 U	<0.0989 U	<0.122 U	<0.0891 U	<0.0991 U	<0.0912 U	<0.129 U	<0.144 U	<0.115 U
Fluoranthene	206-44-0	100	1000	100	500	mg/kg	0.0716 JD	12.1 D	0.87 D	<0.0527 U	0.521 D	0.0988 JD	<0.0612 U	7.06 D	<0.0497 U	2.74 D	0.81 D	<0.0722 U	<0.0578 U
Fluorene	86-73-7	30	386	100	500	mg/kg	<0.0478 U	4.94 D	0.145 D	<0.0527 U	0.566 D	<0.0496 U	<0.0612 U	1.05 D	<0.0497 U	0.252 D	<0.0648 U	<0.0722 U	<0.0578 U
Hexachlorobenzene	118-74-1	0.33	3.2	1.2	6	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 UJ	<0.0648 U	<0.0722 UJ	<0.0578 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 UJ
Hexachloroethane	67-72-1	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	0.5	5.6	mg/kg	<0.0478 U	**0.966 D**	0.262 D	<0.0527 U	0.0897 JD	<0.0496 U	<0.0612 U	**1.62 D**	0.061 JD	**0.614 D**	0.236 D	<0.0722 U	<0.0578 U
Isophorone	78-59-1	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
Naphthalene	91-20-3	12	12	100	500	mg/kg	<0.0478 U	0.354 JD	<0.0531 U	<0.0527 U	1.27 D	<0.0496 U	<0.0612 U	0.103 D	<0.0497 U	0.168 D	<0.0648 U	<0.0722 U	<0.0578 U
Nitrobenzene	98-95-3	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
n-Nitrosodimethylamine	62-75-9	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	NS	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	6.7	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
Phenanthrene	85-01-8	100	1000	100	500	mg/kg	<0.0478 U	21.2 D	0.778 D	<0.0527 U	1.41 D	0.0553 JD	<0.0612 U	9.77 D	<0.0497 U	1.87 D	0.535 D	<0.0722 U	0.12 D
Phenol	108-95-2	0.33	0.33	100	500	mg/kg	<0.0478 U	<0.234 U	<0.0531 U	<0.0527 U	<0.0457 U	<0.0496 U	<0.0612 U	<0.0447 U	<0.0497 U	<0.0457 U	<0.0648 U	<0.0722 U	<0.0578 U
Pyrene	129-00-0	100	1000	100	500	mg/kg	0.0518 JD	13.4 D	1.02 D	<0.0527 U	0.472 D	0.115 D	<0.0612 U	8.9 D	<0.0497 U	2.65 D	1.13 D	<0.0722 U	<0.0578 U
Pyridine	110-86-1	NS	NS	NS	NS	mg/kg	<0.191 U	<0.934 U	<0.212 U	<0.21 U	<0.183 U	<0.198 U	<0.244 U	<0.178 U	<0.198 U	<0.183 U	<0.259 U	<0.288 U	<0.231 U

Notes provided on Page 16.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3D
Remedial Investigation Report
Soil Sample Analytical Results - Block 1823 (H)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	H-SB111	H-SB112	H-SB112	H-SB112	H-SB113	H-SB113	H-SB113	H-SB114	H-SB114	H-SB115	H-SB115	H-SB115	H-SB115SE
						Sample Name	H-SB111_5-7	H-SB112_0-2	H-SB112_7-9	H-SB112_10-12	H-SB113_0-2	H-SB113_6-8	H-SB113_10-12	H-SB114_0-2	H-SB114_7-9	H-SB115_0-2	H-SB115_6-8	H-SB115_10-12	H-SB115SE_6-8
						Sample Date	10/07/2021	10/07/2021	10/07/2021	10/07/2021	10/07/2021	10/07/2021	10/07/2021	10/07/2021	10/07/2021	10/05/2021	10/05/2021	10/05/2021	10/06/2021
						Sample Depth	5-7	0-2	7-9	10-12	0-2	6-8	10-12	0-2	7-9	0-2	6-8	10-12	6-8
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Petroleum Hydrocarbons																			
Total Petroleum Hydrocarbons	TPH	NS	NS	NS	NS	UNKNOWN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides																			
4,4'-DDD	72-54-8	**0.0033**	14	13	92	mg/kg	<0.00189 U	<0.00182 U	<0.00206 U	<0.00207 U	**0.0202 D**	<0.00195 U	<0.00238 U	<0.00177 U	<0.00193 U	<0.0018 U	<0.00252 UJ	<0.00286 UJ	NA
4,4'-DDE	72-55-9	**0.0033**	17	8.9	62	mg/kg	<0.00189 U	<0.00182 U	<0.00206 U	<0.00207 U	**0.00858 D**	<0.00195 U	<0.00238 U	<0.00177 U	<0.00193 U	<0.0018 U	<0.00252 UJ	<0.00286 UJ	NA
4,4'-DDT	50-29-3	**0.0033**	136	7.9	47	mg/kg	<0.00189 U	<0.00182 U	<0.00206 U	<0.00207 U	<0.00181 U	<0.00195 U	<0.00238 U	<0.00177 U	<0.00193 U	<0.0018 U	<0.00252 UJ	<0.00286 UJ	NA
Aldrin	309-00-2	0.005	0.19	0.097	0.68	mg/kg	<0.00189 U	<0.00182 U	<0.00206 U	<0.00207 U	<0.00181 U	<0.00195 U	<0.00238 U	<0.00177 U	<0.00193 U	<0.0018 U	<0.00252 UJ	<0.00286 UJ	NA
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	0.48	3.4	mg/kg	<0.00189 U	<0.00182 U	<0.00206 U	<0.00207 U	<0.00181 U	<0.00195 U	<0.00238 U	<0.00177 U	<0.00193 U	<0.0018 U	<0.00252 UJ	<0.00286 UJ	NA
Alpha Chlordane	5103-71-9	0.094	2.9	4.2	24	mg/kg	<0.00189 U	<0.00182 U	<0.00206 U	<0.00207 U	<0.00181 U	<0.00195 U	<0.00238 U	<0.00177 U	<0.00193 U	<0.0018 U	<0.00252 UJ	<0.00286 UJ	NA
Alpha Endosulfan	959-98-8	2.4	102	24	200	mg/kg	<0.00189 U	<0.00182 U	<0.00206 U	<0.00207 U	<0.00181 U	<0.00195 U	<0.00238 U	<0.00177 U	<0.00193 U	<0.0018 U	<0.00252 UJ	<0.00286 UJ	NA
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	0.36	3	mg/kg	<0.00189 U	<0.00182 U	<0.00206 U	<0.00207 U	<0.00181 U	<0.00195 U	<0.00238 U	<0.00177 U	<0.00193 U	<0.0018 U	<0.00252 UJ	<0.00286 UJ	NA
Beta Endosulfan	33213-65-9	2.4	102	24	200	mg/kg	<0.00189 U	<0.00182 U	<0.00206 U	<0.00207 U	<0.00181 U	<0.00195 U	<0.00238 U	<0.00177 U	<0.00193 U	<0.0018 U	<0.00252 UJ	<0.00286 UJ	NA
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	NS	mg/kg	<0.0378 U	<0.0363 U	<0.0412 U	<0.0414 U	<0.0361 U	<0.039 U	<0.0477 U	<0.0354 U	<0.0386 U	<0.0361 U	<0.0503 UJ	<0.0572 UJ	NA
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	100	500	mg/kg	<0.00189 U	<0.00182 U	<0.00206 U	<0.00207 U	<0.00181 U	<0.00195 U	<0.00238 U	<0.00177 U	<0.00193 U	<0.0018 U	<0.00252 UJ	<0.00286 UJ	NA
Dieldrin	60-57-1	**0.005**	0.1	0.2	1.4	mg/kg	<0.00189 U	<0.00182 U	<0.00206 U	<0.00207 U	<0.00181 U	<0.00195 U	<0.00238 U	<0.00177 U	<0.00193 U	<0.0018 U	<0.00252 UJ	<0.00286 UJ	NA
Endosulfan Sulfate	1031-07-8	2.4	1000	24	200	mg/kg	<0.00189 U	<0.00182 U	<0.00206 U	<0.00207 U	<0.00181 U	<0.00195 U	<0.00238 U	<0.00177 U	<0.00193 U	<0.0018 U	<0.00252 UJ	<0.00286 UJ	NA
Endrin	72-20-8	0.014	0.06	11	89	mg/kg	<0.00189 U	<0.00182 U	<0.00206 U	<0.00207 U	<0.00181 U	<0.00195 U	<0.00238 U	<0.00177 U	<0.00193 U	<0.0018 U	<0.00252 UJ	<0.00286 UJ	NA
Endrin Aldehyde	7421-93-4	NS	NS	NS	NS	mg/kg	<0.00189 U	<0.00182 U	<0.00206 U	<0.00207 U	<0.00181 U	<0.00195 U	<0.00238 U	<0.00177 U	<0.00193 U	<0.0018 U	<0.00252 UJ	<0.00286 UJ	NA
Endrin Ketone	53494-70-5	NS	NS	NS	NS	mg/kg	<0.00189 U	<0.00182 U	<0.00206 U	<0.00207 U	<0.00181 U	<0.00195 U	<0.00238 U	<0.00177 U	<0.00193 U	<0.0018 U	<0.00252 UJ	<0.00286 UJ	NA
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	1.3	9.2	mg/kg	<0.00189 U	<0.00182 U	<0.00206 U	<0.00207 U	<0.00181 U	<0.00195 U	<0.00238 U	<0.00177 U	<0.00193 U	<0.0018 U	<0.00252 UJ	<0.00286 UJ	NA
Gamma-Chlordane	5566-34-7	NS	NS	NS	NS	mg/kg	<0.00189 U	<0.00182 U	<0.00206 U	<0.00207 U	<0.00181 U	<0.00195 U	<0.00238 U	<0.00177 U	<0.00193 U	<0.0018 U	<0.00252 UJ	<0.00286 UJ	NA
Heptachlor	76-44-8	0.042	0.38	2.1	15	mg/kg	<0.00189 U	<0.00182 U	<0.00206 U	<0.00207 U	<0.00181 U	<0.00195 U	<0.00238 U	<0.00177 U	<0.00193 U	<0.0018 U	<0.00252 UJ	<0.00286 UJ	NA
Heptachlor Epoxide	1024-57-3	NS	NS	NS	NS	mg/kg	<0.00189 U	<0.00182 U	<0.00206 U	<0.00207 U	<0.00181 U	<0.00195 U	<0.00238 U	<0.00177 U	<0.00193 U	<0.0018 U	<0.00252 UJ	<0.00286 UJ	NA
Methoxychlor	72-43-5	NS	NS	NS	NS	mg/kg	<0.00189 U	<0.00182 U	<0.00206 U	<0.00207 U	<0.00181 U	<0.00195 U	<0.00238 U	<0.00177 U	<0.00193 U	<0.0018 U	<0.00252 UJ	<0.00286 UJ	NA
Toxaphene	8001-35-2	NS	NS	NS	NS	mg/kg	<0.189 U	<0.182 U	<0.206 U	<0.207 U	<0.181 U	<0.195 U	<0.238 U	<0.177 U	<0.193 U	<0.18 U	<0.252 UJ	<0.286 UJ	NA
Herbicides																			
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	NS	mg/kg	<0.0229 U	<0.0224 U	<0.0254 U	<0.025 U	<0.0219 U	<0.0237 U	<0.0292 U	<0.0214 U	<0.0238 U	<0.0219 U	<0.031 U	<0.0351 U	NA
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	NS	mg/kg	<0.0229 U	<0.0224 U	<0.0254 U	<0.025 U	<0.0219 U	<0.0237 U	<0.0292 U	<0.0214 U	<0.0238 U	<0.0219 U	<0.031 U	<0.0351 U	NA
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	100	500	mg/kg	<0.0229 U	<0.0224 U	<0.0254 U	<0.025 U	<0.0219 U	<0.0237 U	<0.0292 U	<0.0214 U	<0.0238 U	<0.0219 U	<0.031 U	<0.0351 U	NA
Polychlorinated Biphenyl																			
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	NS	mg/kg	<0.0191 U	<0.0183 U	<0.0208 U	<0.0209 U	<0.0182 U	<0.0197 U	<0.0241 U	<0.0179 U	<0.0195 U	<0.0182 U	<0.0254 UJ	<0.0289 UJ	NA
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	NS	mg/kg	<0.0191 U	<0.0183 U	<0.0208 U	<0.0209 U	<0.0182 U	<0.0197 U	<0.0241 U	<0.0179 U	<0.0195 U	<0.0182 U	<0.0254 UJ	<0.0289 UJ	NA
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	NS	mg/kg	<0.0191 U	<0.0183 U	<0.0208 U	<0.0209 U	<0.0182 U	<0.0197 U	<0.0241 U	<0.0179 U	<0.0195 U	<0.0182 U	<0.0254 UJ	<0.0289 UJ	NA
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	NS	mg/kg	<0.0191 U	<0.0183 U	<0.0208 U	<0.0209 U	<0.0182 U	<0.0197 U	<0.0241 U	<0.0179 U	<0.0195 U	<0.0182 U	<0.0254 UJ	<0.0289 UJ	NA
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	NS	mg/kg	<0.0191 U	<0.0183 U	<0.0208 U	<0.0209 U	<0.0182 U	<0.0197 U	<0.0241 U	0.372	<0.0195 U	<0.0182 U	<0.0254 UJ	<0.0289 UJ	NA
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	NS	mg/kg	<0.0191 U	<0.0183 U	<0.0208 U	<0.0209 U	<0.0182 U	<0.0197 U	<0.0241 U	<0.0179 U	<0.0195 U	<0.0182 U	<0.0254 UJ	<0.0289 UJ	NA
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	NS	mg/kg	<0.0191 U	<0.0183 U	<0.0208 U	<0.0209 U	0.0463	<0.0197 U	<0.0241 U	0.113	<0.0195 U	<0.0182 U	<0.0254 UJ	<0.0289 UJ	NA
Total PCBs	1336-36-3	**0.1**	3.2	1	1	mg/kg	<0.0191 U	<0.0183 U	<0.0208 U	<0.0209 U	0.0463	<0.0197 U	<0.0241 U	**0.485**	<0.0195 U	0.0334	<0.0254 UJ	<0.0289 UJ	NA
Metals																			
Aluminum	7429-90-5	NS	NS	NS	NS	mg/kg	4,960	7,500	7,330	5,810	8,140	12,500	17,400	5,600	3,370	9,280	10,800	20,400	NA
Antimony	7440-36-0	NS	NS	NS	NS	mg/kg	<2.89 U	3.36	<3.2 U	<3.17 U	2.8	4.46	5.71	<2.7 U	<2.99 U	4.18	<3.9 U	4.91	NA
Arsenic	7440-38-2	**13**	16	16	16	mg/kg	10.3	**14.9**	7.84	2.54	**13.2**	8.23	3.75	4.68	3.31	4.38	**15.4**	5.63	NA
Barium	7440-39-3	**350**	820	400	400	mg/kg	84.4	312	199	22.7	**507**	67.8	51.5	109	122	**474**	**480**	65.7	NA
Beryllium	7440-41-7	7.2	47	72	590	mg/kg	0.122	<0.056 U	<0.064 U	<0.063 U	<0.055 U	<0.06 U	<0.074 U	<0.054 U	<0.06 U	<0.056 U	0.183	<0.089 U	NA
Cadmium	7440-43-9	**2.5**	7.5	4.3	9.3	mg/kg	<0.566 U	2.23	0.716	<0.381 U	1.03	0.399	<0.442 U	0.624	<0.359 U	0.895	**3.01**	<0.532 U	NA
Calcium	7440-70-2	NS	NS	NS	NS	mg/kg	12,000	9,380	28,700	33,700	28,600	4,750	4,250	52,100	5,260	19,300 B	7,190 B	5,530 B	NA
Chromium, Hexavalent	18540-29-9	1	19	110	400	mg/kg	<0.577 U	<0.683 U	<0.639 U	<0.634 U	<0.551 U	<0.601 U	<0.736 U	<0.54 U	<0.598 U	<0.552 U	<0.78 U	<0.887 U	NA
Chromium, Total	7440-47-3	NS	NS	NS	NS	mg/kg	12.3	22.3	41.1	11	17.9	25.5	33.6	16.2	10.6	20	33.6	38	NA
Chromium, Trivalent	16065-83-1	**30**	NS	180	1500	mg/kg	12.3	22.3	**41.1**	11	17.9	25.5	**33.6**	16.2	10.6	20	**33.6**	**38**	NA
Cobalt	7440-48-4	NS	NS	NS	NS	mg/kg	6.02	6.97	6.69	4.23	7.33	9.23	12.2	6.52	4.98	8.33	10.5	13.7	NA
Copper	7440-50-8	**50**	1720	270	270	mg/kg	16	**76.2**	**70.9**	4.78	**79.7**	22.4	15.5	33.8	48.4	48.7	**258**	16.5	NA
Cyanide	57-12-5	27	40	27	27	mg/kg	<0.577 U	<0.563 U	<0.639 U	<0.634 U	<0.551 U	<0.601 U	<0.736 U	<0.54 U	<0.598 U	<0.552 U	<0.78 U	<0.887 U	NA
Iron	7439-89-6	NS	NS	NS	NS	mg/kg	12,700	18,700	21,500	12,200	19,400	26,100	34,700	11,800	9,090	16,500	69,500	34,400	NA
Lead	7439-92-1	**63**	450	400	1000	mg/kg	**69.3**	**337**	**232**	2.38	**511**	57.3	11.8	**120**	**99.1**	**360**	**1,750**	14.5	NA
Magnesium	7439-95-4	NS	NS	NS	NS	mg/kg	1,450	3,610	3,950	4,260	8,330	5,940	8,750	6,240	2,700	6,130	991	9,080	NA
Manganese	7439-96-5	1600	2000	2000	10000	mg/kg	219	267	196	274	280	629	813	178	112	251	182	947	NA
Mercury	7439-97-6	**0.18**	0.73	0.81	2.8	mg/kg	**0.192**	**0.317**	**0.678**	0.0809	0.111	**0.856**	0.0845	**0.358**	<0.0359 U	0.164	**6.26**	0.0869	NA
Nickel	7440-02-0	**30**	130	310	310	mg/kg	10.8	17.5	11.8	4.95	11.8	14.2	18.7	13	8.31	**31.8 J**	**36.1 J**	30 J	NA
Potassium	7440-09-7	NS	NS	NS	NS	mg/kg	984	959	1,170	1,560	1,070	3,060	4,420	975	830	1,340	1,120	5,210	NA
Selenium	7782-49-2	**3.9**	4	180	1500	mg/kg	<2.89 U	<2.82 U	<3.2 U	<3.17 U	<2.75 U	<3 U	<3.68 U	<2.7 U	<2.99 U	<2.76 U	<3.9 U	<4.43 U	NA
Silver	7440-22-4	**2**	8.3	180	1500	mg/kg	<0.577 U	1.57	<0.639 U	<0.634 U	<0.551 U	<0.601 U	<0.736 U	<0.54 U	<0.598 U	<0.552 U	<0.78 U	<0.887 U	NA
Sodium	7440-23-5	NS	NS	NS	NS	mg/kg	157	131	447	722	364	1,700	3,550	197	307	215	427	3,920	NA
Thallium	7440-28-0	NS	NS	NS	NS	mg/kg	<2.89 U	<2.82 U	<3.2 U	<3.17 U	<2.75 U	<3 U	<3.68 U	<2.7 U	<2.99 U	<2.76 U	<3.9 U	<4.43 U	NA
Vanadium	7440-62-2	NS	NS	NS	NS	mg/kg	14.5	50.2	26.6	14.7	38.3	31.6	41	21.8	10.5	30.6	34	47.5	NA
Zinc	7440-66-6	**109**	2480	10000	10000	mg/kg	**112**	**366**	**304**	20.6	**427**	84.6	69.7	**136**	**121**	**306**	**2,320**	81.1	NA
General Chemistry																			
Solids, Percent	SOLID	NS	NS	NS	NS	Percent	86.7	88.8	78.2	78.8	90.8	83.2	67.9	92.7	83.6	90.6	64.1	56.4	71.1
Perfluorooctanoic acids																			
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	NS	NS	NS	mg/kg	<0.000273 U	<0.000258 U	<0.00031 U	<0.000253 U	<0.000265 U	<0.000287 U	<0.000349 U	<0.000243 U	<0.000281 U	<0.00023 U	<0.000312 U	<0.000443 U	NA
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOSA	2355-31-9	NS	NS	NS	NS	mg/kg	<0.000273 U	<0.000258 U	<0.00031 U	<0.000253 U	<0.000265 U	<0.000287 U	<0.000349 U	<0.000243 U	<0.000281 U	<0.00023 U	<0.000312 U	<0.000443 U	NA
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	NS	mg/kg	<0.000273 U	<0.000258 U	<0.00031 U	<0.000253 U	<0.000265 U	<0.000287 U	<0.000349 U	<0.000243 U	<0.000281 U	<0.00023 U	<0.000312 U	<0.000443 U	NA
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	NS	mg/kg	0.000371	0.000527	0.00321	<0.000253 U	0.00062	0.00063	<0.000349 U	0.00155	0.000355	<0.00023 U	0.000909	<0.000443 U	NA
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	NS	mg/kg	<0.000273 U	<0.000258 U	<0.00031 U	<0.000253 U	<0.000265 U	<0.000287 U	<0.000349 U	<0.000243 U	<0.000281 U	<0.00023 U	<0.000312 U	<0.000443 U	NA
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	NS	mg/kg	<0.000273 U	<0.000258 U	<0.00031 U	<0.000253 U	<0.000265 U	<0.000287 U	<0.000349 U	<0.000243 U	<0.000281 U	<0.00023 U	<0.000312 U	<0.000443 U	NA
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	NS	mg/kg	<0.000273 U	<0.000258 U	<0.00031 U	<0.000253 U	<0.000265 U	<0.000287 U	<0.000349 U	<0.000243 U	<0.000281 U	<0.00023 U	<0.000312 U	<0.000443 U	NA
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	NS	mg/kg	<0.000273 U	<0.000258 U	<0.00031 U	<0.000253 U	<0.000265 U	<0.000287 U	<0.000349 U	<0.000243 U	<0.000281 U	<0.00023 U	<0.000312 U	<0.000443 U	NA
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	NS	mg/kg	<0.000273 U	<0.000258 U	<0.00031 U	<0.000253 U	<0.000265 U	<0.000287 U	<0.000349 U	<0.000243 U	<0.000281 U	<0.00023 U	<0.000312 U	<0.000443 U	NA
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	NS	mg/kg	<0.000273 U	<0.000258 U	<0.00031 U	<0.000253 U	<0.000265 U	<0.000287 U	<0.000349 U	<0.000243 U	<0.000281 U	<0.00023 U	<0.000312 U	<0.000443 U	NA
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	NS	mg/kg	<0.000273 U	<0.000258 U	<0.00031 U	<0.000253 U	<0.000265 U	<0.000287 U	<0.000349 U	0.000294	<0.000281 U	<0.00023 U	<0.000312 U	<0.000443 U	NA
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	NS	mg/kg	<0.000273 U	<0.000258 U	<0.00031 U	<0.000253 U	<0.000265 U	<0.000287 U	<0.000349 U	<0.000243 U	<0.000281 U	<0.00023 U	<0.000312 U	<0.000443 U	NA
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	NS	mg/kg	<0.000273 U	<0.000258 U	<0.00031 U	<0.000253 U	<0.000265 U	<0.000287 U	<0.000349 U	<0.000243 U	<0.000281 U	<0.00023 U	<0.000312 U	<0.000443 U	NA
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.044	0.44	mg/kg	<0.000273 U	0.000431	<0.00031 U	<0.000253 U	<0.000265 U	<0.000287 U	<0.000349 U	<0.000243 U	0.000424	<0.00023 U	**0.00542**	<0.000443 U	NA
Perfluorooctanoic Acid (PFOA)	335-67-1	0.00066	0.0011	0.033	0.5	mg/kg	<0.000273 U	<0.000258 U	<0.00031 U	<0.000253 U	<0.000265 U	<0.000287 U	<0.000349 U	<0.000243 U	<0.000281 U	<0.00023 U	<0.000312 U	<0.000443 U	NA
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	NS	mg/kg	<0.000273 U	<0.000258 U	<0.00031 U	<0.000253 U	<0.000265 U	0.00111	<0.000349 U	<0.000243 U	<0.000281 U	<0.00023 U	<0.000312 U	<0.000443 U	NA
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	NS	mg/kg	<0.000273 U	<0.000258 U	<0.00031 U	<0.000253 U	<0.000265 U	<0.000287 U	<0.000349 U	<0.000243 U	<0.000281 U	<0.00023 U	<0.000312 U	<0.000443 U	NA
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	NS	mg/kg	<0.000273 U	<0.000258 U	<0.00031 U	<0.000253 U	<0.000265 U	<0.000287 U	<0.000349 U	<0.000243 U	<0.000281 U	<0.00023 U	<0.000312 U	<0.000443 U	NA
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	NS	mg/kg	<0.000273 U	<0.000258 U	<0.00031 U	<0.000253 U	<0.000265 U	<0.000287 U	<0.000349 U	<0.000243 U	<0.000281 U	<0.00023 U	<0.000312 U	<0.000443 U	NA
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FTS	39108-34-4	NS	NS	NS	NS	mg/kg	<0.000273 U	<0.000258 U	<0.00031 U	<0.000253 U	<0.000265 U	<0.000287 U	<0.000349 U	<0.000243 U	<0.000281 U	<0.00023 U	<0.000312 U	<0.000443 U	NA
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FTS	27619-97-2	NS	NS	NS	NS	mg/kg	<0.000273 U	<0.000258 U	<0.00031 U	<0.000253 U	<0.000265 U	<0.000287 U	<0.000349 U	<0.000243 U	<0.000281 U	<0.00023 U	<0.000312 U	<0.000443 U	NA

Notes provided on Page 16.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3D
Remedial Investigation Report
Soil Sample Analytical Results - Block 1823 (H)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	H-SB115SE2	H-SB115SE3	H-SB115SE4	H-SB115SW	H-SB115SW	H-SB116	H-SB116	H-SB117	H-SB117	H-SB117	H-SB117
						Sample Name	H-SB115SE2_6-8	H-SB115SE3_7-9	H-SB115SE4_6-8	H-SB115SW_6-8	DUP14_100621	H-SB116_0-2	H-SB116_5-7	H-SB117_0-2	DUP13_100521	H-SB117_11-12	H-SB117_13-15
						Sample Date	10/06/2021	10/06/2021	10/06/2021	10/06/2021	10/06/2021	10/05/2021	10/05/2021	10/05/2021	10/05/2021	10/05/2021	10/05/2021
						Sample Depth	6-8	7-9	6-8	6-8	6-8	0-2	5-7	0-2	0-2	11-12	13-15
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																	
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	NS	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	500	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	NS	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	NS	NS	NS	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	NS	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
1,1-Dichloroethane	75-34-3	0.27	0.27	26	240	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
1,1-Dichloroethene	75-35-4	0.33	0.33	100	500	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	NS	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 UJ	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	NS	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	NS	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 UJ	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
1,2,4-Trimethylbenzene	95-63-6	**3.6**	3.6	52	190	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	NS	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	NS	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	500	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
1,2-Dichloroethane	107-06-2	0.02	0.02	3.1	30	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	NS	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	52	190	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 UJ	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	280	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	130	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<6.1 U	<5.1 U	<0.079 U	<0.072 U	<0.058 U	<0.065 U	<0.063 U	<0.057 U	<0.052 U	<0.045 U	<0.063 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	NS	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
Acetone	67-64-1	**0.05**	0.05	100	500	mg/kg	<0.61 U	<0.51 U	**0.12**	**0.11 J**	**0.057 J**	**0.057**	0.028	**0.059 J**	**0.19 J**	0.038	0.045
Acrolein	107-02-8	NS	NS	NS	NS	mg/kg	<0.61 UJ	<0.51 UJ	<0.0079 U	<0.0072 U	<0.0058 U	<0.0065 U	<0.0063 UJ	<0.0057 U	<0.0052 UJ	<0.0045 U	<0.0063 U
Acrylonitrile	107-13-1	NS	NS	NS	NS	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
Benzene	71-43-2	0.06	0.06	4.8	44	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
Bromochloromethane	74-97-5	NS	NS	NS	NS	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
Bromodichloromethane	75-27-4	NS	NS	NS	NS	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
Bromoform	75-25-2	NS	NS	NS	NS	mg/kg	<0.31 UJ	<0.26 UJ	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 UJ	<0.0028 U	<0.0026 UJ	<0.0022 U	<0.0032 U
Bromomethane	74-83-9	NS	NS	NS	NS	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
Carbon Disulfide	75-15-0	NS	NS	NS	NS	mg/kg	<0.31 U	<0.26 U	0.0043 J	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	0.019
Carbon Tetrachloride	56-23-5	0.76	0.76	2.4	22	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
Chlorobenzene	108-90-7	1.1	1.1	100	500	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
Chloroethane	75-00-3	NS	NS	NS	NS	mg/kg	<0.31 U	<0.26 U	<0.0039 UJ	<0.0036 UJ	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 UJ	<0.0026 U	<0.0022 U	<0.0032 U
Chloroform	67-66-3	0.37	0.37	49	350	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
Chloromethane	74-87-3	NS	NS	NS	NS	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	100	500	mg/kg	<0.31 U	<0.26 U	0.044	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	NS	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
Cyclohexane	110-82-7	NS	NS	NS	NS	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 UJ	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
Dibromochloromethane	124-48-1	NS	NS	NS	NS	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
Dibromomethane	74-95-3	NS	NS	NS	NS	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	NS	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
Ethylbenzene	100-41-4	**1**	1	41	390	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 UJ	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	NS	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 UJ	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
M,P-Xylene	179601-23-1	NS	NS	NS	NS	mg/kg	<0.61 U	<0.51 U	<0.0079 U	<0.0072 U	<0.0058 U	<0.0065 U	<0.0063 U	<0.0057 U	<0.0052 U	<0.0045 U	<0.0063 U
Methyl Acetate	79-20-9	NS	NS	NS	NS	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	0.0095	<0.0022 U	<0.0032 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	0.12	0.12	100	500	mg/kg	<0.31 U	<0.26 U	0.024	0.024 J	0.013 J	0.011	0.006 J	0.011 J	0.053 J	0.011	0.012
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	NS	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	0.0039 J	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
Methylcyclohexane	108-87-2	NS	NS	NS	NS	mg/kg	<0.31 U	0.28 JD	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 UJ	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
Methylene Chloride	75-09-2	0.05	0.05	100	500	mg/kg	<0.61 U	<0.51 U	0.0091 J	0.0094 J	<0.0058 U	<0.0065 U	<0.013 U	<0.0057 U	<0.01 U	<0.009 U	<0.013 U
n-Butylbenzene	104-51-8	12	12	100	500	mg/kg	<0.31 U	0.4 J	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 UJ	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
n-Propylbenzene	103-65-1	3.9	3.9	100	500	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	NS	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	NS	NS	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
Sec-Butylbenzene	135-98-8	11	11	100	500	mg/kg	<0.31 U	0.6 D	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 UJ	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
Styrene	100-42-5	NS	NS	NS	NS	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
T-Butylbenzene	98-06-6	5.9	5.9	100	500	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 UJ	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 UJ	<0.0032 UJ
Tert-Butyl Alcohol	75-65-0	NS	NS	NS	NS	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 UJ	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 UJ	<0.0032 UJ
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	100	500	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	19	150	mg/kg	<0.31 U	<0.26 U	0.0072 J	<0.0036 UJ	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 UJ	<0.0026 U	<0.0022 U	<0.0032 U
Toluene	108-88-3	0.7	0.7	100	500	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
Total Xylenes	1330-20-7	**0.26**	1.6	100	500	mg/kg	<0.92 U	<0.77 U	<0.012 U	<0.011 U	<0.0087 U	<0.0097 U	<0.0095 U	<0.0085 U	<0.0078 U	<0.0067 U	<0.0095 U
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	100	500	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	NS	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
Trichloroethene (TCE)	79-01-6	0.47	0.47	21	200	mg/kg	<0.31 U	<0.26 U	0.0078 J	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	NS	mg/kg	<0.31 U	<0.26 U	<0.0039 U	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U
Vinyl Chloride	75-01-4	**0.02**	0.02	0.9	13	mg/kg	<0.31 U	<0.26 U	**0.024**	<0.0036 U	<0.0029 U	<0.0032 U	<0.0032 U	<0.0028 U	<0.0026 U	<0.0022 U	<0.0032 U

Notes provided on Page 16.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3D
Remedial Investigation Report
Soil Sample Analytical Results - Block 1823 (H)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	H-SB115SE2	H-SB115SE3	H-SB115SE4	H-SB115SW	H-SB115SW	H-SB116	H-SB116	H-SB117	H-SB117	H-SB117	H-SB117
						Sample Name	H-SB115SE2_6-8	H-SB115SE3_7-9	H-SB115SE4_6-8	H-SB115SW_6-8	DUP14_100621	H-SB116_0-2	H-SB116_5-7	H-SB117_0-2	DUP13_100521	H-SB117_11-12	H-SB117_13-15
						Sample Date	10/06/2021	10/06/2021	10/06/2021	10/06/2021	10/06/2021	10/05/2021	10/05/2021	10/05/2021	10/05/2021	10/05/2021	10/05/2021
						Sample Depth	6-8	7-9	6-8	6-8	6-8	0-2	5-7	0-2	0-2	11-12	13-15
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																	
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	NS	mg/kg	<0.119 U	<0.115 U	<0.131 U	<0.118 U	<0.118 U	<0.107 U	<0.603 U	<0.0937 U	<0.104 U	<0.0989 U	<0.118 U
1,2-Diphenylhydrazine	122-66-7	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 U	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	NA	NA	NA	NA	NA	<0.019 U	<0.0187 U	<0.0196 U	<0.0196 U	<0.0194 U	<0.0192 U
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	NS	mg/kg	<0.119 U	<0.115 U	<0.131 U	<0.118 U	<0.118 U	<0.107 UJ	<0.603 U	<0.0937 U	<0.104 U	<0.0989 U	<0.118 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 UJ	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 UJ	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 UJ	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 UJ	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	NS	mg/kg	<0.119 U	<0.115 U	<0.131 U	<0.118 U	<0.118 U	<0.107 UJ	<0.603 U	<0.0937 U	<0.104 U	<0.0989 U	<0.118 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 U	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 U	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 U	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
2-Chlorophenol	95-57-8	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 UJ	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	0.632 D	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	500	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 UJ	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
2-Nitroaniline	88-74-4	NS	NS	NS	NS	mg/kg	<0.119 U	<0.115 U	<0.131 U	<0.118 U	<0.118 U	<0.107 U	<0.603 U	<0.0937 U	<0.104 U	<0.0989 U	<0.118 U
2-Nitrophenol	88-75-5	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 UJ	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	0.33	0.33	100	500	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 UJ	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 U	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
3-Nitroaniline	99-09-2	NS	NS	NS	NS	mg/kg	<0.119 U	<0.115 U	<0.131 U	<0.118 U	<0.118 U	<0.107 U	<0.603 U	<0.0937 U	<0.104 U	<0.0989 U	<0.118 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	NS	mg/kg	<0.119 U	<0.115 U	<0.131 U	<0.118 U	<0.118 U	<0.107 UJ	<0.603 U	<0.0937 U	<0.104 U	<0.0989 U	<0.118 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 U	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 UJ	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
4-Chloroaniline	106-47-8	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 U	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 U	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
4-Nitroaniline	100-01-6	NS	NS	NS	NS	mg/kg	<0.119 U	<0.115 U	<0.131 U	<0.118 U	<0.118 U	<0.107 U	<0.603 U	<0.0937 U	<0.104 U	<0.0989 U	<0.118 U
4-Nitrophenol	100-02-7	NS	NS	NS	NS	mg/kg	<0.119 U	<0.115 U	<0.131 U	<0.118 U	<0.118 U	<0.107 UJ	<0.603 U	<0.0937 U	<0.104 U	<0.0989 U	<0.118 U
Acenaphthene	83-32-9	20	98	100	500	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	0.677 D	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
Acenaphthylene	208-96-8	100	107	100	500	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	0.147 D	<0.302 U	<0.047 U	<0.0519 U	0.172 D	<0.0594 U
Acetophenone	98-86-2	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 U	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	NS	NS	NS	mg/kg	<0.237 U	<0.23 U	<0.263 U	<0.236 U	<0.237 U	<0.214 U	<1.21 U	<0.188 U	<0.207 U	<0.198 U	<0.237 U
Anthracene	120-12-7	100	1000	100	500	mg/kg	<0.0594 U	0.0845 JD	<0.0658 U	<0.0592 U	<0.0593 U	2.79 D	<0.302 U	<0.047 U	0.0737 JD	0.138 D	<0.0594 U
Atrazine	1912-24-9	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 U	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
Benzaldehyde	100-52-7	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 U	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
Benzidine	92-87-5	NS	NS	NS	NS	mg/kg	<0.237 U	<0.23 U	<0.263 U	<0.236 U	<0.237 U	<0.214 U	<1.21 U	<0.188 U	<0.207 U	<0.198 U	<0.237 U
Benzo(a)anthracene	56-55-3	**1**	1	1	5.6	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	0.0813 JD	**3.26 D**	<0.302 U	0.18 D	0.233 D	0.444 D	<0.0594 U
Benzo(a)pyrene	50-32-8	**1**	22	1	1	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	0.157 D	**1.53 D**	<0.302 U	0.158 D	0.182 D	0.449 D	<0.0594 U
Benzo(b)fluoranthene	205-99-2	**1**	1.7	1	5.6	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	0.136 D	**2.11 D**	<0.302 U	0.136 D	0.165 D	0.389 D	<0.0594 U
Benzo(g,h,i)Perylene	191-24-2	100	1000	100	500	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	0.119 D	0.802 D	<0.302 U	0.117 D	0.113 D	0.306 D	<0.0594 U
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	3.9	56	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	0.112 JD	**2.58 D**	<0.302 U	0.141 D	0.171 D	0.399 D	<0.0594 U
Benzoic Acid	65-85-0	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	0.443 D	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
Benzyl Alcohol	100-51-6	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 U	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 U	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 U	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 U	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 U	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 U	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	NS	mg/kg	0.17 D	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	10.2 D	<0.302 U	0.373 D	0.174 D	<0.0496 U	<0.0594 U
Caprolactam	105-60-2	NS	NS	NS	NS	mg/kg	<0.119 U	<0.115 U	<0.131 U	<0.118 U	<0.118 U	<0.107 U	<0.603 U	<0.0937 U	<0.104 U	<0.0989 U	<0.118 U
Carbazole	86-74-8	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	0.705 D	<0.302 U	<0.047 U	<0.0519 U	0.0973 JD	<0.0594 U
Chrysene	218-01-9	**1**	1	3.9	56	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	0.086 JD	**2.86 D**	<0.302 U	0.186 D	0.226 D	0.55 D	<0.0594 U
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.33	0.56	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	**0.352 D**	<0.302 U	<0.047 U	0.0522 JD	0.0894 JD	<0.0594 U
Dibenzofuran	132-64-9	7	210	59	350	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 U	<0.302 U	<0.047 U	<0.0519 U	0.0949 JD	<0.0594 U
Dibutyl phthalate	84-74-2	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	0.0719 JD	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
Diethyl phthalate	84-66-2	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 U	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
Dimethyl phthalate	131-11-3	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 U	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
Dioctyl phthalate	117-84-0	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 U	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
Diphenylamine	122-39-4	NS	NS	NS	NS	mg/kg	<0.119 U	<0.115 U	<0.131 U	<0.118 U	<0.118 U	<0.107 U	<0.603 U	<0.0937 U	<0.104 U	<0.0989 U	<0.118 U
Fluoranthene	206-44-0	100	1000	100	500	mg/kg	0.106 JD	0.0881 JD	<0.0658 U	<0.0592 U	0.0633 JD	7.62 D	<0.302 U	0.348 D	0.373 D	1.37 D	<0.0594 U
Fluorene	86-73-7	30	386	100	500	mg/kg	0.137 D	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	1.29 D	<0.302 U	<0.047 U	<0.0519 U	0.112 D	<0.0594 U
Hexachlorobenzene	118-74-1	0.33	3.2	1.2	6	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 U	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 UJ	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 UJ	<0.0658 U	<0.0592 U	<0.0593 UJ	<0.0537 U	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
Hexachloroethane	67-72-1	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 U	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	0.5	5.6	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	0.128 D	**0.845 D**	<0.302 U	0.101 D	0.104 D	0.275 D	<0.0594 U
Isophorone	78-59-1	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 U	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
Naphthalene	91-20-3	12	12	100	500	mg/kg	0.207 D	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	0.497 D	<0.302 U	<0.047 U	<0.0519 U	0.109 D	<0.0594 U
Nitrobenzene	98-95-3	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 U	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
n-Nitrosodimethylamine	62-75-9	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 U	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 U	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	NS	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 U	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	6.7	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 UJ	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
Phenanthrene	85-01-8	100	1000	100	500	mg/kg	<0.0594 U	0.639 D	<0.0658 U	<0.0592 U	<0.0593 U	8.11 D	<0.302 U	0.158 D	0.212 D	1.03 D	<0.0594 U
Phenol	108-95-2	0.33	0.33	100	500	mg/kg	<0.0594 U	<0.0576 U	<0.0658 U	<0.0592 U	<0.0593 U	<0.0537 UJ	<0.302 U	<0.047 U	<0.0519 U	<0.0496 U	<0.0594 U
Pyrene	129-00-0	100	1000	100	500	mg/kg	0.252 D	0.124 D	<0.0658 U	<0.0592 U	0.0643 JD	8.1 D	<0.302 U	0.359 J	0.47 J	1.74 D	<0.0594 U
Pyridine	110-86-1	NS	NS	NS	NS	mg/kg	<0.237 U	<0.23 U	<0.263 U	<0.236 U	<0.237 U	<0.214 U	<1.21 U	<0.188 U	<0.207 U	<0.198 U	<0.237 U

Notes provided on Page 16.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3D
Remedial Investigation Report
Soil Sample Analytical Results - Block 1823 (H)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	H-SB115SE2	H-SB115SE3	H-SB115SE4	H-SB115SW	H-SB115SW	H-SB116	H-SB116	H-SB117	H-SB117	H-SB117	H-SB117
						Sample Name	H-SB115SE2_6-8	H-SB115SE3_7-9	H-SB115SE4_6-8	H-SB115SW_6-8	DUP14_100621	H-SB116_0-2	H-SB116_5-7	H-SB117_0-2	DUP13_100521	H-SB117_11-12	H-SB117_13-15
						Sample Date	10/06/2021	10/06/2021	10/06/2021	10/06/2021	10/06/2021	10/05/2021	10/05/2021	10/05/2021	10/05/2021	10/05/2021	10/05/2021
						Sample Depth	6-8	7-9	6-8	6-8	6-8	0-2	5-7	0-2	0-2	11-12	13-15
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Petroleum Hydrocarbons																	
Total Petroleum Hydrocarbons	TPH	NS	NS	NS	NS	UNKNOWN	<1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides																	
4,4'-DDD	72-54-8	**0.0033**	14	13	92	mg/kg	NA	NA	NA	NA	NA	<0.00211 U	<0.00238 U	**0.00614 J**	**0.00683 J**	<0.00195 U	<0.00239 U
4,4'-DDE	72-55-9	**0.0033**	17	8.9	62	mg/kg	NA	NA	NA	NA	NA	<0.00211 U	<0.00238 U	**0.0165 D**	**0.0209 D**	<0.00195 U	<0.00239 U
4,4'-DDT	50-29-3	**0.0033**	136	7.9	47	mg/kg	NA	NA	NA	NA	NA	<0.00211 U	<0.00238 U	**0.0135 J**	**0.0132 J**	<0.00195 U	<0.00239 U
Aldrin	309-00-2	0.005	0.19	0.097	0.68	mg/kg	NA	NA	NA	NA	NA	<0.00211 U	<0.00238 U	<0.00186 U	<0.00204 U	<0.00195 U	<0.00239 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	0.48	3.4	mg/kg	NA	NA	NA	NA	NA	<0.00211 U	<0.00238 U	<0.00186 U	<0.00204 U	<0.00195 U	<0.00239 U
Alpha Chlordane	5103-71-9	0.094	2.9	4.2	24	mg/kg	NA	NA	NA	NA	NA	<0.00211 U	<0.00238 U	<0.00186 UJ	<0.00204 UJ	<0.00195 U	<0.00239 U
Alpha Endosulfan	959-98-8	2.4	102	24	200	mg/kg	NA	NA	NA	NA	NA	<0.00211 U	<0.00238 U	<0.00186 U	<0.00204 U	<0.00195 U	<0.00239 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	0.36	3	mg/kg	NA	NA	NA	NA	NA	<0.00211 U	<0.00238 U	<0.00186 U	<0.00204 U	<0.00195 U	<0.00239 U
Beta Endosulfan	33213-65-9	2.4	102	24	200	mg/kg	NA	NA	NA	NA	NA	<0.00211 U	<0.00238 U	<0.00186 U	<0.00204 U	<0.00195 U	<0.00239 U
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	<0.0422 U	<0.0476 U	<0.0372 UJ	<0.0409 UJ	<0.039 U	<0.0478 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	100	500	mg/kg	NA	NA	NA	NA	NA	<0.00211 U	<0.00238 U	<0.00186 U	<0.00204 U	<0.00195 U	<0.00239 U
Dieldrin	60-57-1	**0.005**	0.1	0.2	1.4	mg/kg	NA	NA	NA	NA	NA	<0.00211 U	<0.00238 U	**0.00889 J**	**0.0131 J**	<0.00195 U	<0.00239 U
Endosulfan Sulfate	1031-07-8	2.4	1000	24	200	mg/kg	NA	NA	NA	NA	NA	<0.00211 U	<0.00238 U	<0.00186 U	<0.00204 U	<0.00195 U	<0.00239 U
Endrin	72-20-8	0.014	0.06	11	89	mg/kg	NA	NA	NA	NA	NA	<0.00211 U	<0.00238 U	<0.00186 U	<0.00204 U	<0.00195 U	<0.00239 U
Endrin Aldehyde	7421-93-4	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	<0.00211 U	<0.00238 U	<0.00186 U	<0.00204 U	<0.00195 U	<0.00239 U
Endrin Ketone	53494-70-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	<0.00211 U	<0.00238 U	<0.00186 U	<0.00204 U	<0.00195 U	<0.00239 U
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	1.3	9.2	mg/kg	NA	NA	NA	NA	NA	<0.00211 U	<0.00238 U	<0.00186 U	<0.00204 U	<0.00195 U	<0.00239 U
Gamma-Chlordane	5566-34-7	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	<0.00211 U	<0.00238 U	<0.00186 UJ	<0.00204 UJ	<0.00195 U	<0.00239 U
Heptachlor	76-44-8	0.042	0.38	2.1	15	mg/kg	NA	NA	NA	NA	NA	<0.00211 U	<0.00238 U	<0.00186 U	<0.00204 U	<0.00195 U	<0.00239 U
Heptachlor Epoxide	1024-57-3	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	<0.00211 U	<0.00238 U	<0.00186 U	<0.00204 U	<0.00195 U	<0.00239 U
Methoxychlor	72-43-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	<0.00211 U	<0.00238 U	<0.00186 U	<0.00204 U	<0.00195 U	<0.00239 U
Toxaphene	8001-35-2	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	<0.211 U	<0.238 U	<0.186 U	<0.204 U	<0.195 U	<0.239 U
Herbicides																	
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	<0.0257 U	<0.0292 U	<0.0222 U	<0.0248 U	<0.0237 U	<0.0283 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	<0.0257 U	<0.0292 U	<0.0222 U	<0.0248 U	<0.0237 U	<0.0283 U
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	100	500	mg/kg	NA	NA	NA	NA	NA	<0.0257 U	<0.0292 U	<0.0222 U	<0.0248 U	<0.0237 U	<0.0283 U
Polychlorinated Biphenyl																	
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	<0.0213 U	<0.024 UJ	<0.0188 U	<0.0206 U	<0.0197 U	<0.0241 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	<0.0213 U	<0.024 UJ	<0.0188 U	<0.0206 U	<0.0197 U	<0.0241 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	<0.0213 U	<0.024 UJ	<0.0188 U	<0.0206 U	<0.0197 U	<0.0241 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	<0.0213 U	<0.024 UJ	<0.0188 U	<0.0206 U	<0.0197 U	<0.0241 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	0.0791	<0.024 UJ	<0.0188 U	<0.0206 U	<0.0197 U	<0.0241 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	<0.0213 U	<0.024 UJ	0.0482	<0.0206 U	<0.0197 U	<0.0241 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	0.0605	<0.024 UJ	<0.0188 U	0.0243	<0.0197 U	<0.0241 U
Total PCBs	1336-36-3	**0.1**	3.2	1	1	mg/kg	NA	NA	NA	NA	NA	**0.14**	<0.024 UJ	0.0482	0.0243	<0.0197 U	<0.0241 U
Metals																	
Aluminum	7429-90-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	6,590	4,190	11,100 J	12,500 J	2,610	20,200
Antimony	7440-36-0	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	<3.23 U	5.3	<2.84 UJ	3.71	<2.98 U	5.88
Arsenic	7440-38-2	**13**	16	16	16	mg/kg	NA	NA	NA	NA	NA	4.1	<2.2 U	6.28	8.86	3.25	6
Barium	7440-39-3	**350**	820	400	400	mg/kg	NA	NA	NA	NA	NA	206	**1,440**	141 J	129 J	49.6	63.2
Beryllium	7440-41-7	7.2	47	72	590	mg/kg	NA	NA	NA	NA	NA	<0.065 U	0.376	<0.057 U	<0.062 U	<0.06 U	<0.073 U
Cadmium	7440-43-9	**2.5**	7.5	4.3	9.3	mg/kg	NA	NA	NA	NA	NA	**6.62**	2.18	0.846	0.919	<0.357 U	0.44
Calcium	7440-70-2	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	49,800 B	5,380	9,150 J	9,460	5,660	4,260
Chromium, Hexavalent	18540-29-9	1	19	110	400	mg/kg	NA	NA	NA	NA	NA	<0.646 U	<0.733 U	<0.567 UJ	<0.623 U	<0.595 U	<0.729 U
Chromium, Total	7440-47-3	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	92.7	21	20 J	23.4 J	12.1	39.1
Chromium, Trivalent	16065-83-1	**30**	NS	180	1500	mg/kg	NA	NA	NA	NA	NA	**92.7**	21	20 J	23.4 J	12.1	**39.1**
Cobalt	7440-48-4	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	6.25	8.31	5.87 J	7.72 J	3.49	13.5
Copper	7440-50-8	**50**	1720	270	270	mg/kg	NA	NA	NA	NA	NA	**170**	**230**	**85.2**	**91.7**	19.9	19.9
Cyanide	57-12-5	27	40	27	27	mg/kg	NA	NA	NA	NA	NA	1.09	<0.733 U	<0.567 U	<0.623 U	<0.595 U	<0.729 U
Iron	7439-89-6	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	23,500	35,400	16,400 J	18,300 J	8,290	35,900
Lead	7439-92-1	**63**	450	400	1000	mg/kg	NA	NA	NA	NA	NA	**302**	**287**	**210 J**	**221 J**	**79.4**	22.7
Magnesium	7439-95-4	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	12,200	659	4,350 J	3,780	1,560	9,200
Manganese	7439-96-5	1600	2000	2000	10000	mg/kg	NA	NA	NA	NA	NA	233	157	266 J	304 J	101	975
Mercury	7439-97-6	**0.18**	0.73	0.81	2.8	mg/kg	NA	NA	NA	NA	NA	0.167	0.18	**0.208 J**	**0.639 J**	0.139	0.0806
Nickel	7440-02-0	**30**	130	310	310	mg/kg	NA	NA	NA	NA	NA	**36.7 J**	**35.2 J**	16.7 J	19.1 J	6.94 J	28.6 J
Potassium	7440-09-7	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	1,210	376	1,040 J	1,340 J	563	4,940
Selenium	7782-49-2	**3.9**	4	180	1500	mg/kg	NA	NA	NA	NA	NA	<3.23 U	<3.66 U	<2.84 U	<3.12 U	<2.98 U	<3.64 U
Silver	7440-22-4	**2**	8.3	180	1500	mg/kg	NA	NA	NA	NA	NA	1.62	<0.733 U	0.724 J	<0.623 U	<0.595 U	<0.729 U
Sodium	7440-23-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	407	221	163	210	134	4,150
Thallium	7440-28-0	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	<3.23 U	<3.66 U	<2.84 U	<3.12 U	<2.98 U	<3.64 U
Vanadium	7440-62-2	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	30	19.8	37.1 J	39.2 J	7.58	48.1
Zinc	7440-66-6	**109**	2480	10000	10000	mg/kg	NA	NA	NA	NA	NA	**408**	**1,480**	**152 J**	**163**	**118**	84.4
General Chemistry																	
Solids, Percent	SOLID	NS	NS	NS	NS	Percent	69.9	71.2	63.4	69.9	70.1	77.4	68.2	88.1	80.2	84	68.6
Perfluorooctanoic acids																	
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	<0.000311 U	<0.000346 U	0.000264	0.00036	<0.000258 U	<0.000342 U
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOSA	2355-31-9	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	<0.000311 U	<0.000346 U	<0.000256 U	<0.000289 U	<0.000258 U	<0.000342 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	<0.000311 U	<0.000346 U	<0.000256 U	<0.000289 U	<0.000258 U	<0.000342 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	0.000518	<0.000346 U	0.00045	0.000342	<0.000258 U	<0.000342 U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	<0.000311 U	<0.000346 U	<0.000256 U	<0.000289 U	<0.000258 U	<0.000342 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	<0.000311 U	<0.000346 U	<0.000256 U	<0.000289 U	<0.000258 U	<0.000342 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	<0.000311 U	<0.000346 U	<0.000256 U	<0.000289 U	<0.000258 U	<0.000342 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	<0.000311 U	<0.000346 U	<0.000256 U	<0.000289 U	<0.000258 U	<0.000342 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	<0.000311 U	<0.000346 U	<0.000256 U	0.000293	<0.000258 U	<0.000342 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	<0.000311 U	<0.000346 U	<0.000256 U	<0.000289 U	<0.000258 U	<0.000342 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	<0.000311 U	<0.000346 U	<0.000256 U	<0.000289 U	<0.000258 U	<0.000342 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	<0.000311 U	<0.000346 U	<0.000256 U	<0.000289 U	<0.000258 U	<0.000342 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	<0.000311 U	<0.000346 U	<0.000256 U	<0.000289 U	<0.000258 U	<0.000342 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.044	0.44	mg/kg	NA	NA	NA	NA	NA	<0.000311 U	<0.000346 U	0.000484 J	**0.000905 J**	<0.000258 U	<0.000342 U
Perfluorooctanoic Acid (PFOA)	335-67-1	0.00066	0.0011	0.033	0.5	mg/kg	NA	NA	NA	NA	NA	<0.000311 U	<0.000346 U	0.000366	0.000391	<0.000258 U	<0.000342 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	<0.000311 U	<0.000346 U	<0.000256 U	<0.000289 U	0.000271	<0.000342 U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	<0.000311 U	<0.000346 U	<0.000256 U	<0.000289 U	<0.000258 U	<0.000342 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	<0.000311 U	<0.000346 U	<0.000256 U	<0.000289 U	<0.000258 U	<0.000342 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	<0.000311 U	<0.000346 U	<0.000256 U	<0.000289 U	<0.000258 U	<0.000342 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FTS	39108-34-4	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	<0.000311 U	<0.000346 U	<0.000256 U	<0.000289 U	<0.000258 U	<0.000342 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FTS	27619-97-2	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	<0.000311 U	<0.000346 U	<0.000256 U	<0.000289 U	<0.000258 U	<0.000342 U

Notes provided on Page 16.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3D
Remedial Investigation Report
Soil Sample Analytical Results - Block 1823 (H)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Notes:

CAS - Chemical Abstract Service
NS - No standard
mg/kg - milligram per kilogram
NA - Not analyzed
RL - Reporting limit
<RL - Not detected
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 Unrestricted Use (UU), Protection of Groundwater (PGW), Restricted Use Restricted-Residential (RURR), and Restricted Use Commercial (CU) Soil Cleanup Objectives (SCO).
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).

Qualifiers:

D - The concentration reported is a result of a diluted sample.
B - The analyte was found in the associated analysis batch blank.
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.

Exceedance Summary:

10 - Result exceeds Unrestricted Use SCOs
10 - Result exceeds Protection of Groundwater SCOs
10 - Result exceeds Restricted Use Restricted-Residential SCOs
10 - Result exceeds Restricted Use Commercial SCOs

Table 3E
Remedial Investigation Report
Soil Sample Analytical Results - Block 1822 (I)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	I-EP101	I-EP101	I-EP101	I-EP102	I-EP102	I-EP102	I-EP103	I-EP103	I-EP104	I-EP107	I-EP107	I-EP108	I-EP108	I-EP108E	I-EP108N	I-EP108W
						Sample Name	I-EP101_0-2	I-EP101_7-9	I-EP101_10-12	I-EP102_0-2	I-EP102_5-7	I-EP102_9-11	I-EP103_5.5-7.5	SODUP09_092821	I-EP104_6-8	I-EP107_0-2	I-EP107_9-11	I-EP108_6-8	I-EP108_9-11	I-EP108E_7.5-9.5	I-EP108N_7.5-9.5	I-EP108W_7-9
						Sample Date	09/29/2021	09/29/2021	09/29/2021	09/29/2021	09/29/2021	09/29/2021	09/28/2021	09/28/2021	09/27/2021	09/28/2021	09/28/2021	09/29/2021	09/29/2021	09/29/2021	09/29/2021	09/29/2021
						Sample Depth	0-2	7-9	10-12	0-2	5-7	9-11	5.5-7.5	5.5-7.5	6-8	0-2	9-11	6-8	9-11	7.5-9.5	7.5-9.5	7-9
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																						
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	500	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.005 U	<0.0039 UJ	<0.0023 U	<0.0018 U	<0.0039 UJ	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 UJ	<0.0037 UJ	<0.0027 U	<0.0025 U	<0.27 U
1,1-Dichloroethane	75-34-3	0.27	0.27	26	240	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
1,1-Dichloroethene	75-35-4	0.33	0.33	100	500	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
1,2,4-Trimethylbenzene	95-63-6	**3.6**	3.6	52	190	mg/kg	0.0056	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	**41 D**	1 D	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.005 U	<0.0039 UJ	<0.0023 U	<0.0018 U	<0.0039 UJ	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 UJ	<0.0037 UJ	<0.0027 U	<0.0025 U	<0.27 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	500	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
1,2-Dichloroethane	107-06-2	0.02	0.02	3.1	30	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	**8.4**	8.4	52	190	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	**14 D**	0.43 JD	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	280	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	130	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.055 U	<0.1 U	<0.078 U	<0.045 U	<0.037 U	<0.078 U	<5.4 U	<5.5 U	<23 U	<4.6 U	<0.058 U	<6.8 U	<0.074 U	<0.054 U	<0.051 U	<5.4 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
Acetone	67-64-1	**0.05**	0.05	100	500	mg/kg	**0.074**	**0.061**	**0.059**	0.044	0.02	0.037	<0.54 U	<0.55 U	<2.3 U	<0.46 U	0.031	<0.68 U	0.029	**0.075 J**	**0.066**	<0.54 U
Acrolein	107-02-8	NS	NS	NS	NS	mg/kg	<0.0055 U	<0.01 U	<0.0078 U	0.0053 J	<0.0037 U	<0.0078 U	<0.54 U	<0.55 U	<2.3 U	<0.46 U	<0.0058 U	<0.68 U	<0.0074 U	<0.0054 U	<0.0051 U	<0.54 U
Acrylonitrile	107-13-1	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
Benzene	71-43-2	**0.06**	0.06	4.8	44	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	**0.64 D**	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
Bromochloromethane	74-97-5	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
Bromodichloromethane	75-27-4	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
Bromoform	75-25-2	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 UJ	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 UJ	<0.0025 U	<0.27 U
Bromomethane	74-83-9	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
Carbon Disulfide	75-15-0	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	0.0038 J	<0.34 U	0.0098	<0.0027 U	<0.0025 U	<0.27 U
Carbon Tetrachloride	56-23-5	0.76	0.76	2.4	22	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
Chlorobenzene	108-90-7	1.1	1.1	100	500	mg/kg	<0.0027 U	<0.005 U	<0.0039 UJ	<0.0023 U	<0.0018 U	<0.0039 UJ	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 UJ	<0.0037 UJ	<0.0027 U	<0.0025 U	<0.27 U
Chloroethane	75-00-3	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
Chloroform	67-66-3	0.37	0.37	49	350	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
Chloromethane	74-87-3	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	100	500	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
Cyclohexane	110-82-7	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.005 U	<0.0039 UJ	<0.0023 U	<0.0018 U	<0.0039 UJ	1 D	0.46 JD	20 D	4.4 D	<0.0029 U	<0.34 UJ	<0.0037 UJ	<0.0027 U	<0.0025 U	<0.27 U
Dibromochloromethane	124-48-1	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
Dibromomethane	74-95-3	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
Ethylbenzene	100-41-4	**1**	1	41	390	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	**9.3 D**	**17 D**	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	1 D	0.79 D	1.7 JD	2.8 D	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
M,P-Xylene	179601-23-1	NS	NS	NS	NS	mg/kg	<0.0055 U	<0.01 U	<0.0078 U	<0.0045 U	<0.0037 U	<0.0078 U	<0.54 U	<0.55 U	43 D	2.2 D	<0.0058 U	<0.68 U	<0.0074 U	<0.0054 U	<0.0051 U	<0.54 U
Methyl Acetate	79-20-9	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	0.12	0.12	100	500	mg/kg	0.015	0.014	0.016	0.0087	<0.0018 U	0.0099	<0.27 U	<0.27 U	<1.2 U	<0.23 U	0.0059	<0.34 U	0.0069 J	0.02 J	0.014	<0.27 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
Methylcyclohexane	108-87-2	NS	NS	NS	NS	mg/kg	0.0048 J	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	4.4 D	3.4 D	5.7 D	11 D	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
Methylene Chloride	75-09-2	0.05	0.05	100	500	mg/kg	<0.0055 U	<0.02 U	<0.016 U	<0.009 U	<0.0074 U	0.022 J	<0.54 U	<0.55 U	<2.3 U	<0.46 U	0.016	<0.68 U	<0.0074 U	<0.0054 U	<0.0051 U	<0.54 U
n-Butylbenzene	104-51-8	**12**	12	100	500	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	0.0085	<0.0018 U	<0.0039 U	1.1 D	0.8 J	3.5 D	3 D	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 UJ	<0.0025 U	<0.27 U
n-Propylbenzene	103-65-1	**3.9**	3.9	100	500	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	0.0038 J	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	**6.6 D**	**9.5 D**	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	15 D	0.49 D	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
Sec-Butylbenzene	135-98-8	**11**	11	100	500	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	0.0078	<0.0018 U	<0.0039 U	0.86 D	0.63 D	<1.2 U	1.3 D	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
Styrene	100-42-5	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
T-Butylbenzene	98-06-6	5.9	5.9	100	500	mg/kg	<0.0027 U	<0.005 U	<0.0039 UJ	<0.0023 U	<0.0018 U	<0.0039 UJ	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 UJ	<0.0037 UJ	<0.0027 U	<0.0025 U	<0.27 U
Tert-Butyl Alcohol	75-65-0	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.005 UJ	<0.0039 UJ	<0.0023 UJ	<0.0018 UJ	<0.0039 UJ	<0.27 UJ	<0.27 UJ	<1.2 U	<0.23 UJ	0.011 J	<0.34 UJ	<0.0037 UJ	0.0073 J	<0.0025 UJ	<0.27 U
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	100	500	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	0.0071 J	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	19	150	mg/kg	<0.0027 U	<0.005 U	<0.0039 UJ	<0.0023 U	<0.0018 U	<0.0039 UJ	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 UJ	<0.0037 UJ	<0.0027 U	<0.0025 U	<0.27 U
Toluene	108-88-3	**0.7**	0.7	100	500	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	**5.1 D**	0.27 JD	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
Total Xylenes	1330-20-7	**0.26**	1.6	100	500	mg/kg	<0.0082 U	<0.015 U	<0.012 U	<0.0068 U	<0.0055 U	<0.012 U	<0.81 U	<0.82 U	**58 D**	**2.7 D**	<0.0088 U	<1 U	<0.011 U	<0.0081 U	<0.0076 U	<0.81 U
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	100	500	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
Trichloroethene (TCE)	79-01-6	0.47	0.47	21	200	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	NS	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U
Vinyl Chloride	75-01-4	0.02	0.02	0.9	13	mg/kg	<0.0027 U	<0.005 U	<0.0039 U	<0.0023 U	<0.0018 U	<0.0039 U	<0.27 U	<0.27 U	<1.2 U	<0.23 U	<0.0029 U	<0.34 U	<0.0037 U	<0.0027 U	<0.0025 U	<0.27 U

Notes provided on Page 10.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3E
Remedial Investigation Report
Soil Sample Analytical Results - Block 1822 (I)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	I-EP101	I-EP101	I-EP101	I-EP102	I-EP102	I-EP102	I-EP103	I-EP103	I-EP104	I-EP107	I-EP107	I-EP108	I-EP108	I-EP108E	I-EP108N	I-EP108W
						Sample Name	I-EP101_0-2	I-EP101_7-9	I-EP101_10-12	I-EP102_0-2	I-EP102_5-7	I-EP102_9-11	I-EP103_5.5-7.5	SODUP09_092821	I-EP104_6-8	I-EP107_0-2	I-EP107_9-11	I-EP108_6-8	I-EP108_9-11	I-EP108E_7.5-9.5	I-EP108N_7.5-9.5	I-EP108W_7-9
						Sample Date	09/29/2021	09/29/2021	09/29/2021	09/29/2021	09/29/2021	09/29/2021	09/28/2021	09/28/2021	09/27/2021	09/28/2021	09/28/2021	09/29/2021	09/29/2021	09/29/2021	09/29/2021	09/29/2021
						Sample Depth	0-2	7-9	10-12	0-2	5-7	9-11	5.5-7.5	5.5-7.5	6-8	0-2	9-11	6-8	9-11	7.5-9.5	7.5-9.5	7-9
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																						
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	NS	mg/kg	<0.452 U	<0.189 U	<0.136 U	<0.0982 U	<0.0967 U	<0.14 U	<0.099 U	<0.111 U	<0.0973 U	<0.0888 U	<0.106 U	<0.103 U	<0.136 U	<0.11 U	<0.0997 U	<0.106 U
1,2-Diphenylhydrazine	122-66-7	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.0196 U	<0.0194 U	<0.019 U	<0.0194 U	<0.019 U	<0.0183 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	NS	mg/kg	<0.452 U	<0.189 U	<0.136 U	<0.0982 U	<0.0967 U	<0.14 U	<0.099 U	<0.111 U	<0.0973 U	<0.0888 U	<0.106 U	<0.103 U	<0.136 U	<0.11 U	<0.0997 U	<0.106 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	NS	mg/kg	<0.452 U	<0.189 U	<0.136 U	<0.0982 UJ	<0.0967 UJ	<0.14 UJ	<0.099 U	<0.111 U	<0.0973 U	<0.0888 U	<0.106 U	<0.103 UJ	<0.136 UJ	<0.11 UJ	<0.0997 UJ	<0.106 UJ
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
2-Chlorophenol	95-57-8	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	NS	mg/kg	0.788 D	<0.095 U	<0.0683 U	0.402 D	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	0.124 D	5.72 D	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	500	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
2-Nitroaniline	88-74-4	NS	NS	NS	NS	mg/kg	<0.452 U	<0.189 U	<0.136 U	<0.0982 U	<0.0967 U	<0.14 U	<0.099 U	<0.111 U	<0.0973 U	<0.0888 U	<0.106 U	<0.103 U	<0.136 U	<0.11 U	<0.0997 U	<0.106 U
2-Nitrophenol	88-75-5	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	0.33	0.33	100	500	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
3-Nitroaniline	99-09-2	NS	NS	NS	NS	mg/kg	<0.452 U	<0.189 U	<0.136 U	<0.0982 U	<0.0967 U	<0.14 U	<0.099 U	<0.111 U	<0.0973 U	<0.0888 U	<0.106 U	<0.103 U	<0.136 U	<0.11 U	<0.0997 U	<0.106 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	NS	mg/kg	<0.452 U	<0.189 U	<0.136 U	<0.0982 U	<0.0967 U	<0.14 U	<0.099 U	<0.111 U	<0.0973 U	<0.0888 U	<0.106 U	<0.103 U	<0.136 U	<0.11 U	<0.0997 U	<0.106 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
4-Chloroaniline	106-47-8	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
4-Nitroaniline	100-01-6	NS	NS	NS	NS	mg/kg	<0.452 U	<0.189 U	<0.136 U	<0.0982 U	<0.0967 U	<0.14 U	<0.099 U	<0.111 U	<0.0973 U	<0.0888 U	<0.106 U	<0.103 U	<0.136 U	<0.11 U	<0.0997 U	<0.106 U
4-Nitrophenol	100-02-7	NS	NS	NS	NS	mg/kg	<0.452 U	<0.189 U	<0.136 U	<0.0982 U	<0.0967 U	<0.14 U	<0.099 U	<0.111 U	<0.0973 U	<0.0888 U	<0.106 U	<0.103 U	<0.136 U	<0.11 U	<0.0997 U	<0.106 U
Acenaphthene	83-32-9	20	98	100	500	mg/kg	<0.227 U	<0.095 U	<0.0683 U	1.35 D	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
Acenaphthylene	208-96-8	100	107	100	500	mg/kg	<0.227 U	<0.095 U	<0.0683 U	0.107 D	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
Acetophenone	98-86-2	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	NS	NS	NS	mg/kg	<0.906 U	<0.379 U	<0.273 U	<0.197 U	<0.194 U	<0.281 U	<0.198 U	<0.223 U	<0.195 U	<0.178 U	<0.213 U	<0.206 U	<0.272 U	<0.22 U	<0.2 U	<0.212 U
Anthracene	120-12-7	100	1000	100	500	mg/kg	0.271 JD	<0.095 U	<0.0683 U	3.02 D	0.0997 D	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	0.225 D	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
Atrazine	1912-24-9	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
Benzaldehyde	100-52-7	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
Benzidine	92-87-5	NS	NS	NS	NS	mg/kg	<0.906 U	<0.379 U	<0.273 U	<0.197 U	<0.194 U	<0.281 U	<0.198 U	<0.223 U	<0.195 U	<0.178 U	<0.213 U	<0.206 U	<0.272 U	<0.22 U	<0.2 U	<0.212 U
Benzo(a)anthracene	56-55-3	**1**	1	1	5.6	mg/kg	0.448 JD	0.65 D	<0.0683 U	**6.45 D**	0.182 D	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	0.222 D	<0.0533 U	0.0691 JD	<0.0682 U	<0.0552 U	<0.05 U	0.198 D
Benzo(a)pyrene	50-32-8	**1**	22	1	1	mg/kg	0.528 D	0.691 D	<0.0683 U	**4.58 D**	0.136 D	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	0.223 D	<0.0533 U	0.0839 JD	<0.0682 U	<0.0552 U	<0.05 U	0.23 D
Benzo(b)fluoranthene	205-99-2	**1**	1.7	1	5.6	mg/kg	0.495 D	0.586 D	<0.0683 U	**3.81 D**	0.135 D	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	0.14 D	<0.0533 U	0.0691 JD	<0.0682 U	<0.0552 U	<0.05 U	0.223 D
Benzo(g,h,i)Perylene	191-24-2	100	1000	100	500	mg/kg	0.296 JD	0.326 D	<0.0683 U	2.38 D	0.0781 JD	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	0.142 D	<0.0533 U	0.0625 JD	<0.0682 U	<0.0552 U	<0.05 U	0.128 D
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	3.9	56	mg/kg	0.495 D	0.566 D	<0.0683 U	**3.44 D**	0.11 D	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	0.216 D	<0.0533 U	0.0658 JD	<0.0682 U	<0.0552 U	<0.05 U	0.177 D
Benzoic Acid	65-85-0	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
Benzyl Alcohol	100-51-6	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	0.0879 JD	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	0.314 D	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	NS	mg/kg	1.53 D	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	0.0775 JD	0.0898 JD	0.135 D	2.55 D	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	0.141 D	<0.053 U
Caprolactam	105-60-2	NS	NS	NS	NS	mg/kg	<0.452 U	<0.189 U	<0.136 U	<0.0982 U	<0.0967 U	<0.14 U	<0.099 U	<0.111 U	<0.0973 U	<0.0888 U	<0.106 U	<0.103 U	<0.136 U	<0.11 U	<0.0997 U	<0.106 U
Carbazole	86-74-8	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	0.811 D	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	0.0603 JD	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
Chrysene	218-01-9	**1**	1	3.9	56	mg/kg	0.694 D	0.689 D	<0.0683 U	**6.62 D**	0.159 D	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	0.281 D	<0.0533 U	0.0674 JD	<0.0682 U	<0.0552 U	<0.05 U	0.214 D
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.33	0.56	mg/kg	<0.227 U	<0.095 U	<0.0683 U	**1.25 D**	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
Dibenzofuran	132-64-9	7	210	59	350	mg/kg	<0.227 U	<0.095 U	<0.0683 U	0.388 D	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
Dibutyl phthalate	84-74-2	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
Diethyl phthalate	84-66-2	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
Dimethyl phthalate	131-11-3	NS	NS	NS	NS	mg/kg	0.362 JD	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
Dioctyl phthalate	117-84-0	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
Diphenylamine	122-39-4	NS	NS	NS	NS	mg/kg	<0.452 U	<0.189 U	<0.136 U	<0.0982 U	<0.0967 U	<0.14 U	<0.099 U	<0.111 U	<0.0973 U	<0.0888 U	<0.106 U	<0.103 U	<0.136 U	<0.11 U	<0.0997 U	<0.106 U
Fluoranthene	206-44-0	100	1000	100	500	mg/kg	1.02 D	0.636 D	<0.0683 U	11.4 D	0.383 D	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	0.424 D	<0.0533 U	0.0576 JD	<0.0682 U	<0.0552 U	0.0789 JD	0.237 D
Fluorene	86-73-7	30	386	100	500	mg/kg	<0.227 U	<0.095 U	<0.0683 U	1.46 D	0.0603 JD	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
Hexachlorobenzene	118-74-1	0.33	3.2	1.2	6	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 UJ	<0.0485 UJ	<0.0704 UJ	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 UJ	<0.0682 UJ	<0.0552 UJ	<0.05 UJ	<0.053 UJ
Hexachloroethane	67-72-1	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	0.5	5.6	mg/kg	0.249 JD	0.292 D	<0.0683 U	**3 D**	0.0843 JD	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	0.141 D	<0.0533 U	0.0666 JD	<0.0682 U	<0.0552 U	<0.05 U	0.138 D
Isophorone	78-59-1	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
Naphthalene	91-20-3	12	12	100	500	mg/kg	0.459 D	<0.095 U	<0.0683 U	0.22 D	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	0.0918 JD	5.98 D	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
Nitrobenzene	98-95-3	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
n-Nitrosodimethylamine	62-75-9	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	NS	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	6.7	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
Phenanthrene	85-01-8	100	1000	100	500	mg/kg	0.748 D	0.153 JD	<0.0683 U	13.5 D	0.386 D	<0.0704 U	0.0672 JD	0.0818 JD	<0.0488 U	1.26 D	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	0.0741 JD	0.0642 JD
Phenol	108-95-2	0.33	0.33	100	500	mg/kg	<0.227 U	<0.095 U	<0.0683 U	<0.0492 U	<0.0485 U	<0.0704 U	<0.0496 U	<0.0557 U	<0.0488 U	<0.0445 U	<0.0533 U	<0.0516 U	<0.0682 U	<0.0552 U	<0.05 U	<0.053 U
Pyrene	129-00-0	100	1000	100	500	mg/kg	1.49 D	0.685 D	<0.0683 U	13.3 D	0.328 D	<0.0704 U	0.0712 JD	0.0729 JD	0.0576 JD	0.63 D	<0.0533 U	0.0658 JD	<0.0682 U	<0.0552 U	0.0893 JD	0.264 D
Pyridine	110-86-1	NS	NS	NS	NS	mg/kg	<0.906 U	<0.379 U	<0.273 U	<0.197 U	<0.194 U	<0.281 U	<0.198 U	<0.223 U	<0.195 U	<0.178 U	<0.213 U	<0.206 U	<0.272 U	<0.22 U	<0.2 U	<0.212 U

Notes provided on Page 10.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3E
Remedial Investigation Report
Soil Sample Analytical Results - Block 1822 (I)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	I-EP101	I-EP101	I-EP101	I-EP102	I-EP102	I-EP102	I-EP103	I-EP103	I-EP104	I-EP107	I-EP107	I-EP108	I-EP108	I-EP108E	I-EP108N	I-EP108W
						Sample Name	I-EP101_0-2	I-EP101_7-9	I-EP101_10-12	I-EP102_0-2	I-EP102_5-7	I-EP102_9-11	I-EP103_5.5-7.5	SODUP09_092821	I-EP104_6-8	I-EP107_0-2	I-EP107_9-11	I-EP108_6-8	I-EP108_9-11	I-EP108E_7.5-9.5	I-EP108N_7.5-9.5	I-EP108W_7-9
						Sample Date	09/29/2021	09/29/2021	09/29/2021	09/29/2021	09/29/2021	09/29/2021	09/28/2021	09/28/2021	09/27/2021	09/28/2021	09/28/2021	09/29/2021	09/29/2021	09/29/2021	09/29/2021	09/29/2021
						Sample Depth	0-2	7-9	10-12	0-2	5-7	9-11	5.5-7.5	5.5-7.5	6-8	0-2	9-11	6-8	9-11	7.5-9.5	7.5-9.5	7-9
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Petroleum Hydrocarbons																						
Total Petroleum Hydrocarbons	TPH	NS	NS	NS	NS	UNKNOWN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides																						
4,4'-DDD	72-54-8	**0.0033**	14	13	92	mg/kg	**0.0252 D**	<0.00379 U	<0.00273 U	<0.00195 U	<0.00191 U	<0.00276 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	72-55-9	**0.0033**	17	8.9	62	mg/kg	**0.0515 D**	<0.00379 U	<0.00273 U	<0.00195 U	<0.00191 U	<0.00276 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	50-29-3	**0.0033**	136	7.9	47	mg/kg	**0.12 D**	<0.00379 U	<0.00273 U	<0.00195 U	<0.00191 U	<0.00276 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	309-00-2	0.005	0.19	0.097	0.68	mg/kg	<0.0018 U	<0.00379 U	<0.00273 U	<0.00195 U	<0.00191 U	<0.00276 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	0.48	3.4	mg/kg	<0.0018 U	<0.00379 U	<0.00273 U	<0.00195 U	<0.00191 U	<0.00276 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alpha Chlordane	5103-71-9	0.094	2.9	4.2	24	mg/kg	<0.0018 U	<0.00379 U	<0.00273 U	<0.00195 U	<0.00191 U	<0.00276 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alpha Endosulfan	959-98-8	2.4	102	24	200	mg/kg	<0.0018 U	<0.00379 U	<0.00273 U	<0.00195 U	<0.00191 U	<0.00276 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	0.36	3	mg/kg	<0.0018 U	<0.00379 U	<0.00273 U	<0.00195 U	<0.00191 U	<0.00276 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beta Endosulfan	33213-65-9	2.4	102	24	200	mg/kg	<0.0018 U	<0.00379 U	<0.00273 U	<0.00195 U	<0.00191 U	<0.00276 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	NS	mg/kg	<0.0359 U	<0.0757 U	<0.0546 U	<0.039 U	<0.0383 U	<0.0552 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	100	500	mg/kg	<0.0018 U	<0.00379 U	<0.00273 U	<0.00195 U	<0.00191 U	<0.00276 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	60-57-1	0.005	0.1	0.2	1.4	mg/kg	<0.0018 U	<0.00379 U	<0.00273 U	<0.00195 U	<0.00191 U	<0.00276 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan Sulfate	1031-07-8	2.4	1000	24	200	mg/kg	<0.0018 U	<0.00379 U	<0.00273 U	<0.00195 U	<0.00191 U	<0.00276 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	72-20-8	0.014	0.06	11	89	mg/kg	<0.0018 U	<0.00379 U	<0.00273 U	<0.00195 U	<0.00191 U	<0.00276 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin Aldehyde	7421-93-4	NS	NS	NS	NS	mg/kg	<0.0018 U	<0.00379 U	<0.00273 U	<0.00195 U	<0.00191 U	<0.00276 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin Ketone	53494-70-5	NS	NS	NS	NS	mg/kg	<0.0018 U	<0.00379 U	<0.00273 U	<0.00195 U	<0.00191 U	<0.00276 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	1.3	9.2	mg/kg	<0.0018 U	<0.00379 U	<0.00273 U	<0.00195 U	<0.00191 U	<0.00276 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	5566-34-7	NS	NS	NS	NS	mg/kg	<0.0018 U	<0.00379 U	<0.00273 U	<0.00195 U	<0.00191 U	<0.00276 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	76-44-8	0.042	0.38	2.1	15	mg/kg	<0.0018 U	<0.00379 U	<0.00273 U	<0.00195 U	<0.00191 U	<0.00276 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor Epoxide	1024-57-3	NS	NS	NS	NS	mg/kg	<0.0018 U	<0.00379 U	<0.00273 U	<0.00195 U	<0.00191 U	<0.00276 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	72-43-5	NS	NS	NS	NS	mg/kg	<0.0018 U	<0.00379 U	<0.00273 U	<0.00195 U	<0.00191 U	<0.00276 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toxaphene	8001-35-2	NS	NS	NS	NS	mg/kg	<0.18 U	<0.379 U	<0.273 U	<0.195 U	<0.191 U	<0.276 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Herbicides																						
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	NS	mg/kg	<0.0216 U	<0.0456 U	<0.0328 U	<0.0234 U	<0.0231 U	<0.0334 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	NS	mg/kg	<0.0216 U	<0.0456 U	<0.0328 U	<0.0234 U	<0.0231 U	<0.0334 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	100	500	mg/kg	<0.0216 U	<0.0456 U	<0.0328 U	<0.0234 U	<0.0231 U	<0.0334 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Polychlorinated Biphenyl																						
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	NS	mg/kg	<0.0181 U	<0.0382 U	<0.0276 U	<0.0197 U	<0.0193 U	<0.0279 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	NS	mg/kg	<0.0181 U	<0.0382 U	<0.0276 U	<0.0197 U	<0.0193 U	<0.0279 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	NS	mg/kg	<0.0181 U	<0.0382 U	<0.0276 U	<0.0197 U	<0.0193 U	<0.0279 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	NS	mg/kg	<0.0181 U	<0.0382 U	<0.0276 U	<0.0197 U	<0.0193 U	<0.0279 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	NS	mg/kg	<0.0181 U	<0.0382 U	<0.0276 U	<0.0197 U	<0.0193 U	<0.0279 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	NS	mg/kg	<0.0181 U	<0.0382 U	<0.0276 U	<0.0197 U	<0.0193 U	<0.0279 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	NS	mg/kg	0.264 J	<0.0382 U	<0.0276 U	<0.0197 U	<0.0193 U	<0.0279 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	1336-36-3	**0.1**	3.2	1	1	mg/kg	**0.264**	<0.0382 U	<0.0276 U	<0.0197 U	<0.0193 U	<0.0279 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																						
Aluminum	7429-90-5	NS	NS	NS	NS	mg/kg	7,850	12,800	22,700	10,800	4,550	20,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	7440-36-0	NS	NS	NS	NS	mg/kg	5.03	7.23	7.19	3.18	3.31	6.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	7440-38-2	**13**	16	16	16	mg/kg	7.23	**23.7**	4.08	4.03	<1.75 U	5.41	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	7440-39-3	**350**	820	400	400	mg/kg	**708**	**702**	89	69.3	39.3	76.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	7440-41-7	7.2	47	72	590	mg/kg	<0.055 U	<0.115 U	<0.083 U	<0.059 U	<0.058 U	<0.084 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	7440-43-9	**2.5**	7.5	4.3	9.3	mg/kg	**10.2**	**4.59**	0.681	<0.357 U	<0.35 U	0.722	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	7440-70-2	NS	NS	NS	NS	mg/kg	42,300	35,100	6,110	1,790	1,650	15,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium, Hexavalent	18540-29-9	1	19	110	400	mg/kg	<0.548 U	<1.15 UJ	<0.833 U	<0.594 U	<0.584 U	<0.842 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium, Total	7440-47-3	NS	NS	NS	NS	mg/kg	34.5	49.2	46.4	18.4	14.5	42.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium, Trivalent	16065-83-1	**30**	NS	180	1500	mg/kg	**34.5**	**49.2**	**46.4**	18.4	14.5	**42.8**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	7440-48-4	NS	NS	NS	NS	mg/kg	12.1	18.7	19.3	7.25	6.47	14.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	7440-50-8	**50**	1720	270	270	mg/kg	**286**	**523**	31.3	**117**	32.5	**76.1**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	57-12-5	27	40	27	27	mg/kg	<0.548 U	<1.15 UJ	<0.833 U	<0.594 U	<0.584 U	<0.842 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	7439-89-6	NS	NS	NS	NS	mg/kg	31,900	60,400	43,200	15,800	20,500	38,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	7439-92-1	**63**	450	400	1000	mg/kg	**552**	**1,850**	**67.2**	**101**	13.5	55.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	7439-95-4	NS	NS	NS	NS	mg/kg	18,400	2,060	10,300	2,290	1,750	9,640	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	7439-96-5	1600	2000	2000	10000	mg/kg	316	412	873	484	308	1,020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	7439-97-6	**0.18**	0.73	0.81	2.8	mg/kg	**0.5**	**8.47**	0.0787	**0.314**	<0.035 U	<0.0505 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	7440-02-0	**30**	130	310	310	mg/kg	**61.5**	**48.7**	**38**	13.2	11.7	**31.4**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	7440-09-7	NS	NS	NS	NS	mg/kg	1,460	1,510	5,670	889	1,620	5,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	7782-49-2	3.9	4	180	1500	mg/kg	<2.74 U	<5.77 UJ	<4.17 U	<2.97 U	<2.92 U	<4.21 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	7440-22-4	2	8.3	180	1500	mg/kg	<0.548 U	1.95	<0.833 U	<0.594 U	<0.584 U	<0.842 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	7440-23-5	NS	NS	NS	NS	mg/kg	468	816	1,990	87.6	179	2,760	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	7440-28-0	NS	NS	NS	NS	mg/kg	<2.74 U	<5.77 U	<4.17 U	<2.97 U	<2.92 U	<4.21 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	7440-62-2	NS	NS	NS	NS	mg/kg	32.2	53.7	61.7	27	23	54.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	7440-66-6	**109**	2480	10000	10000	mg/kg	**2,260**	**1,590**	**140**	90.2	62.6	**165**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
General Chemistry																						
Solids, Percent	SOLID	NS	NS	NS	NS	Percent	91.3	43.3	60	84.1	85.7	59.4	83.2	74	84.8	91.8	77.3	80.3	60.7	74.5	82.5	77.8
Perfluorooctanoic acids																						
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	NS	NS	NS	mg/kg	<0.000248 U	<0.00052 U	<0.000408 U	0.000354	<0.000259 U	<0.000369 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOSA	2355-31-9	NS	NS	NS	NS	mg/kg	<0.000248 U	<0.00052 U	<0.000408 U	<0.000278 U	<0.000259 U	<0.000369 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	NS	mg/kg	<0.000248 U	<0.00052 U	<0.000408 U	<0.000278 U	<0.000259 U	<0.000369 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	NS	mg/kg	0.000258	<0.00052 U	<0.000408 U	0.000347	<0.000259 U	0.00267	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	NS	mg/kg	<0.000248 U	<0.00052 U	<0.000408 U	<0.000278 U	<0.000259 U	<0.000369 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	NS	mg/kg	<0.000248 U	<0.00052 U	<0.000408 U	<0.000278 U	<0.000259 U	<0.000369 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	NS	mg/kg	<0.000248 U	<0.00052 U	<0.000408 U	<0.000278 U	<0.000259 U	<0.000369 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	NS	mg/kg	<0.000248 U	<0.00052 U	<0.000408 U	<0.000278 U	<0.000259 U	<0.000369 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	NS	mg/kg	<0.000248 U	<0.00052 U	<0.000408 U	<0.000278 U	<0.000259 U	<0.000369 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	NS	mg/kg	<0.000248 U	<0.00052 U	<0.000408 U	<0.000278 U	<0.000259 U	<0.000369 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	NS	mg/kg	0.000375	<0.00052 U	<0.000408 U	<0.000278 U	<0.000259 U	<0.000369 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	NS	mg/kg	<0.000248 U	<0.00052 U	<0.000408 U	<0.000278 U	<0.000259 U	<0.000369 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	NS	mg/kg	<0.000248 U	<0.00052 U	<0.000408 U	<0.000278 U	<0.000259 U	<0.000369 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.044	0.44	mg/kg	<0.000248 U	**0.000993**	<0.000408 U	**0.00211**	0.000733	<0.000369 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic Acid (PFOA)	335-67-1	**0.00066**	0.0011	0.033	0.5	mg/kg	<0.000248 U	<0.00052 U	<0.000408 U	<0.000278 U	0.000425	**0.000759**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	NS	mg/kg	0.000695	<0.00052 U	<0.000408 U	<0.000278 U	<0.000259 U	<0.000369 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	NS	mg/kg	<0.000248 U	<0.00052 U	<0.000408 U	<0.000278 U	<0.000259 U	<0.000369 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	NS	mg/kg	<0.000248 U	<0.00052 U	<0.000408 U	<0.000278 U	<0.000259 U	<0.000369 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	NS	mg/kg	<0.000248 U	<0.00052 U	<0.000408 U	<0.000278 U	<0.000259 U	<0.000369 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FTS	39108-34-4	NS	NS	NS	NS	mg/kg	<0.000248 U	<0.00052 U	<0.000408 U	<0.000278 U	<0.000259 U	<0.000369 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FTS	27619-97-2	NS	NS	NS	NS	mg/kg	<0.000248 U	<0.00052 U	<0.000408 U	<0.000278 U	<0.000259 U	<0.000369 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes provided on Page 10.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3E
Remedial Investigation Report
Soil Sample Analytical Results - Block 1822 (I)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	I-SB101	I-SB101	I-SB101	I-SB102	I-SB102	I-SB102	I-SB103	I-SB103	I-SB103	I-SB104	I-SB104	I-SB104
						Sample Name	I-SB101_0-2	I-SB101_5.7	I-SB101_10.5-12	I-SB102_0-2	I-SB102_7-9	I-SB102_10-12	I-SB103_0-2	I-SB103_6-8	I-SB103_9-11	I-SB104_0-2	I-SB104_5.5-7.5	I-SB104_9-11
						Sample Date	09/27/2021	09/27/2021	09/27/2021	09/28/2021	09/28/2021	09/28/2021	09/27/2021	09/27/2021	09/27/2021	09/28/2021	09/28/2021	09/28/2021
						Sample Depth	0-2	5.7-12	10.5-12	0-2	7-9	10-12	0-2	6-8	9-11	0-2	5.5-7.5	9-11
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																		
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	NS	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	500	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	NS	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	NS	NS	NS	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	NS	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
1,1-Dichloroethane	75-34-3	0.27	0.27	26	240	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
1,1-Dichloroethene	75-35-4	0.33	0.33	100	500	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	NS	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	NS	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	NS	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
1,2,4-Trimethylbenzene	95-63-6	**3.6**	3.6	52	190	mg/kg	<0.0022 U	**41 D**	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	0.0038 J	<0.0031 U	0.0023 J	<0.0023 U	<0.0041 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	NS	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	NS	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	500	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 UJ	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 UJ	<0.0023 U	<0.0041 U
1,2-Dichloroethane	107-06-2	0.02	0.02	3.1	30	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	NS	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	**8.4**	8.4	52	190	mg/kg	<0.0022 U	**9.1 D**	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	280	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 UJ	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 UJ	<0.0023 U	<0.0041 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	130	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 UJ	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 UJ	<0.0023 U	<0.0041 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.045 U	<25 U	<0.059 U	<0.047 U	<0.045 U	<0.085 U	<4.5 U	<0.055 U	<0.061 U	<0.043 U	<0.046 U	<0.083 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	NS	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
Acetone	67-64-1	**0.05**	0.05	100	500	mg/kg	<0.0045 U	<2.5 U	0.034	**0.064**	0.014	**0.054**	<0.45 U	**0.057**	0.024	0.041	0.033	**0.059**
Acrolein	107-02-8	NS	NS	NS	NS	mg/kg	<0.0045 U	<2.5 U	<0.0059 U	<0.0047 U	<0.0045 U	<0.0085 U	<0.45 U	<0.0055 U	<0.0061 U	<0.0043 U	<0.0046 U	<0.0083 U
Acrylonitrile	107-13-1	NS	NS	NS	NS	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
Benzene	71-43-2	**0.06**	0.06	4.8	44	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
Bromochloromethane	74-97-5	NS	NS	NS	NS	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
Bromodichloromethane	75-27-4	NS	NS	NS	NS	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
Bromoform	75-25-2	NS	NS	NS	NS	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 UJ	<0.0023 UJ	<0.0042 UJ	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 UJ	<0.0023 UJ	<0.0041 UJ
Bromomethane	74-83-9	NS	NS	NS	NS	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
Carbon Disulfide	75-15-0	NS	NS	NS	NS	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	0.0079 J	<0.22 U	0.012	0.0042 J	<0.0022 U	<0.0023 U	<0.0041 U
Carbon Tetrachloride	56-23-5	0.76	0.76	2.4	22	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
Chlorobenzene	108-90-7	1.1	1.1	100	500	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
Chloroethane	75-00-3	NS	NS	NS	NS	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
Chloroform	67-66-3	0.37	0.37	49	350	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
Chloromethane	74-87-3	NS	NS	NS	NS	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	100	500	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	NS	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
Cyclohexane	110-82-7	NS	NS	NS	NS	mg/kg	<0.0022 U	21 D	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	1.2 D	0.016	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
Dibromochloromethane	124-48-1	NS	NS	NS	NS	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
Dibromomethane	74-95-3	NS	NS	NS	NS	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	NS	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
Ethylbenzene	100-41-4	**1**	1	41	390	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 UJ	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 UJ	<0.0023 U	<0.0041 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	NS	mg/kg	<0.0022 U	3 D	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	0.012	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
M,P-Xylene	179601-23-1	NS	NS	NS	NS	mg/kg	<0.0045 U	<2.5 U	<0.0059 U	<0.0047 U	<0.0045 U	<0.0085 U	<0.45 U	<0.0055 U	<0.0061 U	<0.0043 U	<0.0046 U	<0.0083 U
Methyl Acetate	79-20-9	NS	NS	NS	NS	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	0.12	0.12	100	500	mg/kg	<0.0022 U	<1.2 U	0.0093	0.015	<0.0023 U	0.0085	<0.22 U	0.012	0.0063	0.0083	0.0061	0.011
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	NS	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
Methylcyclohexane	108-87-2	NS	NS	NS	NS	mg/kg	<0.0022 U	7.1 D	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	1.3 D	0.021	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
Methylene Chloride	75-09-2	0.05	0.05	100	500	mg/kg	<0.0089 U	<2.5 U	<0.0059 U	<0.0047 U	<0.0045 U	<0.0085 U	<0.45 U	<0.0055 U	<0.0061 U	<0.0043 U	<0.0046 U	<0.0083 U
n-Butylbenzene	104-51-8	**12**	12	100	500	mg/kg	<0.0022 U	3.5 D	<0.0029 U	<0.0024 U	<0.0023 UJ	<0.0042 UJ	<0.22 U	0.032	<0.0031 U	<0.0022 U	<0.0023 UJ	<0.0041 UJ
n-Propylbenzene	103-65-1	**3.9**	3.9	100	500	mg/kg	<0.0022 U	**12 D**	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	0.62 D	0.0029 J	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	NS	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	NS	NS	mg/kg	<0.0022 U	1.9 JD	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	0.015	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
Sec-Butylbenzene	135-98-8	**11**	11	100	500	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	0.016	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
Styrene	100-42-5	NS	NS	NS	NS	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
T-Butylbenzene	98-06-6	5.9	5.9	100	500	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
Tert-Butyl Alcohol	75-65-0	NS	NS	NS	NS	mg/kg	<0.0022 UJ	<1.2 U	<0.0029 UJ	0.01	<0.0023 UJ	<0.0042 UJ	<0.22 U	0.0095 J	<0.0031 UJ	<0.0022 U	<0.0023 UJ	<0.0041 UJ
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	100	500	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	0.0062 J	<0.22 U	0.0029 J	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	19	150	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 UJ	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 UJ	<0.0023 U	<0.0041 U
Toluene	108-88-3	**0.7**	0.7	100	500	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
Total Xylenes	1330-20-7	**0.26**	1.6	100	500	mg/kg	<0.0067 U	<3.7 U	<0.0088 U	<0.0071 U	<0.0068 U	<0.013 U	<0.67 U	<0.0082 U	<0.0092 U	<0.0065 U	<0.0069 U	<0.012 U
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	100	500	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	NS	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
Trichloroethene (TCE)	79-01-6	0.47	0.47	21	200	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	NS	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U
Vinyl Chloride	75-01-4	0.02	0.02	0.9	13	mg/kg	<0.0022 U	<1.2 U	<0.0029 U	<0.0024 U	<0.0023 U	<0.0042 U	<0.22 U	<0.0027 U	<0.0031 U	<0.0022 U	<0.0023 U	<0.0041 U

Notes provided on Page 10.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3E
Remedial Investigation Report
Soil Sample Analytical Results - Block 1822 (I)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	I-SB101	I-SB101	I-SB101	I-SB102	I-SB102	I-SB102	I-SB103	I-SB103	I-SB103	I-SB104	I-SB104	I-SB104
						Sample Name	I-SB101_0-2	I-SB101_5.7	I-SB101_10.5-12	I-SB102_0-2	I-SB102_7-9	I-SB102_10-12	I-SB103_0-2	I-SB103_6-8	I-SB103_9-11	I-SB104_0-2	I-SB104_5.5-7.5	I-SB104_9-11
						Sample Date	09/27/2021	09/27/2021	09/27/2021	09/28/2021	09/28/2021	09/28/2021	09/27/2021	09/27/2021	09/27/2021	09/28/2021	09/28/2021	09/28/2021
						Sample Depth	0-2	5.7-12	10.5-12	0-2	7-9	10-12	0-2	6-8	9-11	0-2	5.5-7.5	9-11
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																		
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	NS	mg/kg	<0.0868 U	<0.0904 U	<0.111 U	<0.0897 U	<0.101 U	<0.14 U	<0.0861 U	<0.103 U	<0.123 U	<0.0961 U	<0.0964 U	<0.144 U
1,2-Diphenylhydrazine	122-66-7	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 U	<0.0616 U	<0.0481 U	<0.0483 U	<0.0721 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.0189 U	<0.0194 U	<0.0196 U	<0.019 U	<0.0196 U	<0.0189 U	<0.0187 U	<0.0194 U	<0.019 U	<0.0192 U	<0.0189 U	<0.0189 U
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	NS	mg/kg	<0.0868 U	<0.0904 U	<0.111 U	<0.0897 U	<0.101 U	<0.14 U	<0.0861 U	<0.103 UJ	<0.123 U	<0.0961 UJ	<0.0964 U	<0.144 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 UJ	<0.0616 U	<0.0481 UJ	<0.0483 U	<0.0721 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 UJ	<0.0616 U	<0.0481 UJ	<0.0483 U	<0.0721 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 UJ	<0.0616 U	<0.0481 UJ	<0.0483 U	<0.0721 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 UJ	<0.0616 U	<0.0481 UJ	<0.0483 U	<0.0721 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	NS	mg/kg	<0.0868 U	<0.0904 U	<0.111 U	<0.0897 U	<0.101 U	<0.14 U	<0.0861 U	<0.103 UJ	<0.123 U	<0.0961 UJ	<0.0964 U	<0.144 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 U	<0.0616 U	<0.0481 U	<0.0483 U	<0.0721 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 U	<0.0616 U	<0.0481 U	<0.0483 U	<0.0721 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 U	<0.0616 U	<0.0481 U	<0.0483 U	<0.0721 U
2-Chlorophenol	95-57-8	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 UJ	<0.0616 U	<0.0481 UJ	<0.0483 U	<0.0721 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	NS	mg/kg	<0.0435 U	0.454 D	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	0.274 D	0.0701 JD	<0.0616 U	0.19 D	0.108 D	<0.0721 U
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	500	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 UJ	<0.0616 U	<0.0481 UJ	<0.0483 U	<0.0721 U
2-Nitroaniline	88-74-4	NS	NS	NS	NS	mg/kg	<0.0868 U	<0.0904 U	<0.111 U	<0.0897 U	<0.101 U	<0.14 U	<0.0861 U	<0.103 U	<0.123 U	<0.0961 U	<0.0964 U	<0.144 U
2-Nitrophenol	88-75-5	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 UJ	<0.0616 U	<0.0481 UJ	<0.0483 U	<0.0721 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	0.33	0.33	100	500	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 UJ	<0.0616 U	<0.0481 UJ	<0.0483 U	<0.0721 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 U	<0.0616 U	<0.0481 U	<0.0483 U	<0.0721 U
3-Nitroaniline	99-09-2	NS	NS	NS	NS	mg/kg	<0.0868 U	<0.0904 U	<0.111 U	<0.0897 U	<0.101 U	<0.14 U	<0.0861 U	<0.103 U	<0.123 U	<0.0961 U	<0.0964 U	<0.144 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	NS	mg/kg	<0.0868 U	<0.0904 U	<0.111 U	<0.0897 U	<0.101 U	<0.14 U	<0.0861 U	<0.103 UJ	<0.123 U	<0.0961 UJ	<0.0964 U	<0.144 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 U	<0.0616 U	<0.0481 U	<0.0483 U	<0.0721 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 UJ	<0.0616 U	<0.0481 UJ	<0.0483 U	<0.0721 U
4-Chloroaniline	106-47-8	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 U	<0.0616 U	<0.0481 U	<0.0483 U	<0.0721 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 U	<0.0616 U	<0.0481 U	<0.0483 U	<0.0721 U
4-Nitroaniline	100-01-6	NS	NS	NS	NS	mg/kg	<0.0868 U	<0.0904 U	<0.111 U	<0.0897 U	<0.101 U	<0.14 U	<0.0861 U	<0.103 U	<0.123 U	<0.0961 U	<0.0964 U	<0.144 U
4-Nitrophenol	100-02-7	NS	NS	NS	NS	mg/kg	<0.0868 U	<0.0904 U	<0.111 U	<0.0897 U	<0.101 U	<0.14 U	<0.0861 U	<0.103 UJ	<0.123 U	<0.0961 UJ	<0.0964 U	<0.144 U
Acenaphthene	83-32-9	20	98	100	500	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 U	<0.0616 U	<0.0481 U	0.163 D	<0.0721 U
Acenaphthylene	208-96-8	100	107	100	500	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	0.0825 JD	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 U	<0.0616 U	<0.0481 U	0.119 D	<0.0721 U
Acetophenone	98-86-2	NS	NS	NS	NS	mg/kg	<0.0435 U	0.496 J	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 U	<0.0616 U	<0.0481 U	<0.0483 U	<0.0721 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	NS	NS	NS	mg/kg	<0.174 U	<0.181 U	<0.222 U	<0.18 U	<0.202 U	<0.281 U	<0.172 U	<0.207 U	<0.246 U	<0.192 U	<0.193 U	<0.288 U
Anthracene	120-12-7	100	1000	100	500	mg/kg	<0.0435 U	0.0665 JD	<0.0556 U	0.0982 D	<0.0506 U	<0.0702 U	0.0558 JD	0.0792 JD	<0.0616 U	<0.0481 U	0.605 D	<0.0721 U
Atrazine	1912-24-9	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 U	<0.0616 U	<0.0481 U	<0.0483 U	<0.0721 U
Benzaldehyde	100-52-7	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 U	<0.0616 U	<0.0481 U	<0.0483 U	<0.0721 U
Benzidine	92-87-5	NS	NS	NS	NS	mg/kg	<0.174 U	<0.181 U	<0.222 U	<0.18 U	<0.202 U	<0.281 U	<0.172 U	<0.207 U	<0.246 U	<0.192 U	<0.193 U	<0.288 U
Benzo(a)anthracene	56-55-3	**1**	1	1	5.6	mg/kg	0.0659 JD	0.187 D	<0.0556 U	0.217 D	<0.0506 U	<0.0702 U	0.0764 JD	0.298 D	<0.0616 U	0.0914 JD	**1.41 D**	<0.0721 U
Benzo(a)pyrene	50-32-8	**1**	22	1	1	mg/kg	0.0749 JD	0.27 D	<0.0556 U	0.334 D	<0.0506 U	<0.0702 U	0.064 JD	0.221 D	<0.0616 U	0.17 D	**1.84 D**	<0.0721 U
Benzo(b)fluoranthene	205-99-2	**1**	1.7	1	5.6	mg/kg	0.061 JD	0.23 D	<0.0556 U	0.593 D	<0.0506 U	<0.0702 U	0.0743 JD	0.205 D	<0.0616 U	0.149 D	**1.21 D**	<0.0721 U
Benzo(g,h,i)Perylene	191-24-2	100	1000	100	500	mg/kg	0.0638 JD	0.168 D	<0.0556 U	0.156 D	<0.0506 U	<0.0702 U	0.0523 JD	0.172 D	<0.0616 U	0.105 D	1.04 D	<0.0721 U
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	3.9	56	mg/kg	0.061 JD	0.179 D	<0.0556 U	0.34 D	<0.0506 U	<0.0702 U	<0.0432 U	0.143 D	<0.0616 U	0.123 D	**0.927 D**	<0.0721 U
Benzoic Acid	65-85-0	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 U	<0.0616 U	<0.0481 U	<0.0483 U	<0.0721 U
Benzyl Alcohol	100-51-6	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 U	<0.0616 U	<0.0481 U	<0.0483 U	<0.0721 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 U	<0.0616 U	<0.0481 U	<0.0483 U	<0.0721 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 U	<0.0616 U	<0.0481 U	<0.0483 U	<0.0721 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 U	<0.0616 U	<0.0481 U	<0.0483 U	<0.0721 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 U	<0.0616 U	<0.0481 U	<0.0483 U	<0.0721 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 U	<0.0616 U	<0.0481 U	<0.0483 U	<0.0721 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	NS	mg/kg	0.077 JD	0.131 D	<0.0556 U	0.172 D	<0.0506 U	<0.0702 U	0.339 D	0.327 D	<0.0616 U	0.597 D	<0.0483 U	<0.0721 U
Caprolactam	105-60-2	NS	NS	NS	NS	mg/kg	<0.0868 U	<0.0904 U	<0.111 U	<0.0897 U	<0.101 U	<0.14 U	<0.0861 U	<0.103 U	<0.123 U	<0.0961 U	<0.0964 U	<0.144 U
Carbazole	86-74-8	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 U	<0.0616 U	<0.0481 U	0.102 D	<0.0721 U
Chrysene	218-01-9	**1**	1	3.9	56	mg/kg	0.0624 JD	0.186 D	<0.0556 U	0.373 D	<0.0506 U	<0.0702 U	0.0902 D	0.261 D	<0.0616 U	0.112 D	**1.26 D**	<0.0721 U
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.33	0.56	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	0.0739 JD	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 U	<0.0616 U	<0.0481 U	0.259 D	<0.0721 U
Dibenzofuran	132-64-9	7	210	59	350	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 U	<0.0616 U	<0.0481 U	0.0878 JD	<0.0721 U
Dibutyl phthalate	84-74-2	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	0.0929 D	<0.0517 U	<0.0616 U	<0.0481 U	<0.0483 U	<0.0721 U
Diethyl phthalate	84-66-2	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 U	<0.0616 U	<0.0481 U	<0.0483 U	<0.0721 U
Dimethyl phthalate	131-11-3	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 U	<0.0616 U	<0.0481 U	<0.0483 U	<0.0721 U
Dioctyl phthalate	117-84-0	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 U	<0.0616 U	<0.0481 U	<0.0483 U	<0.0721 U
Diphenylamine	122-39-4	NS	NS	NS	NS	mg/kg	<0.0868 U	<0.0904 U	<0.111 U	<0.0897 U	<0.101 U	<0.14 U	<0.0861 U	<0.103 U	<0.123 U	<0.0961 U	<0.0964 U	<0.144 U
Fluoranthene	206-44-0	100	1000	100	500	mg/kg	0.0978 D	0.274 D	<0.0556 U	0.381 D	<0.0506 U	<0.0702 U	0.199 D	0.445 D	<0.0616 U	0.128 D	2.25 D	<0.0721 U
Fluorene	86-73-7	30	386	100	500	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	0.0888 D	0.0709 JD	<0.0616 U	<0.0481 U	0.242 D	<0.0721 U
Hexachlorobenzene	118-74-1	0.33	3.2	1.2	6	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 U	<0.0616 U	<0.0481 U	<0.0483 U	<0.0721 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 U	<0.0616 U	<0.0481 U	<0.0483 U	<0.0721 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 U	<0.0616 U	<0.0481 U	<0.0483 U	<0.0721 U
Hexachloroethane	67-72-1	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 U	<0.0616 U	<0.0481 U	<0.0483 U	<0.0721 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	0.5	5.6	mg/kg	0.0485 JD	0.194 D	<0.0556 U	0.242 D	<0.0506 U	<0.0702 U	0.0441 JD	0.211 D	<0.0616 U	0.101 D	**1.23 D**	<0.0721 U
Isophorone	78-59-1	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 U	<0.0616 U	<0.0481 U	<0.0483 U	<0.0721 U
Naphthalene	91-20-3	12	12	100	500	mg/kg	<0.0435 U	0.29 D	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	0.18 D	0.0965 JD	<0.0616 U	0.221 D	0.189 D	<0.0721 U
Nitrobenzene	98-95-3	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 U	<0.0616 U	<0.0481 U	<0.0483 U	<0.0721 U
n-Nitrosodimethylamine	62-75-9	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 U	<0.0616 U	<0.0481 U	<0.0483 U	<0.0721 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 U	<0.0616 U	<0.0481 U	<0.0483 U	<0.0721 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	NS	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 U	<0.0616 U	<0.0481 U	<0.0483 U	<0.0721 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	6.7	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 UJ	<0.0616 U	<0.0481 UJ	<0.0483 U	<0.0721 U
Phenanthrene	85-01-8	100	1000	100	500	mg/kg	<0.0435 U	0.22 D	<0.0556 U	0.0459 JD	<0.0506 U	<0.0702 U	0.326 D	0.335 D	<0.0616 U	0.0745 JD	2.04 D	<0.0721 U
Phenol	108-95-2	0.33	0.33	100	500	mg/kg	<0.0435 U	<0.0453 U	<0.0556 U	<0.045 U	<0.0506 U	<0.0702 U	<0.0432 U	<0.0517 UJ	<0.0616 U	<0.0481 UJ	<0.0483 U	<0.0721 U
Pyrene	129-00-0	100	1000	100	500	mg/kg	0.101 D	0.298 D	<0.0556 U	1.02 D	<0.0506 U	<0.0702 U	0.22 D	0.523 D	<0.0616 U	0.207 D	3.08 D	<0.0721 U
Pyridine	110-86-1	NS	NS	NS	NS	mg/kg	<0.174 U	<0.181 U	<0.222 U	<0.18 U	<0.202 U	<0.281 U	<0.172 U	<0.207 U	<0.246 U	<0.192 U	<0.193 U	<0.288 U

Notes provided on Page 10.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3E
Remedial Investigation Report
Soil Sample Analytical Results - Block 1822 (I)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	I-SB101	I-SB101	I-SB101	I-SB102	I-SB102	I-SB102	I-SB103	I-SB103	I-SB103	I-SB104	I-SB104	I-SB104
						Sample Name	I-SB101_0-2	I-SB101_5.7	I-SB101_10.5-12	I-SB102_0-2	I-SB102_7-9	I-SB102_10-12	I-SB103_0-2	I-SB103_6-8	I-SB103_9-11	I-SB104_0-2	I-SB104_5.5-7.5	I-SB104_9-11
						Sample Date	09/27/2021	09/27/2021	09/27/2021	09/28/2021	09/28/2021	09/28/2021	09/27/2021	09/27/2021	09/27/2021	09/28/2021	09/28/2021	09/28/2021
						Sample Depth	0-2	5.7-12	10.5-12	0-2	7-9	10-12	0-2	6-8	9-11	0-2	5.5-7.5	9-11
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Petroleum Hydrocarbons																		
Total Petroleum Hydrocarbons	TPH	NS	NS	NS	NS	UNKNOWN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides																		
4,4'-DDD	72-54-8	**0.0033**	14	13	92	mg/kg	<0.00173 U	<0.00182 U	<0.0022 U	<0.00176 U	<0.00203 U	<0.00278 U	**0.0133 D**	**0.0134 D**	<0.00246 U	**0.0279 D**	<0.00193 U	<0.0028 U
4,4'-DDE	72-55-9	**0.0033**	17	8.9	62	mg/kg	<0.00173 U	<0.00182 U	<0.0022 U	<0.00176 U	<0.00203 U	<0.00278 U	**0.00793 J**	<0.00201 U	<0.00246 U	<0.00192 U	<0.00193 U	<0.0028 U
4,4'-DDT	50-29-3	**0.0033**	136	7.9	47	mg/kg	<0.00173 U	<0.00182 U	<0.0022 U	<0.00176 U	<0.00203 U	<0.00278 U	**0.0232 D**	**0.00578 D**	<0.00246 U	**0.0209 D**	<0.00193 U	<0.0028 U
Aldrin	309-00-2	0.005	0.19	0.097	0.68	mg/kg	<0.00173 U	<0.00182 U	<0.0022 U	<0.00176 U	<0.00203 U	<0.00278 U	<0.0017 U	<0.00201 U	<0.00246 U	<0.00192 U	<0.00193 U	<0.0028 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	0.48	3.4	mg/kg	<0.00173 U	<0.00182 U	<0.0022 U	<0.00176 U	<0.00203 U	<0.00278 U	<0.0017 U	<0.00201 U	<0.00246 U	<0.00192 U	<0.00193 U	<0.0028 U
Alpha Chlordane	5103-71-9	0.094	2.9	4.2	24	mg/kg	<0.00173 U	<0.00182 U	<0.0022 U	<0.00176 U	<0.00203 U	<0.00278 U	<0.0017 U	<0.00201 U	<0.00246 U	<0.00192 U	<0.00193 U	<0.0028 U
Alpha Endosulfan	959-98-8	2.4	102	24	200	mg/kg	<0.00173 U	<0.00182 U	<0.0022 U	<0.00176 U	<0.00203 U	<0.00278 U	<0.0017 U	<0.00201 U	<0.00246 U	<0.00192 U	<0.00193 U	<0.0028 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	0.36	3	mg/kg	<0.00173 U	<0.00182 U	<0.0022 U	<0.00176 U	<0.00203 U	<0.00278 U	<0.0017 U	<0.00201 U	<0.00246 U	<0.00192 U	<0.00193 U	<0.0028 U
Beta Endosulfan	33213-65-9	2.4	102	24	200	mg/kg	<0.00173 U	<0.00182 U	<0.0022 U	<0.00176 U	<0.00203 U	<0.00278 U	<0.0017 U	<0.00201 U	<0.00246 U	<0.00192 U	<0.00193 U	<0.0028 U
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	NS	mg/kg	<0.0346 U	<0.0364 U	<0.0439 U	<0.0353 U	<0.0406 U	<0.0556 U	<0.0341 U	<0.0402 U	<0.0493 U	<0.0384 U	<0.0385 U	<0.056 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	100	500	mg/kg	<0.00173 U	<0.00182 U	<0.0022 U	<0.00176 U	<0.00203 U	<0.00278 U	<0.0017 U	<0.00201 U	<0.00246 U	<0.00192 U	<0.00193 U	<0.0028 U
Dieldrin	60-57-1	0.005	0.1	0.2	1.4	mg/kg	<0.00173 U	<0.00182 U	<0.0022 U	<0.00176 U	<0.00203 U	<0.00278 U	<0.0017 U	<0.00201 U	<0.00246 U	<0.00192 U	<0.00193 U	<0.0028 U
Endosulfan Sulfate	1031-07-8	2.4	1000	24	200	mg/kg	<0.00173 U	<0.00182 U	<0.0022 U	<0.00176 U	<0.00203 U	<0.00278 U	<0.0017 U	<0.00201 U	<0.00246 U	<0.00192 U	<0.00193 U	<0.0028 U
Endrin	72-20-8	0.014	0.06	11	89	mg/kg	<0.00173 U	<0.00182 U	<0.0022 U	<0.00176 U	<0.00203 U	<0.00278 U	<0.0017 U	<0.00201 U	<0.00246 U	<0.00192 U	<0.00193 U	<0.0028 U
Endrin Aldehyde	7421-93-4	NS	NS	NS	NS	mg/kg	<0.00173 U	<0.00182 U	<0.0022 U	<0.00176 U	<0.00203 U	<0.00278 U	<0.0017 U	<0.00201 U	<0.00246 U	<0.00192 U	<0.00193 U	<0.0028 U
Endrin Ketone	53494-70-5	NS	NS	NS	NS	mg/kg	<0.00173 U	<0.00182 U	<0.0022 U	<0.00176 U	<0.00203 U	<0.00278 U	<0.0017 U	<0.00201 U	<0.00246 U	<0.00192 U	<0.00193 U	<0.0028 U
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	1.3	9.2	mg/kg	<0.00173 U	<0.00182 U	<0.0022 U	<0.00176 U	<0.00203 U	<0.00278 U	<0.0017 U	<0.00201 U	<0.00246 U	<0.00192 U	<0.00193 U	<0.0028 U
Gamma-Chlordane	5566-34-7	NS	NS	NS	NS	mg/kg	<0.00173 U	<0.00182 U	<0.0022 U	<0.00176 U	<0.00203 U	<0.00278 U	<0.0017 U	<0.00201 U	<0.00246 U	<0.00192 U	<0.00193 U	<0.0028 U
Heptachlor	76-44-8	0.042	0.38	2.1	15	mg/kg	<0.00173 U	<0.00182 U	<0.0022 U	<0.00176 U	<0.00203 U	<0.00278 U	<0.0017 U	<0.00201 U	<0.00246 U	<0.00192 U	<0.00193 U	<0.0028 U
Heptachlor Epoxide	1024-57-3	NS	NS	NS	NS	mg/kg	<0.00173 U	<0.00182 U	<0.0022 U	<0.00176 U	<0.00203 U	<0.00278 U	<0.0017 U	<0.00201 U	<0.00246 U	<0.00192 U	<0.00193 U	<0.0028 U
Methoxychlor	72-43-5	NS	NS	NS	NS	mg/kg	<0.00173 U	<0.00182 U	<0.0022 U	<0.00176 U	<0.00203 U	<0.00278 U	<0.0017 U	<0.00201 U	<0.00246 U	<0.00192 U	<0.00193 U	<0.0028 U
Toxaphene	8001-35-2	NS	NS	NS	NS	mg/kg	<0.173 U	<0.182 U	<0.22 U	<0.176 U	<0.203 U	<0.278 U	<0.17 U	<0.201 U	<0.246 U	<0.192 U	<0.193 U	<0.28 U
Herbicides																		
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	NS	mg/kg	<0.0176 U	<0.0185 U	<0.0263 U	<0.0215 U	<0.0241 U	<0.034 U	<0.0207 U	<0.0249 U	<0.0298 U	<0.0233 U	<0.0233 U	<0.0344 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	NS	mg/kg	<0.0176 U	<0.0185 U	<0.0263 U	<0.0215 U	<0.0241 U	<0.034 U	<0.0207 U	<0.0249 U	<0.0298 U	<0.0233 U	<0.0233 U	<0.0344 U
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	100	500	mg/kg	<0.0176 U	<0.0185 U	<0.0263 U	<0.0215 U	<0.0241 U	<0.034 U	<0.0207 U	<0.0249 U	<0.0298 U	<0.0233 U	<0.0233 U	<0.0344 U
Polychlorinated Biphenyl																		
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	NS	mg/kg	<0.0174 U	<0.0184 U	<0.0222 U	<0.0178 U	<0.0205 U	<0.0281 U	<0.0172 U	<0.0203 U	<0.0249 U	<0.0194 U	<0.0194 U	<0.0283 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	NS	mg/kg	<0.0174 U	<0.0184 U	<0.0222 U	<0.0178 U	<0.0205 U	<0.0281 U	<0.0172 U	<0.0203 U	<0.0249 U	<0.0194 U	<0.0194 U	<0.0283 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	NS	mg/kg	<0.0174 U	<0.0184 U	<0.0222 U	<0.0178 U	<0.0205 U	<0.0281 U	<0.0172 U	<0.0203 U	<0.0249 U	<0.0194 U	<0.0194 U	<0.0283 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	NS	mg/kg	<0.0174 U	<0.0184 U	<0.0222 U	<0.0178 U	<0.0205 U	<0.0281 U	<0.0172 U	<0.0203 U	<0.0249 U	<0.0194 U	<0.0194 U	<0.0283 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	NS	mg/kg	0.0395	0.0286	<0.0222 U	0.0435	<0.0205 U	<0.0281 U	0.818	0.331	<0.0249 U	0.172 J	<0.0194 U	<0.0283 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	NS	mg/kg	<0.0174 U	<0.0184 U	<0.0222 U	<0.0178 U	<0.0205 U	<0.0281 U	<0.0172 U	<0.0203 U	<0.0249 U	<0.0194 U	<0.0194 U	<0.0283 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	NS	mg/kg	<0.0174 U	<0.0184 U	<0.0222 U	<0.0178 U	<0.0205 U	<0.0281 U	0.1	0.0653	<0.0249 U	0.105	<0.0194 U	<0.0283 U
Total PCBs	1336-36-3	**0.1**	3.2	1	1	mg/kg	0.0395	0.0286	<0.0222 U	0.0435	<0.0205 U	<0.0281 U	**0.918**	**0.396**	<0.0249 U	**0.276**	<0.0194 U	<0.0283 U
Metals																		
Aluminum	7429-90-5	NS	NS	NS	NS	mg/kg	7,510	7,840	9,200	9,190	2,610	16,100	9,720	5,740	15,600	5,070	7,940	247
Antimony	7440-36-0	NS	NS	NS	NS	mg/kg	<2.66 U	2.88	<3.37 U	<2.72 U	<3.1 U	4.63	2.85	<3.12 U	4.12	9.06	6.03	<4.35 U
Arsenic	7440-38-2	**13**	16	16	16	mg/kg	<1.6 U	4.91	<2.02 U	<1.63 U	<1.86 U	5.31	2.43	7.73	4.36	<1.77 U	1.89	<2.61 U
Barium	7440-39-3	**350**	820	400	400	mg/kg	64	159	39.3	87.9	18	48.2	96.9	152	44.4	230	170	6.31
Beryllium	7440-41-7	7.2	47	72	590	mg/kg	<0.053 U	<0.056 U	<0.067 U	<0.054 U	<0.062 U	<0.086 U	<0.052 U	<0.062 U	<0.075 U	<0.059 U	<0.059 U	<0.087 U
Cadmium	7440-43-9	**2.5**	7.5	4.3	9.3	mg/kg	1.22	1	<0.405 U	1.05	<0.372 U	<0.516 U	1.13	1.11	0.494	**4.49**	1.39	<0.523 U
Calcium	7440-70-2	NS	NS	NS	NS	mg/kg	11,600	4,210	6,320	4,320	1,910	4,310	5,090	28,700	4,880	20,800	11,900	426
Chromium, Hexavalent	18540-29-9	1	19	110	400	mg/kg	<0.532 U	<0.558 U	<0.674 U	<0.545 U	<0.619 U	<0.86 U	<0.52 U	<0.625 U	<0.752 U	<0.591 U	<0.591 U	<0.871 U
Chromium, Total	7440-47-3	NS	NS	NS	NS	mg/kg	17.6	29.6	19.4	18.2	7.65	34.3	19.3	21.5	32.9	27.8	20.1	<0.871 U
Chromium, Trivalent	16065-83-1	**30**	NS	180	1500	mg/kg	17.6	29.6	19.4	18.2	7.65	**34.3**	19.3	21.5	**32.9**	27.8	20.1	<0.5 U
Cobalt	7440-48-4	NS	NS	NS	NS	mg/kg	5.82	6.54	7.94	5.88	3.12	12.5	6.99	5.03	12.2	5.71	7.08	<0.697 U
Copper	7440-50-8	**50**	1720	270	270	mg/kg	40.1	**80.1**	7.46	36.6	9.2	18.5	33.4	**131**	12.5	**81.9**	40.6	<3.48 U
Cyanide	57-12-5	27	40	27	27	mg/kg	<0.532 U	<0.558 U	<0.674 U	<0.545 U	<0.619 U	<0.86 U	<0.52 U	<0.625 U	<0.752 U	<0.591 U	<0.591 U	<0.871 U
Iron	7439-89-6	NS	NS	NS	NS	mg/kg	5,350	14,200	17,300 J	4,820	8,360	31,100	14,900 J	12,000	26,000	48,400	17,500	<43.5 U
Lead	7439-92-1	**63**	450	400	1000	mg/kg	**101**	**273**	4.76	**107**	8.79	25.6	**112**	**260**	9.83	**533**	**197**	7.58
Magnesium	7439-95-4	NS	NS	NS	NS	mg/kg	2,090	2,800	5,290	1,580	684	7,690	2,600	1,760	7,070	2,530	4,140	<8.71 U
Manganese	7439-96-5	1600	2000	2000	10000	mg/kg	264	214	728	231	77.9	880	338	165	1,030	595	353	<0.871 U
Mercury	7439-97-6	**0.18**	0.73	0.81	2.8	mg/kg	**0.44**	**1.61**	<0.0405 U	**0.284**	<0.0372 U	0.105	**0.448**	**0.781**	<0.0451 U	**0.186**	**0.576**	**0.268**
Nickel	7440-02-0	**30**	130	310	310	mg/kg	6.13	15.5	17	8.72	5.24	23.2	20.2	14.9	20	13.2	11.8	<1.74 U
Potassium	7440-09-7	NS	NS	NS	NS	mg/kg	436	918	2,560 J	393 B	440 B	3,610 B	821 J	981	3,370	675 B	883 B	<8.71 U
Selenium	7782-49-2	3.9	4	180	1500	mg/kg	<2.66 U	<2.79 U	<3.37 U	<2.72 U	<3.1 U	<4.3 U	<2.6 U	<3.12 U	<3.76 U	<2.96 U	<2.96 U	<4.35 U
Silver	7440-22-4	2	8.3	180	1500	mg/kg	<0.532 U	<0.558 U	<0.674 U	<0.545 U	<0.619 U	<0.86 U	<0.52 U	<0.625 U	<0.752 U	<0.591 U	<0.591 U	1.15
Sodium	7440-23-5	NS	NS	NS	NS	mg/kg	68.9	125	754	80	63.7	3,650	94.3	274	2,370	237	176	<87.1 U
Thallium	7440-28-0	NS	NS	NS	NS	mg/kg	<2.66 U	<2.79 U	<3.37 U	<2.72 U	<3.1 U	<4.3 U	<2.6 U	<3.12 U	<3.76 U	<2.96 U	<2.96 U	<4.35 U
Vanadium	7440-62-2	NS	NS	NS	NS	mg/kg	27.1	37	23.6	29.4	11.7	41.2	24.1	20.3	41	27.8	25.5	<1.74 U
Zinc	7440-66-6	**109**	2480	10000	10000	mg/kg	**118**	**221**	40	**131**	19.4	82.5	100	**393**	63.1	**677**	**184**	7.02
General Chemistry																		
Solids, Percent	SOLID	NS	NS	NS	NS	Percent	93.9	89.6	74.2	91.8	80.7	58.2	96.2	80	66.5	84.6	84.6	57.4
Perfluorooctanoic acids																		
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	NS	NS	NS	mg/kg	<0.000227 U	<0.000279 U	<0.000324 U	<0.000252 U	<0.000236 U	<0.000427 U	<0.000243 U	<0.000301 U	<0.000359 U	<0.000261 U	<0.00025 U	<0.000388 U
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOSA	2355-31-9	NS	NS	NS	NS	mg/kg	<0.000227 U	<0.000279 U	<0.000324 U	<0.000252 U	<0.000236 U	<0.000427 U	<0.000243 U	<0.000301 U	<0.000359 U	<0.000261 U	<0.00025 U	<0.000388 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	NS	mg/kg	<0.000227 U	<0.000279 U	<0.000324 U	<0.000252 U	<0.000236 U	<0.000427 U	<0.000243 U	<0.000301 U	<0.000359 U	<0.000261 U	<0.00025 U	<0.000388 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	NS	mg/kg	<0.000227 U	<0.000279 U	<0.000324 U	<0.000252 U	<0.000236 U	<0.000427 U	<0.000243 U	<0.000301 U	<0.000359 U	<0.000261 U	<0.00025 U	<0.000388 U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	NS	mg/kg	<0.000227 U	<0.000279 U	<0.000324 U	<0.000252 U	<0.000236 U	<0.000427 U	<0.000243 U	<0.000301 U	<0.000359 U	<0.000261 U	<0.00025 U	<0.000388 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	NS	mg/kg	<0.000227 U	<0.000279 U	<0.000324 U	<0.000252 U	<0.000236 U	<0.000427 U	<0.000243 U	<0.000301 U	<0.000359 U	<0.000261 U	<0.00025 U	<0.000388 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	NS	mg/kg	<0.000227 U	<0.000279 U	<0.000324 U	<0.000252 U	<0.000236 U	<0.000427 U	<0.000243 U	<0.000301 U	<0.000359 U	<0.000261 U	<0.00025 U	<0.000388 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	NS	mg/kg	<0.000227 U	<0.000279 U	<0.000324 U	<0.000252 U	<0.000236 U	<0.000427 U	<0.000243 U	<0.000301 U	<0.000359 U	<0.000261 U	<0.00025 U	<0.000388 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	NS	mg/kg	<0.000227 U	<0.000279 U	<0.000324 U	<0.000252 U	<0.000236 U	<0.000427 U	<0.000243 U	<0.000301 U	<0.000359 U	<0.000261 U	<0.00025 U	<0.000388 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	NS	mg/kg	<0.000227 U	<0.000279 U	<0.000324 U	<0.000252 U	<0.000236 U	<0.000427 U	<0.000243 U	<0.000301 U	<0.000359 U	<0.000261 U	<0.00025 U	<0.000388 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	NS	mg/kg	<0.000227 U	<0.000279 U	<0.000324 U	<0.000252 U	<0.000236 U	<0.000427 U	<0.000243 U	<0.000301 U	<0.000359 U	<0.000261 U	<0.00025 U	<0.000388 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	NS	mg/kg	<0.000227 U	<0.000279 U	<0.000324 U	<0.000252 U	<0.000236 U	<0.000427 U	<0.000243 U	<0.000301 U	<0.000359 U	<0.000261 U	<0.00025 U	<0.000388 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	NS	mg/kg	<0.000227 U	<0.000279 U	<0.000324 U	<0.000252 U	<0.000236 U	<0.000427 U	<0.000243 U	<0.000301 U	<0.000359 U	<0.000261 U	<0.00025 U	<0.000388 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.044	0.44	mg/kg	<0.000227 U	**0.000916**	<0.000324 U	<0.000252 U	0.000329	<0.000427 U	<0.000243 U	<0.000301 U	<0.000359 U	<0.000261 U	<0.00025 U	<0.000388 U
Perfluorooctanoic Acid (PFOA)	335-67-1	**0.00066**	0.0011	0.033	0.5	mg/kg	<0.000227 U	<0.000279 U	<0.000324 U	<0.000252 U	<0.000236 U	<0.000427 U	<0.000243 U	<0.000301 U	<0.000359 U	<0.000261 U	<0.00025 U	<0.000388 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	NS	mg/kg	<0.000227 U	<0.000279 U	<0.000324 U	<0.000252 U	0.000328	<0.000427 U	<0.000243 U	<0.000301 U	<0.000359 U	0.00027	<0.00025 U	<0.000388 U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	NS	mg/kg	<0.000227 U	<0.000279 U	<0.000324 U	<0.000252 U	<0.000236 U	<0.000427 U	<0.000243 U	<0.000301 U	<0.000359 U	<0.000261 U	<0.00025 U	<0.000388 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	NS	mg/kg	<0.000227 U	<0.000279 U	<0.000324 U	<0.000252 U	<0.000236 U	<0.000427 U	<0.000243 U	<0.000301 U	<0.000359 U	<0.000261 U	<0.00025 U	<0.000388 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	NS	mg/kg	<0.000227 U	<0.000279 U	<0.000324 U	<0.000252 U	<0.000236 U	<0.000427 U	<0.000243 U	<0.000301 U	<0.000359 U	<0.000261 U	<0.00025 U	<0.000388 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FTS	39108-34-4	NS	NS	NS	NS	mg/kg	<0.000227 U	<0.000279 U	<0.000324 U	<0.000252 U	<0.000236 U	<0.000427 U	<0.000243 U	<0.000301 U	<0.000359 U	<0.000261 U	<0.00025 U	<0.000388 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FTS	27619-97-2	NS	NS	NS	NS	mg/kg	<0.000227 U	<0.000279 U	<0.000324 U	<0.000252 U	<0.000236 U	0.000558 J	<0.000243 U	<0.000301 U	<0.000359 U	<0.000261 U	<0.00025 U	<0.000388 U

Notes provided on Page 10.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3E
Remedial Investigation Report
Soil Sample Analytical Results - Block 1822 (I)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	I-SB105	I-SB105	I-SB105	I-SB106	I-SB106	I-SB106	I-SB106NE	I-SB106NE2	I-SB106NE2	I-SB106SE	I-SB106SW	I-SB107	I-SB107	I-SB107	I-SB107
						Sample Name	I-SB105_0-2	I-SB105_7-9	I-SB105_10-12	I-SB106_0-2	I-SB106_6.5-8.5	I-SB106_10.5-12.5	I-SB106NE_6.5-8.5	I-SB106NE2_6-8	I-SB106NE2_10-12	I-SB106SE_6.5-8.5	I-SB106SW_6.5-8.5	I-SB107_0-2	DUP10_092921	I-SB107_6-8	I-SB107_10-12
						Sample Date	09/27/2021	09/27/2021	09/27/2021	09/28/2021	09/28/2021	09/28/2021	09/29/2021	09/29/2021	09/29/2021	09/29/2021	09/29/2021	09/29/2021	09/29/2021	09/29/2021	09/29/2021
						Sample Depth	0-2	7-9	10-12	0-2	6.5-8.5	10.5-12.5	6.5-8.5	6-8	10-12	6.5-8.5	6.5-8.5	0-2	0-2	6-8	10-12
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																					
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	500	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 UJ	<0.47 U	<0.0037 U	<0.0025 UJ	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 UJ	<0.0034 UJ
1,1-Dichloroethane	75-34-3	0.27	0.27	26	240	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
1,1-Dichloroethene	75-35-4	0.33	0.33	100	500	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 UJ	<0.0026 U	<0.0027 U	<0.0034 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 UJ	<0.0026 U	<0.0027 U	<0.0034 U
1,2,4-Trimethylbenzene	95-63-6	**3.6**	3.6	52	190	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	0.0022 J	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	0.0048 J	0.011	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 UJ	<0.47 U	<0.0037 U	<0.0025 UJ	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 UJ	<0.0034 UJ
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	500	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 UJ	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 UJ	<0.0026 U	<0.0027 U	<0.0034 U
1,2-Dichloroethane	107-06-2	0.02	0.02	3.1	30	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	**8.4**	8.4	52	190	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	0.0025 J	0.0045	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	280	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 UJ	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 UJ	<0.0026 U	<0.0027 U	<0.0034 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	130	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 UJ	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 UJ	<0.0026 U	<0.0027 U	<0.0034 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.1 U	<0.071 U	<0.054 U	<0.043 U	<4 U	<0.093 U	<4.4 U	<9.4 U	<0.074 U	<0.05 U	<0.043 U	<0.052 U	<0.053 U	<0.055 U	<0.069 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
Acetone	67-64-1	**0.05**	0.05	100	500	mg/kg	<0.01 U	**0.12**	0.024	0.04	<0.4 U	0.049	<0.44 U	<0.94 U	0.028	0.038	0.032	<0.0052 U	<0.0053 U	0.01 J	0.041
Acrolein	107-02-8	NS	NS	NS	NS	mg/kg	<0.01 U	<0.0071 U	<0.0054 U	<0.0043 U	<0.4 U	<0.0093 U	<0.44 U	<0.94 U	<0.0074 U	<0.005 U	<0.0043 U	<0.0052 U	<0.0053 U	<0.0055 U	<0.0069 U
Acrylonitrile	107-13-1	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
Benzene	71-43-2	**0.06**	0.06	4.8	44	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	**0.43 JD**	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
Bromochloromethane	74-97-5	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
Bromodichloromethane	75-27-4	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
Bromoform	75-25-2	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 UJ	<0.2 UJ	<0.0047 UJ	<0.22 U	<0.47 U	<0.0037 UJ	<0.0025 U	<0.0021 U	<0.0026 UJ	<0.0026 U	<0.0027 U	<0.0034 U
Bromomethane	74-83-9	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
Carbon Disulfide	75-15-0	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0036 U	0.013	<0.0021 U	<0.2 U	0.0065 J	<0.22 U	<0.47 U	0.0084	0.0025 J	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
Carbon Tetrachloride	56-23-5	0.76	0.76	2.4	22	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
Chlorobenzene	108-90-7	1.1	1.1	100	500	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 UJ	<0.47 U	<0.0037 U	<0.0025 UJ	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 UJ	<0.0034 UJ
Chloroethane	75-00-3	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
Chloroform	67-66-3	0.37	0.37	49	350	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
Chloromethane	74-87-3	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	100	500	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
Cyclohexane	110-82-7	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 UJ	<0.47 U	<0.0037 U	0.0085 J	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 UJ	<0.0034 UJ
Dibromochloromethane	124-48-1	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
Dibromomethane	74-95-3	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
Ethylbenzene	100-41-4	**1**	1	41	390	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 UJ	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 UJ	<0.0026 U	<0.0027 U	<0.0034 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	0.0094	<0.2 U	<0.0047 U	<0.22 U	10 D	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
M,P-Xylene	179601-23-1	NS	NS	NS	NS	mg/kg	<0.01 U	<0.0071 U	<0.0054 U	<0.0043 U	<0.4 U	<0.0093 U	0.54 JD	<0.94 U	<0.0074 U	0.011	<0.0043 U	<0.0052 U	<0.0053 U	<0.0055 U	<0.0069 U
Methyl Acetate	79-20-9	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	0.12	0.12	100	500	mg/kg	<0.0051 U	0.036	0.0058	0.0074	<0.2 U	0.0087 J	<0.22 U	<0.47 U	0.0047 J	0.013	0.007	<0.0026 U	<0.0026 U	<0.0027 U	0.01
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
Methylcyclohexane	108-87-2	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	1.7 D	<0.0047 U	<0.22 U	44 D	<0.0037 U	0.052	0.0067	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
Methylene Chloride	75-09-2	0.05	0.05	100	500	mg/kg	<0.01 U	<0.0071 U	<0.0054 U	<0.0043 U	<0.4 U	<0.0093 U	<0.44 U	<0.94 U	<0.0074 U	<0.005 U	<0.0043 U	<0.0052 U	<0.011 U	0.022 J	<0.011 U
n-Butylbenzene	104-51-8	**12**	12	100	500	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	0.0046	<0.2 UJ	<0.0047 UJ	<0.22 U	**36 D**	<0.0037 UJ	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
n-Propylbenzene	103-65-1	**3.9**	3.9	100	500	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	0.0031 J	<0.2 U	<0.0047 U	<0.22 U	**51 D**	<0.0037 U	<0.0025 U	0.0036 J	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	0.0025 J	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	0.0031 J	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
Sec-Butylbenzene	135-98-8	**11**	11	100	500	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	0.0088	<0.2 U	<0.0047 U	<0.22 U	**13 D**	<0.0037 U	0.003 J	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
Styrene	100-42-5	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
T-Butylbenzene	98-06-6	5.9	5.9	100	500	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 UJ	<0.47 U	<0.0037 U	<0.0025 UJ	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 UJ	<0.0034 UJ
Tert-Butyl Alcohol	75-65-0	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0036 UJ	<0.0027 UJ	<0.0021 U	<0.2 UJ	<0.0047 UJ	<0.22 UJ	<0.47 U	0.099 J	<0.0025 UJ	<0.0021 U	<0.0026 U	<0.0026 UJ	<0.0027 UJ	<0.0034 UJ
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	100	500	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	0.0046 J	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	0.004 J
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	19	150	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 UJ	<0.2 U	<0.0047 U	<0.22 UJ	<0.47 U	<0.0037 U	<0.0025 UJ	<0.0021 U	<0.0026 UJ	<0.0026 U	<0.0027 UJ	<0.0034 UJ
Toluene	108-88-3	**0.7**	0.7	100	500	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	0.61 D	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
Total Xylenes	1330-20-7	**0.26**	1.6	100	500	mg/kg	<0.015 U	<0.011 U	<0.0081 U	<0.0064 U	<0.6 U	<0.014 U	<0.66 U	<1.4 U	<0.011 U	0.014 J	<0.0064 U	<0.0079 U	<0.0079 U	<0.0082 U	<0.01 U
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	100	500	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
Trichloroethene (TCE)	79-01-6	0.47	0.47	21	200	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U
Vinyl Chloride	75-01-4	0.02	0.02	0.9	13	mg/kg	<0.0051 U	<0.0036 U	<0.0027 U	<0.0021 U	<0.2 U	<0.0047 U	<0.22 U	<0.47 U	<0.0037 U	<0.0025 U	<0.0021 U	<0.0026 U	<0.0026 U	<0.0027 U	<0.0034 U

Notes provided on Page 10.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3E
Remedial Investigation Report
Soil Sample Analytical Results - Block 1822 (I)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	I-SB105	I-SB105	I-SB105	I-SB106	I-SB106	I-SB106	I-SB106NE	I-SB106NE2	I-SB106NE2	I-SB106SE	I-SB106SW	I-SB107	I-SB107	I-SB107	I-SB107
						Sample Name	I-SB105_0-2	I-SB105_7-9	I-SB105_10-12	I-SB106_0-2	I-SB106_6.5-8.5	I-SB106_10.5-12.5	I-SB106NE_6.5-8.5	I-SB106NE2_6-8	I-SB106NE2_10-12	I-SB106SE_6.5-8.5	I-SB106SW_6.5-8.5	I-SB107_0-2	DUP10_092921	I-SB107_6-8	I-SB107_10-12
						Sample Date	09/27/2021	09/27/2021	09/27/2021	09/28/2021	09/28/2021	09/28/2021	09/29/2021	09/29/2021	09/29/2021	09/29/2021	09/29/2021	09/29/2021	09/29/2021	09/29/2021	09/29/2021
						Sample Depth	0-2	7-9	10-12	0-2	6.5-8.5	10.5-12.5	6.5-8.5	6-8	10-12	6.5-8.5	6.5-8.5	0-2	0-2	6-8	10-12
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																					
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	NS	mg/kg	<0.0857 U	<0.52 U	<0.115 U	<0.087 U	<0.095 U	<0.151 U	<0.0979 U	<0.099 U	<0.139 U	<0.104 U	<0.0978 U	<0.0986 U	<0.0958 U	<0.0959 U	<0.12 U
1,2-Diphenylhydrazine	122-66-7	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.0194 U	<0.0196 U	<0.0196 U	<0.0196 U	<0.0183 U	<0.0196 U	NA	NA	NA	NA	NA	<0.019 U	<0.0194 U	<0.0183 U	<0.019 U
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	NS	mg/kg	<0.0857 U	<0.52 U	<0.115 U	<0.087 U	<0.095 U	<0.151 U	<0.0979 U	<0.099 U	<0.139 U	<0.104 U	<0.0978 U	<0.0986 U	<0.0958 U	<0.0959 U	<0.12 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	NS	mg/kg	<0.0857 U	<0.52 U	<0.115 U	<0.087 U	<0.095 U	<0.151 U	<0.0979 UJ	<0.099 UJ	<0.139 UJ	<0.104 UJ	<0.0978 UJ	<0.0986 UJ	<0.0958 UJ	<0.0959 UJ	<0.12 UJ
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
2-Chlorophenol	95-57-8	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	500	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
2-Nitroaniline	88-74-4	NS	NS	NS	NS	mg/kg	<0.0857 U	<0.52 U	<0.115 U	<0.087 U	<0.095 U	<0.151 U	<0.0979 U	<0.099 U	<0.139 U	<0.104 U	<0.0978 U	<0.0986 U	<0.0958 U	<0.0959 U	<0.12 U
2-Nitrophenol	88-75-5	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	0.33	0.33	100	500	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
3-Nitroaniline	99-09-2	NS	NS	NS	NS	mg/kg	<0.0857 U	<0.52 U	<0.115 U	<0.087 U	<0.095 U	<0.151 U	<0.0979 U	<0.099 U	<0.139 U	<0.104 U	<0.0978 U	<0.0986 U	<0.0958 U	<0.0959 U	<0.12 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	NS	mg/kg	<0.0857 U	<0.52 U	<0.115 U	<0.087 U	<0.095 U	<0.151 U	<0.0979 U	<0.099 U	<0.139 U	<0.104 U	<0.0978 U	<0.0986 U	<0.0958 U	<0.0959 U	<0.12 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
4-Chloroaniline	106-47-8	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
4-Nitroaniline	100-01-6	NS	NS	NS	NS	mg/kg	<0.0857 U	<0.52 U	<0.115 U	<0.087 U	<0.095 U	<0.151 U	<0.0979 U	<0.099 U	<0.139 U	<0.104 U	<0.0978 U	<0.0986 U	<0.0958 U	<0.0959 U	<0.12 U
4-Nitrophenol	100-02-7	NS	NS	NS	NS	mg/kg	<0.0857 U	<0.52 U	<0.115 U	<0.087 U	<0.095 U	<0.151 U	<0.0979 U	<0.099 U	<0.139 U	<0.104 U	<0.0978 U	<0.0986 U	<0.0958 U	<0.0959 U	<0.12 U
Acenaphthene	83-32-9	20	98	100	500	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	0.118 D	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
Acenaphthylene	208-96-8	100	107	100	500	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	0.0514 JD	<0.0602 U
Acetophenone	98-86-2	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	NS	NS	NS	mg/kg	<0.172 U	<1.04 U	<0.23 U	<0.174 U	<0.19 U	<0.301 U	<0.196 U	<0.198 U	<0.279 U	<0.209 U	<0.196 U	<0.197 U	<0.192 U	<0.192 U	<0.241 U
Anthracene	120-12-7	100	1000	100	500	mg/kg	0.0685 JD	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	0.0982 JD	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	0.0544 JD	<0.0602 U
Atrazine	1912-24-9	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
Benzaldehyde	100-52-7	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
Benzidine	92-87-5	NS	NS	NS	NS	mg/kg	<0.172 U	<1.04 U	<0.23 U	<0.174 U	<0.19 U	<0.301 U	<0.196 U	<0.198 U	<0.279 U	<0.209 U	<0.196 U	<0.197 U	<0.192 U	<0.192 U	<0.241 U
Benzo(a)anthracene	56-55-3	**1**	1	1	5.6	mg/kg	0.248 D	<0.26 U	<0.0576 U	0.0591 JD	<0.0476 U	<0.0755 U	<0.0491 U	0.12 D	<0.0697 U	0.0592 JD	<0.049 U	0.106 D	0.1 D	0.133 D	<0.0602 U
Benzo(a)pyrene	50-32-8	**1**	22	1	1	mg/kg	0.216 D	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	0.0847 JD	<0.0697 U	<0.0522 U	<0.049 U	0.0938 JD	0.0988 D	0.124 D	<0.0602 U
Benzo(b)fluoranthene	205-99-2	**1**	1.7	1	5.6	mg/kg	0.192 D	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	0.0831 JD	<0.0697 U	<0.0522 U	<0.049 U	0.0922 JD	0.103 D	0.0874 JD	<0.0602 U
Benzo(g,h,i)Perylene	191-24-2	100	1000	100	500	mg/kg	0.154 D	<0.26 U	<0.0576 U	0.048 JD	<0.0476 U	<0.0755 U	<0.0491 U	0.0522 JD	<0.0697 U	<0.0522 U	<0.049 U	0.0528 JD	0.0505 JD	0.0713 JD	<0.0602 U
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	3.9	56	mg/kg	0.137 D	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	0.072 JD	<0.0697 U	<0.0522 U	<0.049 U	0.0741 JD	0.0865 JD	0.0927 JD	<0.0602 U
Benzoic Acid	65-85-0	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
Benzyl Alcohol	100-51-6	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	1.14 D	0.11 D	<0.0755 U	<0.0491 U	0.514 D	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
Caprolactam	105-60-2	NS	NS	NS	NS	mg/kg	<0.0857 U	<0.52 U	<0.115 U	<0.087 U	<0.095 U	<0.151 U	<0.0979 U	<0.099 U	<0.139 U	<0.104 U	<0.0978 U	<0.0986 U	<0.0958 U	<0.0959 U	<0.12 U
Carbazole	86-74-8	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
Chrysene	218-01-9	**1**	1	3.9	56	mg/kg	0.212 D	<0.26 U	<0.0576 U	0.0939 D	<0.0476 U	<0.0755 U	<0.0491 U	0.125 D	<0.0697 U	0.0558 JD	<0.049 U	0.093 JD	0.0888 JD	0.139 D	<0.0602 U
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.33	0.56	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
Dibenzofuran	132-64-9	7	210	59	350	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
Dibutyl phthalate	84-74-2	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	0.111 D	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
Diethyl phthalate	84-66-2	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
Dimethyl phthalate	131-11-3	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
Dioctyl phthalate	117-84-0	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
Diphenylamine	122-39-4	NS	NS	NS	NS	mg/kg	<0.0857 U	<0.52 U	<0.115 U	<0.087 U	<0.095 U	<0.151 U	<0.0979 U	<0.099 U	<0.139 U	<0.104 U	<0.0978 U	<0.0986 U	<0.0958 U	<0.0959 U	<0.12 U
Fluoranthene	206-44-0	100	1000	100	500	mg/kg	0.411 D	<0.26 U	<0.0576 U	0.136 D	<0.0476 U	<0.0755 U	<0.0491 U	0.287 D	<0.0697 U	0.131 D	<0.049 U	0.17 D	0.145 D	0.229 D	<0.0602 U
Fluorene	86-73-7	30	386	100	500	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	0.193 D	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
Hexachlorobenzene	118-74-1	0.33	3.2	1.2	6	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 UJ	<0.0496 UJ	<0.0697 UJ	<0.0522 UJ	<0.049 UJ	<0.0494 UJ	<0.048 UJ	<0.0481 UJ	<0.0602 UJ
Hexachloroethane	67-72-1	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	0.5	5.6	mg/kg	0.191 D	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	0.0709 JD	0.0705 JD	0.0797 JD	<0.0602 U
Isophorone	78-59-1	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
Naphthalene	91-20-3	12	12	100	500	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
Nitrobenzene	98-95-3	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
n-Nitrosodimethylamine	62-75-9	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	NS	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	6.7	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
Phenanthrene	85-01-8	100	1000	100	500	mg/kg	0.232 D	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	0.462 D	<0.0697 U	0.0742 JD	<0.049 U	0.0693 JD	0.0505 JD	0.192 D	<0.0602 U
Phenol	108-95-2	0.33	0.33	100	500	mg/kg	<0.043 U	<0.26 U	<0.0576 U	<0.0436 U	<0.0476 U	<0.0755 U	<0.0491 U	<0.0496 U	<0.0697 U	<0.0522 U	<0.049 U	<0.0494 U	<0.048 U	<0.0481 U	<0.0602 U
Pyrene	129-00-0	100	1000	100	500	mg/kg	0.485 D	<0.26 U	<0.0576 U	0.196 D	<0.0476 U	<0.0755 U	<0.0491 U	0.302 D	<0.0697 U	0.114 D	<0.049 U	0.155 D	0.144 D	0.264 D	<0.0602 U
Pyridine	110-86-1	NS	NS	NS	NS	mg/kg	<0.172 U	<1.04 U	<0.23 U	<0.174 U	<0.19 U	<0.301 U	<0.196 U	<0.198 U	<0.279 U	<0.209 U	<0.196 U	<0.197 U	<0.192 U	<0.192 U	<0.241 U

Notes provided on Page 10.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3E
Remedial Investigation Report
Soil Sample Analytical Results - Block 1822 (I)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	I-SB105	I-SB105	I-SB105	I-SB106	I-SB106	I-SB106	I-SB106NE	I-SB106NE2	I-SB106NE2	I-SB106SE	I-SB106SW	I-SB107	I-SB107	I-SB107	I-SB107
						Sample Name	I-SB105_0-2	I-SB105_7-9	I-SB105_10-12	I-SB106_0-2	I-SB106_6.5-8.5	I-SB106_10.5-12.5	I-SB106NE_6.5-8.5	I-SB106NE2_6-8	I-SB106NE2_10-12	I-SB106SE_6.5-8.5	I-SB106SW_6.5-8.5	I-SB107_0-2	DUP10_092921	I-SB107_6-8	I-SB107_10-12
						Sample Date	09/27/2021	09/27/2021	09/27/2021	09/28/2021	09/28/2021	09/28/2021	09/29/2021	09/29/2021	09/29/2021	09/29/2021	09/29/2021	09/29/2021	09/29/2021	09/29/2021	09/29/2021
						Sample Depth	0-2	7-9	10-12	0-2	6.5-8.5	10.5-12.5	6.5-8.5	6-8	10-12	6.5-8.5	6.5-8.5	0-2	0-2	6-8	10-12
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Petroleum Hydrocarbons																					
Total Petroleum Hydrocarbons	TPH	NS	NS	NS	NS	UNKNOWN	NA	NA	NA	NA	NA	NA	NA	<1 U	NA	NA	NA	NA	NA	NA	NA
Pesticides																					
4,4'-DDD	72-54-8	**0.0033**	14	13	92	mg/kg	<0.00172 U	<0.00208 U	<0.0023 U	<0.00174 U	<0.00189 U	<0.00294 U	NA	NA	NA	NA	NA	<0.00195 U	<0.0019 U	<0.0019 U	<0.00239 U
4,4'-DDE	72-55-9	**0.0033**	17	8.9	62	mg/kg	<0.00172 U	<0.00208 U	<0.0023 U	<0.00174 U	<0.00189 U	<0.00294 U	NA	NA	NA	NA	NA	<0.00195 U	<0.0019 U	<0.0019 U	<0.00239 U
4,4'-DDT	50-29-3	**0.0033**	136	7.9	47	mg/kg	<0.00172 U	<0.00208 U	<0.0023 U	<0.00174 U	<0.00189 U	<0.00294 U	NA	NA	NA	NA	NA	<0.00195 U	<0.0019 U	<0.0019 U	<0.00239 U
Aldrin	309-00-2	0.005	0.19	0.097	0.68	mg/kg	<0.00172 U	<0.00208 U	<0.0023 U	<0.00174 U	<0.00189 U	<0.00294 U	NA	NA	NA	NA	NA	<0.00195 U	<0.0019 U	<0.0019 U	<0.00239 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	0.48	3.4	mg/kg	<0.00172 U	<0.00208 U	<0.0023 U	<0.00174 U	<0.00189 U	<0.00294 U	NA	NA	NA	NA	NA	<0.00195 U	<0.0019 U	<0.0019 U	<0.00239 U
Alpha Chlordane	5103-71-9	0.094	2.9	4.2	24	mg/kg	<0.00172 U	<0.00208 U	<0.0023 U	<0.00174 U	<0.00189 U	<0.00294 U	NA	NA	NA	NA	NA	<0.00195 U	<0.0019 U	<0.0019 U	<0.00239 U
Alpha Endosulfan	959-98-8	2.4	102	24	200	mg/kg	<0.00172 U	<0.00208 U	<0.0023 U	<0.00174 U	<0.00189 U	<0.00294 U	NA	NA	NA	NA	NA	<0.00195 U	<0.0019 U	<0.0019 U	<0.00239 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	0.36	3	mg/kg	<0.00172 U	<0.00208 U	<0.0023 U	<0.00174 U	<0.00189 U	<0.00294 U	NA	NA	NA	NA	NA	<0.00195 U	<0.0019 U	<0.0019 U	<0.00239 U
Beta Endosulfan	33213-65-9	2.4	102	24	200	mg/kg	<0.00172 U	<0.00208 U	<0.0023 U	<0.00174 U	<0.00189 U	<0.00294 U	NA	NA	NA	NA	NA	<0.00195 U	<0.0019 U	<0.0019 U	<0.00239 U
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	NS	mg/kg	<0.0345 U	<0.0415 U	<0.0459 U	<0.0348 U	<0.0378 U	<0.0588 U	NA	NA	NA	NA	NA	<0.039 U	<0.0379 U	<0.0379 U	<0.0477 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	100	500	mg/kg	<0.00172 U	<0.00208 U	<0.0023 U	<0.00174 U	<0.00189 U	<0.00294 U	NA	NA	NA	NA	NA	<0.00195 U	<0.0019 U	<0.0019 U	<0.00239 U
Dieldrin	60-57-1	0.005	0.1	0.2	1.4	mg/kg	<0.00172 U	<0.00208 U	<0.0023 U	<0.00174 U	<0.00189 U	<0.00294 U	NA	NA	NA	NA	NA	<0.00195 U	<0.0019 U	<0.0019 U	<0.00239 U
Endosulfan Sulfate	1031-07-8	2.4	1000	24	200	mg/kg	<0.00172 U	<0.00208 U	<0.0023 U	<0.00174 U	<0.00189 U	<0.00294 U	NA	NA	NA	NA	NA	<0.00195 U	<0.0019 U	<0.0019 U	<0.00239 U
Endrin	72-20-8	0.014	0.06	11	89	mg/kg	<0.00172 U	<0.00208 U	<0.0023 U	<0.00174 U	<0.00189 U	<0.00294 U	NA	NA	NA	NA	NA	<0.00195 U	<0.0019 U	<0.0019 U	<0.00239 U
Endrin Aldehyde	7421-93-4	NS	NS	NS	NS	mg/kg	<0.00172 U	<0.00208 U	<0.0023 U	<0.00174 U	<0.00189 U	<0.00294 U	NA	NA	NA	NA	NA	<0.00195 U	<0.0019 U	<0.0019 U	<0.00239 U
Endrin Ketone	53494-70-5	NS	NS	NS	NS	mg/kg	<0.00172 U	<0.00208 U	<0.0023 U	<0.00174 U	<0.00189 U	<0.00294 U	NA	NA	NA	NA	NA	<0.00195 U	<0.0019 U	<0.0019 U	<0.00239 U
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	1.3	9.2	mg/kg	<0.00172 U	<0.00208 U	<0.0023 U	<0.00174 U	<0.00189 U	<0.00294 U	NA	NA	NA	NA	NA	<0.00195 U	<0.0019 U	<0.0019 U	<0.00239 U
Gamma-Chlordane	5566-34-7	NS	NS	NS	NS	mg/kg	<0.00172 U	<0.00208 U	<0.0023 U	<0.00174 U	<0.00189 U	<0.00294 U	NA	NA	NA	NA	NA	<0.00195 U	<0.0019 U	<0.0019 U	<0.00239 U
Heptachlor	76-44-8	0.042	0.38	2.1	15	mg/kg	<0.00172 U	<0.00208 U	<0.0023 U	<0.00174 U	<0.00189 U	<0.00294 U	NA	NA	NA	NA	NA	<0.00195 U	<0.0019 U	<0.0019 U	<0.00239 U
Heptachlor Epoxide	1024-57-3	NS	NS	NS	NS	mg/kg	<0.00172 U	<0.00208 U	<0.0023 U	<0.00174 U	<0.00189 U	<0.00294 U	NA	NA	NA	NA	NA	<0.00195 U	<0.0019 U	<0.0019 U	<0.00239 U
Methoxychlor	72-43-5	NS	NS	NS	NS	mg/kg	<0.00172 U	<0.00208 U	<0.0023 U	<0.00174 U	<0.00189 U	<0.00294 U	NA	NA	NA	NA	NA	<0.00195 U	<0.0019 U	<0.0019 U	<0.00239 U
Toxaphene	8001-35-2	NS	NS	NS	NS	mg/kg	<0.172 U	<0.208 U	<0.23 U	<0.174 U	<0.189 U	<0.294 U	NA	NA	NA	NA	NA	<0.195 U	<0.19 U	<0.19 U	<0.239 U
Herbicides																					
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	NS	mg/kg	<0.0207 U	<0.0247 U	<0.0278 U	<0.0207 U	<0.0232 U	<0.0361 U	NA	NA	NA	NA	NA	<0.0236 U	<0.0228 U	<0.0229 U	<0.0285 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	NS	mg/kg	<0.0207 U	<0.0247 U	<0.0278 U	<0.0207 U	<0.0232 U	<0.0361 U	NA	NA	NA	NA	NA	<0.0236 U	<0.0228 U	<0.0229 U	<0.0285 U
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	100	500	mg/kg	<0.0207 U	<0.0247 U	<0.0278 U	<0.0207 U	<0.0232 U	<0.0361 U	NA	NA	NA	NA	NA	<0.0236 U	<0.0228 U	<0.0229 U	<0.0285 U
Polychlorinated Biphenyl																					
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	NS	mg/kg	<0.0174 U	<0.021 U	<0.0232 U	<0.0878 U	<0.0191 U	<0.0297 U	NA	NA	NA	NA	NA	<0.0197 U	<0.0191 U	<0.0192 U	<0.0241 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	NS	mg/kg	<0.0174 U	<0.021 U	<0.0232 U	<0.0878 U	<0.0191 U	<0.0297 U	NA	NA	NA	NA	NA	<0.0197 U	<0.0191 U	<0.0192 U	<0.0241 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	NS	mg/kg	<0.0174 U	<0.021 U	<0.0232 U	<0.0878 U	<0.0191 U	<0.0297 U	NA	NA	NA	NA	NA	<0.0197 U	<0.0191 U	<0.0192 U	<0.0241 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	NS	mg/kg	<0.0174 U	<0.021 U	<0.0232 U	<0.0878 U	<0.0191 U	<0.0297 U	NA	NA	NA	NA	NA	<0.0197 U	<0.0191 U	<0.0192 U	<0.0241 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	NS	mg/kg	<0.0174 U	<0.021 U	<0.0232 U	1.39 J	0.389 J	<0.0297 U	NA	NA	NA	NA	NA	<0.0197 U	<0.0191 U	<0.0192 U	<0.0241 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	NS	mg/kg	<0.0174 U	<0.021 U	<0.0232 U	<0.0878 U	<0.0191 U	<0.0297 U	NA	NA	NA	NA	NA	<0.0197 U	<0.0191 U	<0.0192 U	<0.0241 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	NS	mg/kg	<0.0174 U	<0.021 U	<0.0232 U	0.653 D	0.188	<0.0297 U	NA	NA	NA	NA	NA	<0.0197 U	<0.0191 U	<0.0192 U	<0.0241 U
Total PCBs	1336-36-3	**0.1**	3.2	1	1	mg/kg	<0.0174 U	<0.021 U	<0.0232 U	**2.05 D**	**0.578**	<0.0297 U	NA	NA	NA	NA	NA	<0.0197 U	<0.0191 U	<0.0192 U	<0.0241 U
Metals																					
Aluminum	7429-90-5	NS	NS	NS	NS	mg/kg	7,700	7,510	1,860	5,230	4,230	18,500	NA	NA	NA	NA	NA	12,700 J	4,450 J	4,830	13,200
Antimony	7440-36-0	NS	NS	NS	NS	mg/kg	<2.65 U	<3.18 U	<3.54 U	<2.65 U	<2.92 U	4.98	NA	NA	NA	NA	NA	3.27 J	<2.89 U	<2.89 U	3.97
Arsenic	7440-38-2	**13**	16	16	16	mg/kg	4.43	6.84	<2.12 U	<1.59 U	<1.75 U	3.54	NA	NA	NA	NA	NA	2.68	1.74	3.99	5.97
Barium	7440-39-3	**350**	820	400	400	mg/kg	75.2	321	4.94	82.8	37	50.7	NA	NA	NA	NA	NA	91.7 J	28.4 J	42.9	39.6
Beryllium	7440-41-7	7.2	47	72	590	mg/kg	<0.053 U	0.449	0.158	<0.053 U	<0.058 U	<0.091 U	NA	NA	NA	NA	NA	<0.059 U	<0.058 U	<0.058 U	<0.073 U
Cadmium	7440-43-9	**2.5**	7.5	4.3	9.3	mg/kg	1.03	0.696	<0.425 U	1.11	0.36	<0.547 U	NA	NA	NA	NA	NA	1.15 J	<0.347 UJ	0.617	<0.437 U
Calcium	7440-70-2	NS	NS	NS	NS	mg/kg	45,600	17,600	5,010	7,010	764	3,530	NA	NA	NA	NA	NA	2,570 J	786 J	18,000	8,300
Chromium, Hexavalent	18540-29-9	1	19	110	400	mg/kg	<0.529 U	<0.635 U	<0.708 U	<0.53 U	<0.585 U	<0.912 U	NA	NA	NA	NA	NA	<0.595 U	<0.578 U	<0.579 U	<0.728 U
Chromium, Total	7440-47-3	NS	NS	NS	NS	mg/kg	15.9	14.5	3.94	13.1	10.9	36.6	NA	NA	NA	NA	NA	25.7 J	8.23 J	12.2	26.4
Chromium, Trivalent	16065-83-1	**30**	NS	180	1500	mg/kg	15.9	14.5	3.94	13.1	10.9	**36.6**	NA	NA	NA	NA	NA	25.7 J	8.23 J	12.2	26.4
Cobalt	7440-48-4	NS	NS	NS	NS	mg/kg	7.55	6.39	0.755	5.23	4.08	13.6	NA	NA	NA	NA	NA	7.56 J	2.8 J	5.81	10.2
Copper	7440-50-8	**50**	1720	270	270	mg/kg	38	**139**	<2.83 U	27.1	11.3	14.1	NA	NA	NA	NA	NA	**93.1 J**	10.5 J	27.1	10.8
Cyanide	57-12-5	27	40	27	27	mg/kg	<0.529 U	<0.635 U	<0.708 U	<0.53 U	<0.585 U	<0.912 U	NA	NA	NA	NA	NA	<0.595 U	<0.578 U	<0.579 U	<0.728 U
Iron	7439-89-6	NS	NS	NS	NS	mg/kg	15,500	10,800	7,360	7,010	5,610	33,500	NA	NA	NA	NA	NA	17,200 J	5,990 J	16,400	28,600
Lead	7439-92-1	**63**	450	400	1000	mg/kg	**92.8**	**421**	<0.708 U	**73.7**	5.74	10.8	NA	NA	NA	NA	NA	**113 J**	17.2 J	44.1	9.05
Magnesium	7439-95-4	NS	NS	NS	NS	mg/kg	8,380	6,180	3,480	2,250	904	9,050	NA	NA	NA	NA	NA	2,500 J	1,020 J	5,520	7,040
Manganese	7439-96-5	1600	2000	2000	10000	mg/kg	412	131	112	291	83.9	875	NA	NA	NA	NA	NA	295 J	69.4 J	159	706
Mercury	7439-97-6	**0.18**	0.73	0.81	2.8	mg/kg	0.115	**1.93**	0.0567	**2.35**	0.0403	**0.227**	NA	NA	NA	NA	NA	0.136	0.0819	0.0542	<0.0437 U
Nickel	7440-02-0	**30**	130	310	310	mg/kg	25.8	17.5	8.22	11	5.08	23.6	NA	NA	NA	NA	NA	16.9 J	4.91 J	10.9	19.4 J
Potassium	7440-09-7	NS	NS	NS	NS	mg/kg	793	863	1,490	595 B	388 B	4,480 B	NA	NA	NA	NA	NA	1,080 J	424 J	680	3,530
Selenium	7782-49-2	3.9	4	180	1500	mg/kg	<2.65 U	<3.18 U	<3.54 U	<2.65 U	<2.92 U	<4.56 U	NA	NA	NA	NA	NA	<2.97 U	<2.89 U	<2.89 U	<3.64 U
Silver	7440-22-4	2	8.3	180	1500	mg/kg	<0.529 U	<0.635 U	<0.708 U	<0.53 U	<0.585 U	<0.912 U	NA	NA	NA	NA	NA	<0.595 UJ	<0.578 U	<0.579 U	<0.728 U
Sodium	7440-23-5	NS	NS	NS	NS	mg/kg	153	255	394	137	73.7	5,590	NA	NA	NA	NA	NA	133 J	<57.8 U	76.7	2,500
Thallium	7440-28-0	NS	NS	NS	NS	mg/kg	<2.65 U	<3.18 U	<3.54 U	<2.65 U	<2.92 U	<4.56 U	NA	NA	NA	NA	NA	<2.97 U	<2.89 U	<2.89 U	<3.64 U
Vanadium	7440-62-2	NS	NS	NS	NS	mg/kg	26.2	38.8	4.16	17.5	14.9	44.8	NA	NA	NA	NA	NA	30.1 J	10.6 J	18.5	32.7
Zinc	7440-66-6	**109**	2480	10000	10000	mg/kg	**123**	**291**	<3.54 U	**146**	28.6	77.2	NA	NA	NA	NA	NA	**215 J**	40 J	72.4	57.9
General Chemistry																					
Solids, Percent	SOLID	NS	NS	NS	NS	Percent	94.4	78.7	70.7	94.3	85.5	54.8	84	83.1	58.8	79	84.7	84	86.5	86.4	68.7
Perfluorooctanoic acids																					
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	NS	NS	NS	mg/kg	<0.000232 U	0.0023 J	<0.000344 U	<0.000247 U	<0.000209 U	<0.000455 U	NA	NA	NA	NA	NA	<0.000292 U	<0.000259 U	<0.000237 U	<0.000321 U
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOSA	2355-31-9	NS	NS	NS	NS	mg/kg	<0.000232 U	<0.0003 U	<0.000344 U	0.000493	<0.000209 U	<0.000455 U	NA	NA	NA	NA	NA	<0.000292 U	<0.000259 U	<0.000237 U	<0.000321 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	NS	mg/kg	<0.000232 U	<0.0003 U	<0.000344 U	<0.000247 U	<0.000209 U	<0.000455 U	NA	NA	NA	NA	NA	<0.000292 U	<0.000259 U	<0.000237 U	<0.000321 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	NS	mg/kg	<0.000232 U	<0.0003 U	<0.000344 U	<0.000247 U	<0.000209 U	<0.000455 U	NA	NA	NA	NA	NA	<0.000292 U	<0.000259 U	<0.000237 U	<0.000321 U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	NS	mg/kg	<0.000232 U	<0.0003 U	<0.000344 U	<0.000247 U	<0.000209 U	<0.000455 U	NA	NA	NA	NA	NA	<0.000292 U	<0.000259 U	<0.000237 U	<0.000321 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	NS	mg/kg	<0.000232 U	<0.0003 U	<0.000344 U	<0.000247 U	<0.000209 U	<0.000455 U	NA	NA	NA	NA	NA	<0.000292 U	<0.000259 U	<0.000237 U	<0.000321 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	NS	mg/kg	<0.000232 U	<0.0003 U	<0.000344 U	<0.000247 U	<0.000209 U	<0.000455 U	NA	NA	NA	NA	NA	<0.000292 U	<0.000259 U	<0.000237 U	<0.000321 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	NS	mg/kg	<0.000232 U	<0.0003 U	<0.000344 U	<0.000247 U	<0.000209 U	<0.000455 U	NA	NA	NA	NA	NA	<0.000292 U	<0.000259 U	<0.000237 U	<0.000321 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	NS	mg/kg	<0.000232 U	<0.0003 U	<0.000344 U	<0.000247 U	<0.000209 U	<0.000455 U	NA	NA	NA	NA	NA	<0.000292 U	<0.000259 U	<0.000237 U	<0.000321 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	NS	mg/kg	<0.000232 U	<0.0003 U	<0.000344 U	<0.000247 U	<0.000209 U	<0.000455 U	NA	NA	NA	NA	NA	<0.000292 U	<0.000259 U	<0.000237 U	<0.000321 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	NS	mg/kg	<0.000232 U	<0.0003 U	<0.000344 U	<0.000247 U	<0.000209 U	<0.000455 U	NA	NA	NA	NA	NA	<0.000292 U	<0.000259 U	<0.000237 U	<0.000321 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	NS	mg/kg	<0.000232 U	<0.0003 U	<0.000344 U	<0.000247 U	<0.000209 U	<0.000455 U	NA	NA	NA	NA	NA	<0.000292 U	<0.000259 U	<0.000237 U	<0.000321 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	NS	mg/kg	<0.000232 U	<0.0003 U	<0.000344 U	0.00227	<0.000209 U	<0.000455 U	NA	NA	NA	NA	NA	<0.000292 U	<0.000259 U	<0.000237 U	<0.000321 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.044	0.44	mg/kg	<0.000232 U	0.000609	<0.000344 U	**0.00548**	0.000243	<0.000455 U	NA	NA	NA	NA	NA	**0.00178 J**	**0.000887 J**	<0.000237 U	<0.000321 U
Perfluorooctanoic Acid (PFOA)	335-67-1	**0.00066**	0.0011	0.033	0.5	mg/kg	<0.000232 U	<0.0003 U	<0.000344 U	<0.000247 U	<0.000209 U	<0.000455 U	NA	NA	NA	NA	NA	<0.000292 U	<0.000259 U	<0.000237 U	<0.000321 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	NS	mg/kg	<0.000232 U	<0.0003 U	<0.000344 U	<0.000247 U	<0.000209 U	<0.000455 U	NA	NA	NA	NA	NA	<0.000292 U	<0.000259 U	0.000311	<0.000321 U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	NS	mg/kg	<0.000232 U	<0.0003 U	<0.000344 U	<0.000247 U	<0.000209 U	<0.000455 U	NA	NA	NA	NA	NA	<0.000292 U	<0.000259 U	<0.000237 U	<0.000321 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	NS	mg/kg	<0.000232 U	<0.0003 U	<0.000344 U	<0.000247 U	<0.000209 U	<0.000455 U	NA	NA	NA	NA	NA	<0.000292 U	<0.000259 U	<0.000237 U	<0.000321 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	NS	mg/kg	<0.000232 U	<0.0003 U	<0.000344 U	<0.000247 U	<0.000209 U	<0.000455 U	NA	NA	NA	NA	NA	<0.000292 U	<0.000259 U	<0.000237 U	<0.000321 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FTS	39108-34-4	NS	NS	NS	NS	mg/kg	<0.000232 U	<0.0003 U	<0.000344 U	<0.000247 U	<0.000209 U	<0.000455 U	NA	NA	NA	NA	NA	<0.000292 U	<0.000259 U	<0.000237 U	<0.000321 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FTS	27619-97-2	NS	NS	NS	NS	mg/kg	<0.000232 U	<0.0003 U	<0.000344 U	<0.000247 U	<0.000209 U	<0.000455 U	NA	NA	NA	NA	NA	<0.000292 U	<0.000259 U	<0.000237 U	<0.000321 U

Notes provided on Page 10.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3E
Remedial Investigation Report
Soil Sample Analytical Results - Block 1822 (I)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Notes:

CAS - Chemical Abstract Service
NS - No standard
mg/kg - milligram per kilogram
NA - Not analyzed
RL - Reporting limit
<RL - Not detected
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 Unrestricted Use (UU), Protection of Groundwater (PGW), Restricted Use Restricted-Residential (RURR), and Restricted Use Commercial (CU) Soil Cleanup Objectives (SCO).
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).

Qualifiers:

D - The concentration reported is a result of a diluted sample.
B - The analyte was found in the associated analysis batch blank.
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.

Exceedance Summary:

10 - Result exceeds Unrestricted Use SCOs
10 - Result exceeds Protection of Groundwater SCOs
10 - Result exceeds Restricted Use Restricted-Residential SCOs
10 - Result exceeds Restricted Use Commercial SCOs

Table 3F
Remedial Investigation Report
Soil Sample Analytical Results - Block 1833 (J)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	J-EP101	J-EP101	J-EP101	J-EP102	J-EP102	J-EP105	J-EP105	J-EP105	J-EP106	J-EP106	J-EP107
						Sample Name	J-EP101_0-2	J-EP101_10-11	J-EP101_19-20	J-EP102_6-8	DUP18_100821	J-EP105_0-2	J-EP105_5-6	J-EP105_11-12	J-EP106_7-8	J-EP106_19-20	J-EP107_6-7
						Sample Date	09/03/2021	09/03/2021	09/03/2021	10/08/2021	10/08/2021	09/07/2021	09/07/2021	09/07/2021	09/03/2021	09/03/2021	09/08/2021
						Sample Depth	0-2	10-11	19-20	6-8	6-8	0-2	5-6	11-12	7-8	19-20	6-7
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																	
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	500	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 UJ	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
1,1-Dichloroethane	75-34-3	0.27	0.27	26	240	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
1,1-Dichloroethene	75-35-4	0.33	0.33	100	500	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
1,2,4-Trimethylbenzene	95-63-6	**3.6**	3.6	52	190	mg/kg	<0.0023 U	**5.8 D**	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	**370 D**	1.1 J	**61 D**	<0.32 U	**55 D**
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
1,2-Dichlorobenzene	95-50-1	**1.1**	1.1	100	500	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
1,2-Dichloroethane	107-06-2	0.02	0.02	3.1	30	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	**8.4**	8.4	52	190	mg/kg	<0.0023 U	0.95 D	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	**150 D**	0.48 J	**22 D**	<0.32 U	**17 D**
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	280	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	130	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.046 U	<4.9 U	<0.074 U	<0.073 U	<0.045 U	<0.047 U	<24 U	<0.079 U	<0.061 U	<6.4 U	<0.047 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
Acetone	67-64-1	**0.05**	0.05	100	500	mg/kg	0.013	<0.49 U	**0.06**	<0.037 U	0.013	0.031	<2.4 U	**0.074**	**0.12**	**3.7 D**	**0.077**
Acrolein	107-02-8	NS	NS	NS	NS	mg/kg	<0.0046 U	<0.49 U	<0.0074 U	<0.0073 U	<0.0045 U	<0.0047 U	<2.4 U	<0.0079 U	<0.0061 U	<0.64 U	<0.0047 U
Acrylonitrile	107-13-1	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
Benzene	71-43-2	**0.06**	0.06	4.8	44	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	0.047	**0.22**	<0.32 U	0.029
Bromochloromethane	74-97-5	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
Bromodichloromethane	75-27-4	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
Bromoform	75-25-2	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 UJ	<0.0039 U	<0.003 U	<0.32 U	<0.0023 UJ
Bromomethane	74-83-9	NS	NS	NS	NS	mg/kg	<0.0023 UJ	<0.25 UJ	<0.0037 UJ	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	<0.003 UJ	<0.32 UJ	<0.0023 U
Carbon Disulfide	75-15-0	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	0.0044 J	1.4 D	0.0045 J
Carbon Tetrachloride	56-23-5	0.76	0.76	2.4	22	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
Chlorobenzene	108-90-7	1.1	1.1	100	500	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 UJ	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
Chloroethane	75-00-3	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
Chloroform	67-66-3	0.37	0.37	49	350	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
Chloromethane	74-87-3	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
Cis-1,2-Dichloroethene	156-59-2	**0.25**	0.25	100	500	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
Cyclohexane	110-82-7	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	0.0028 J	<0.0024 U	<1.2 U	0.014	0.033	<0.32 U	<0.0023 U
Dibromochloromethane	124-48-1	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
Dibromomethane	74-95-3	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 UJ	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
Ethylbenzene	100-41-4	**1**	1	41	390	mg/kg	<0.0023 U	**1.1 D**	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	**13 D**	0.1	**9.8 D**	<0.32 U	**6 D**
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	NS	mg/kg	<0.0023 U	0.97 D	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	2.4 D	0.048	0.077	<0.32 U	0.03
M,P-Xylene	179601-23-1	NS	NS	NS	NS	mg/kg	<0.0046 U	2.2 D	<0.0074 U	<0.0073 U	<0.0045 U	<0.0047 U	180 D	0.52	36 D	<0.64 U	28 D
Methyl Acetate	79-20-9	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	0.024 J	<0.0023 UJ	0.011	2.8 D	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	0.12	0.12	100	500	mg/kg	<0.0023 U	<0.25 U	0.015	<0.0036 U	0.0034 J	0.0037 J	<1.2 U	0.015	0.018	<0.32 U	0.015
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	0.037	<0.003 U	<0.32 U	<0.0023 U
Methylcyclohexane	108-87-2	NS	NS	NS	NS	mg/kg	<0.0023 U	4.3 D	<0.0037 U	0.005 J	0.007	<0.0024 U	1.3 JD	0.051	0.16	<0.32 U	0.062
Methylene Chloride	75-09-2	0.05	0.05	100	500	mg/kg	<0.0046 U	<0.49 U	<0.0074 U	<0.0073 U	<0.0045 U	<0.0047 U	<2.4 U	<0.0079 U	<0.0061 U	<0.64 U	<0.0047 U
n-Butylbenzene	104-51-8	**12**	12	100	500	mg/kg	<0.0023 U	4 J	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	2.9 D	0.035	0.11 J	<0.32 U	0.071
n-Propylbenzene	103-65-1	**3.9**	3.9	100	500	mg/kg	<0.0023 U	2.1 D	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	**4.5 D**	0.091	0.19	<0.32 U	0.085
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	NS	mg/kg	<0.0023 U	0.66 D	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	120 D	0.39 J	18 D	<0.32 U	16 D
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	NS	NS	mg/kg	<0.0023 U	0.38 JD	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	5.6 D	0.021	0.036	3.8 D	0.0097
Sec-Butylbenzene	135-98-8	11	11	100	500	mg/kg	<0.0023 U	2.2 D	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	3.3 D	0.023	0.026	<0.32 U	0.0096
Styrene	100-42-5	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	0.046	<0.32 U	0.045
T-Butylbenzene	98-06-6	5.9	5.9	100	500	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
Tert-Butyl Alcohol	75-65-0	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 UJ	<0.003 U	<0.32 U	<0.0023 U
Tert-Butyl Methyl Ether	1634-04-4	**0.93**	0.93	100	500	mg/kg	<0.0023 U	<0.25 U	0.0056 J	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	0.014	**1.8 D**	**1.8 D**	0.087
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	19	150	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
Toluene	108-88-3	**0.7**	0.7	100	500	mg/kg	<0.0023 U	0.52 D	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	**5.7 D**	0.1	**4.4 D**	<0.32 U	0.094
Total Xylenes	1330-20-7	**0.26**	1.6	100	500	mg/kg	<0.0068 U	**2.8 D**	<0.011 U	<0.011 U	<0.0068 U	<0.0071 U	**300 D**	**0.91**	**53 D**	<0.96 U	**44 D**
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	100	500	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 UJ	<0.0023 UJ	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
Trichloroethene (TCE)	79-01-6	**0.47**	0.47	21	200	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 U	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 UJ	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U
Vinyl Chloride	75-01-4	0.02	0.02	0.9	13	mg/kg	<0.0023 U	<0.25 U	<0.0037 U	<0.0036 UJ	<0.0023 U	<0.0024 U	<1.2 U	<0.0039 U	<0.003 U	<0.32 U	<0.0023 U

Notes provided on Page 10.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3F
Remedial Investigation Report
Soil Sample Analytical Results - Block 1833 (J)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	J-EP101	J-EP101	J-EP101	J-EP102	J-EP102	J-EP105	J-EP105	J-EP105	J-EP106	J-EP106	J-EP107
						Sample Name	J-EP101_0-2	J-EP101_10-11	J-EP101_19-20	J-EP102_6-8	DUP18_100821	J-EP105_0-2	J-EP105_5-6	J-EP105_11-12	J-EP106_7-8	J-EP106_19-20	J-EP107_6-7
						Sample Date	09/03/2021	09/03/2021	09/03/2021	10/08/2021	10/08/2021	09/07/2021	09/07/2021	09/07/2021	09/03/2021	09/03/2021	09/08/2021
						Sample Depth	0-2	10-11	19-20	6-8	6-8	0-2	5-6	11-12	7-8	19-20	6-7
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																	
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	NS	mg/kg	<0.0866 U	<0.095 U	<0.126 U	<0.12 U	<0.101 U	<0.428 U	<0.0896 U	<0.0951 U	<0.0955 U	<0.115 U	<0.0908 U
1,2-Diphenylhydrazine	122-66-7	NS	NS	NS	NS	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	<0.0449 U	<0.0477 U	<0.0479 U	<0.0576 U	<0.0455 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.0196 U	<0.0196 U	<0.0196 U	NA	NA	NA	NA	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	NS	mg/kg	<0.0866 U	<0.095 U	<0.126 U	<0.12 U	<0.101 UJ	<0.428 U	<0.0896 U	<0.0951 U	<0.0955 U	<0.115 U	<0.0908 UJ
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	NS	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 UJ	<0.215 U	<0.0449 U	<0.0477 U	<0.0479 U	<0.0576 U	<0.0455 UJ
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	NS	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 UJ	<0.215 U	<0.0449 U	<0.0477 U	<0.0479 U	<0.0576 U	<0.0455 UJ
2,4-Dichlorophenol	120-83-2	NS	NS	NS	NS	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 UJ	<0.215 U	<0.0449 U	<0.0477 U	<0.0479 U	<0.0576 U	<0.0455 UJ
2,4-Dimethylphenol	105-67-9	NS	NS	NS	NS	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 UJ	<0.215 U	<0.0449 U	1.76 D	<0.0479 U	<0.0576 U	<0.0455 UJ
2,4-Dinitrophenol	51-28-5	NS	NS	NS	NS	mg/kg	<0.0866 U	<0.095 U	<0.126 U	<0.12 U	<0.101 UJ	<0.428 U	<0.0896 U	<0.0951 U	<0.0955 U	<0.115 U	<0.0908 UJ
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	NS	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	<0.0449 U	<0.0477 U	<0.0479 U	<0.0576 U	<0.0455 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	NS	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	<0.0449 U	<0.0477 U	<0.0479 U	<0.0576 U	<0.0455 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	NS	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	<0.0449 U	<0.0477 U	<0.0479 U	<0.0576 U	<0.0455 U
2-Chlorophenol	95-57-8	NS	NS	NS	NS	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 UJ	<0.215 U	<0.0449 U	<0.0477 U	<0.0479 U	<0.0576 U	<0.0455 UJ
2-Methylnaphthalene	91-57-6	NS	NS	NS	NS	mg/kg	0.065 JD	17.4 D	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	3.97 D	0.316 D	0.0794 JD	<0.0576 U	3.35 D
2-Methylphenol (o-Cresol)	95-48-7	**0.33**	0.33	100	500	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 UJ	<0.215 U	<0.0449 U	**0.394 D**	<0.0479 U	<0.0576 U	<0.0455 UJ
2-Nitroaniline	88-74-4	NS	NS	NS	NS	mg/kg	<0.0866 U	<0.095 U	<0.126 U	<0.12 U	<0.101 U	<0.428 U	<0.0896 U	<0.0951 U	<0.0955 U	<0.115 U	<0.0908 U
2-Nitrophenol	88-75-5	NS	NS	NS	NS	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 UJ	<0.215 U	<0.0449 U	<0.0477 U	<0.0479 U	<0.0576 U	<0.0455 UJ
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	**0.33**	0.33	100	500	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 UJ	<0.215 U	<0.0449 U	**1.15 D**	<0.0479 U	<0.0576 U	<0.0455 UJ
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	NS	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	<0.0449 U	<0.0477 U	<0.0479 U	<0.0576 U	<0.0455 U
3-Nitroaniline	99-09-2	NS	NS	NS	NS	mg/kg	<0.0866 U	<0.095 U	<0.126 U	<0.12 U	<0.101 U	<0.428 U	<0.0896 U	<0.0951 U	<0.0955 U	<0.115 U	<0.0908 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	NS	mg/kg	<0.0866 U	<0.095 U	<0.126 U	<0.12 U	<0.101 UJ	<0.428 U	<0.0896 U	<0.0951 U	<0.0955 U	<0.115 U	<0.0908 UJ
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	NS	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	<0.0449 U	<0.0477 U	<0.0479 U	<0.0576 U	<0.0455 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	NS	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 UJ	<0.215 U	<0.0449 U	<0.0477 U	<0.0479 U	<0.0576 U	<0.0455 UJ
4-Chloroaniline	106-47-8	NS	NS	NS	NS	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	<0.0449 U	<0.0477 U	<0.0479 U	<0.0576 U	<0.0455 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	NS	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	<0.0449 U	<0.0477 U	<0.0479 U	<0.0576 U	<0.0455 U
4-Nitroaniline	100-01-6	NS	NS	NS	NS	mg/kg	<0.0866 U	<0.095 U	<0.126 U	<0.12 U	<0.101 U	<0.428 U	<0.0896 U	<0.0951 U	<0.0955 U	<0.115 U	<0.0908 U
4-Nitrophenol	100-02-7	NS	NS	NS	NS	mg/kg	<0.0866 U	<0.095 U	<0.126 U	<0.12 U	<0.101 UJ	<0.428 U	<0.0896 U	<0.0951 U	<0.0955 U	<0.115 U	<0.0908 UJ
Acenaphthene	83-32-9	20	98	100	500	mg/kg	<0.0434 U	0.376 D	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	0.237 D	0.189 D	0.108 D	<0.0576 U	1.48 D
Acenaphthylene	208-96-8	100	107	100	500	mg/kg	<0.0434 U	0.483 D	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	0.232 D	0.222 D	0.068 JD	<0.0576 U	0.137 D
Acetophenone	98-86-2	NS	NS	NS	NS	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	<0.0449 U	<0.0477 U	<0.0479 U	<0.0576 U	<0.0455 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	NS	NS	NS	mg/kg	<0.173 U	<0.19 U	<0.252 U	<0.241 U	<0.201 U	<0.858 U	<0.179 U	<0.191 U	<0.191 U	<0.23 U	<0.182 U
Anthracene	120-12-7	100	1000	100	500	mg/kg	0.0989 D	0.679 D	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	0.706 D	0.372 D	0.21 D	<0.0576 U	1.85 D
Atrazine	1912-24-9	NS	NS	NS	NS	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	<0.0449 U	<0.0477 U	<0.0479 U	<0.0576 U	<0.0455 U
Benzaldehyde	100-52-7	NS	NS	NS	NS	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	<0.0449 U	<0.0477 U	<0.0479 U	<0.0576 U	<0.0455 U
Benzidine	92-87-5	NS	NS	NS	NS	mg/kg	<0.173 U	<0.19 U	<0.252 U	<0.241 U	<0.201 U	<0.858 U	<0.179 U	<0.191 U	<0.191 U	<0.23 U	<0.182 U
Benzo(a)anthracene	56-55-3	**1**	1	1	5.6	mg/kg	0.297 D	**1.32 D**	<0.0631 U	0.0615 JD	<0.0504 U	<0.215 U	**1.48 D**	0.847 D	0.727 D	<0.0576 U	**4.3 D**
Benzo(a)pyrene	50-32-8	**1**	22	1	1	mg/kg	0.338 D	**1.48 D**	<0.0631 U	0.076 JD	<0.0504 U	<0.215 U	**1.88 D**	0.918 D	0.934 D	<0.0576 U	**4.27 D**
Benzo(b)fluoranthene	205-99-2	**1**	1.7	1	5.6	mg/kg	0.28 D	**1.42 D**	<0.0631 U	0.0606 JD	<0.0504 U	<0.215 U	**1.98 D**	0.767 D	0.803 D	<0.0576 U	**3.64 D**
Benzo(g,h,i)Perylene	191-24-2	100	1000	100	500	mg/kg	0.224 D	0.87 D	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	1.08 D	0.537 D	0.545 D	<0.0576 U	1.84 D
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	3.9	56	mg/kg	0.219 D	**0.905 D**	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	**1.53 D**	0.71 D	0.649 D	<0.0576 U	**2.29 D**
Benzoic Acid	65-85-0	NS	NS	NS	NS	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	<0.0449 U	<0.0477 U	<0.0479 U	<0.0576 U	<0.0455 U
Benzyl Alcohol	100-51-6	NS	NS	NS	NS	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	<0.0449 U	<0.0477 U	<0.0479 U	<0.0576 U	<0.0455 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	NS	mg/kg	0.126 D	1.63 D	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	6.33 D	0.42 D	0.221 D	<0.0576 U	1.22 D
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	NS	mg/kg	<0.0434 U	0.157 D	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	<0.0449 U	<0.0477 U	<0.0479 U	<0.0576 U	0.124 D
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	NS	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	<0.0449 U	<0.0477 U	<0.0479 U	<0.0576 U	<0.0455 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	NS	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	<0.0449 U	<0.0477 U	<0.0479 U	<0.0576 U	<0.0455 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	NS	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	<0.0449 U	<0.0477 U	<0.0479 U	<0.0576 U	<0.0455 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	NS	mg/kg	0.429 D	89.7 D	<0.0631 U	<0.0603 U	<0.0504 U	0.935 D	32.2 D	17 D	0.286 D	<0.0576 U	26.4 D
Caprolactam	105-60-2	NS	NS	NS	NS	mg/kg	<0.0866 U	<0.095 U	<0.126 U	<0.12 U	<0.101 U	<0.428 U	<0.0896 U	<0.0951 U	<0.0955 U	<0.115 U	<0.0908 U
Carbazole	86-74-8	NS	NS	NS	NS	mg/kg	<0.0434 U	0.0873 JD	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	<0.0449 U	0.147 D	0.108 D	<0.0576 U	0.616 D
Chrysene	218-01-9	**1**	1	3.9	56	mg/kg	0.278 D	**1.26 D**	<0.0631 U	0.0981 JD	<0.0504 U	<0.215 U	**1.5 D**	0.83 D	0.705 D	<0.0576 U	**3.77 D**
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.33	0.56	mg/kg	0.0713 JD	**0.39 D**	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	0.295 D	0.182 D	0.153 D	<0.0576 U	**0.849 D**
Dibenzofuran	132-64-9	7	210	59	350	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	0.148 D	<0.0477 U	<0.0479 U	<0.0576 U	0.629 D
Dibutyl phthalate	84-74-2	NS	NS	NS	NS	mg/kg	<0.0434 U	0.431 D	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	0.754 D	0.367 D	<0.0479 U	<0.0576 U	0.139 D
Diethyl phthalate	84-66-2	NS	NS	NS	NS	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	<0.0449 U	<0.0477 U	<0.0479 U	<0.0576 U	<0.0455 U
Dimethyl phthalate	131-11-3	NS	NS	NS	NS	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	<0.0449 U	<0.0477 U	<0.0479 U	<0.0576 U	<0.0455 U
Dioctyl phthalate	117-84-0	NS	NS	NS	NS	mg/kg	<0.0434 U	17.2 D	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	<0.0449 U	<0.0477 U	<0.0479 U	<0.0576 U	2.35 D
Diphenylamine	122-39-4	NS	NS	NS	NS	mg/kg	<0.0866 U	<0.095 U	<0.126 U	<0.12 U	<0.101 U	<0.428 U	<0.0896 U	<0.0951 U	<0.0955 U	<0.115 U	<0.0908 U
Fluoranthene	206-44-0	100	1000	100	500	mg/kg	0.463 D	2.32 D	<0.0631 U	0.0702 JD	0.0699 JD	0.223 JD	2.85 D	1.61 D	1.35 D	0.119 D	9.06 D
Fluorene	86-73-7	30	386	100	500	mg/kg	<0.0434 U	0.897 D	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	0.311 D	0.222 D	0.0756 JD	<0.0576 U	1.38 D
Hexachlorobenzene	118-74-1	0.33	3.2	1.2	6	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	<0.0449 U	<0.0477 U	<0.0479 U	<0.0576 U	<0.0455 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	<0.0449 U	<0.0477 U	<0.0479 U	<0.0576 U	<0.0455 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	NS	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	<0.0449 U	<0.0477 U	<0.0479 U	<0.0576 U	<0.0455 U
Hexachloroethane	67-72-1	NS	NS	NS	NS	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	<0.0449 U	<0.0477 U	<0.0479 U	<0.0576 U	<0.0455 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	0.5	5.6	mg/kg	0.259 D	**1.1 D**	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	**1.24 D**	**0.578 D**	**0.758 D**	<0.0576 U	**2.59 D**
Isophorone	78-59-1	NS	NS	NS	NS	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	<0.0449 U	<0.0477 U	<0.0479 U	<0.0576 U	<0.0455 U
Naphthalene	91-20-3	**12**	12	100	500	mg/kg	<0.0434 U	11.8 D	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	2.8 D	0.322 D	0.0848 JD	<0.0576 U	2.2 D
Nitrobenzene	98-95-3	NS	NS	NS	NS	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	<0.0449 U	<0.0477 U	<0.0479 U	<0.0576 U	<0.0455 U
n-Nitrosodimethylamine	62-75-9	NS	NS	NS	NS	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	<0.0449 U	<0.0477 U	<0.0479 U	<0.0576 U	<0.0455 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	NS	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	<0.0449 U	<0.0477 U	<0.0479 U	<0.0576 U	<0.0455 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	NS	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	<0.0449 U	<0.0477 U	<0.0479 U	<0.0576 U	<0.0455 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	6.7	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 UJ	<0.215 U	<0.0449 U	<0.0477 U	<0.0479 U	<0.0576 U	<0.0455 UJ
Phenanthrene	85-01-8	100	1000	100	500	mg/kg	0.18 D	2.07 D	<0.0631 U	<0.0603 U	<0.0504 U	<0.215 U	1.54 D	1.06 D	0.722 D	0.212 D	7 D
Phenol	108-95-2	**0.33**	0.33	100	500	mg/kg	<0.0434 U	<0.0476 U	<0.0631 U	<0.0603 U	<0.0504 UJ	<0.215 U	<0.0449 U	**6.56 D**	<0.0479 U	<0.0576 U	<0.0455 UJ
Pyrene	129-00-0	100	1000	100	500	mg/kg	0.441 D	2.9 D	<0.0631 U	0.119 JD	0.0675 JD	0.322 JD	3.05 D	1.81 D	1.2 D	0.0781 JD	7.86 D
Pyridine	110-86-1	NS	NS	NS	NS	mg/kg	<0.173 U	<0.19 U	<0.252 U	<0.241 U	<0.201 U	<0.858 U	<0.179 U	<0.191 U	<0.191 U	<0.23 U	<0.182 U

Notes provided on Page 10.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3F
Remedial Investigation Report
Soil Sample Analytical Results - Block 1833 (J)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	J-EP101	J-EP101	J-EP101	J-EP102	J-EP102	J-EP105	J-EP105	J-EP105	J-EP106	J-EP106	J-EP107
						Sample Name	J-EP101_0-2	J-EP101_10-11	J-EP101_19-20	J-EP102_6-8	DUP18_100821	J-EP105_0-2	J-EP105_5-6	J-EP105_11-12	J-EP106_7-8	J-EP106_19-20	J-EP107_6-7
						Sample Date	09/03/2021	09/03/2021	09/03/2021	10/08/2021	10/08/2021	09/07/2021	09/07/2021	09/07/2021	09/03/2021	09/03/2021	09/08/2021
						Sample Depth	0-2	10-11	19-20	6-8	6-8	0-2	5-6	11-12	7-8	19-20	6-7
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Petroleum Hydrocarbons																	
Total Petroleum Hydrocarbons	TPH	NS	NS	NS	NS	UNKNOWN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides																	
4,4'-DDD	72-54-8	**0.0033**	14	13	92	mg/kg	<0.0017 U	<0.00189 U	<0.0025 U	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	72-55-9	**0.0033**	17	8.9	62	mg/kg	<0.0017 U	<0.00189 U	<0.0025 U	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	50-29-3	**0.0033**	136	7.9	47	mg/kg	<0.0017 U	<0.00189 U	<0.0025 U	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	309-00-2	0.005	0.19	0.097	0.68	mg/kg	<0.0017 U	<0.00189 U	<0.0025 U	NA	NA	NA	NA	NA	NA	NA	NA
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	0.48	3.4	mg/kg	<0.0017 U	<0.00189 U	<0.0025 U	NA	NA	NA	NA	NA	NA	NA	NA
Alpha Chlordane	5103-71-9	0.094	2.9	4.2	24	mg/kg	<0.0017 U	<0.00189 U	<0.0025 U	NA	NA	NA	NA	NA	NA	NA	NA
Alpha Endosulfan	959-98-8	2.4	102	24	200	mg/kg	<0.0017 U	<0.00189 U	<0.0025 U	NA	NA	NA	NA	NA	NA	NA	NA
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	0.36	3	mg/kg	<0.0017 U	<0.00189 U	<0.0025 U	NA	NA	NA	NA	NA	NA	NA	NA
Beta Endosulfan	33213-65-9	2.4	102	24	200	mg/kg	<0.0017 U	<0.00189 U	<0.0025 U	NA	NA	NA	NA	NA	NA	NA	NA
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	NS	mg/kg	<0.034 U	<0.0378 U	<0.05 U	NA	NA	NA	NA	NA	NA	NA	NA
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	100	500	mg/kg	<0.0017 U	<0.00189 U	<0.0025 U	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	60-57-1	**0.005**	0.1	0.2	1.4	mg/kg	<0.0017 U	<0.00189 U	<0.0025 U	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan Sulfate	1031-07-8	2.4	1000	24	200	mg/kg	<0.0017 U	<0.00189 U	<0.0025 U	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	72-20-8	0.014	0.06	11	89	mg/kg	<0.0017 U	<0.00189 U	<0.0025 U	NA	NA	NA	NA	NA	NA	NA	NA
Endrin Aldehyde	7421-93-4	NS	NS	NS	NS	mg/kg	<0.0017 U	<0.00189 U	<0.0025 U	NA	NA	NA	NA	NA	NA	NA	NA
Endrin Ketone	53494-70-5	NS	NS	NS	NS	mg/kg	<0.0017 U	<0.00189 U	<0.0025 U	NA	NA	NA	NA	NA	NA	NA	NA
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	1.3	9.2	mg/kg	<0.0017 U	<0.00189 U	<0.0025 U	NA	NA	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	5566-34-7	NS	NS	NS	NS	mg/kg	<0.0017 U	<0.00189 U	<0.0025 U	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	76-44-8	0.042	0.38	2.1	15	mg/kg	<0.0017 U	<0.00189 U	<0.0025 U	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor Epoxide	1024-57-3	NS	NS	NS	NS	mg/kg	<0.0017 U	<0.00189 U	<0.0025 U	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	72-43-5	NS	NS	NS	NS	mg/kg	<0.0017 U	<0.00189 U	<0.0025 U	NA	NA	NA	NA	NA	NA	NA	NA
Toxaphene	8001-35-2	NS	NS	NS	NS	mg/kg	<0.17 U	<0.189 U	<0.25 U	NA	NA	NA	NA	NA	NA	NA	NA
Herbicides																	
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	NS	mg/kg	<0.0207 U	<0.0229 U	<0.0306 U	NA	NA	NA	NA	NA	NA	NA	NA
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	NS	mg/kg	<0.0207 U	<0.0229 U	<0.0306 U	NA	NA	NA	NA	NA	NA	NA	NA
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	100	500	mg/kg	<0.0207 U	<0.0229 U	<0.0306 U	NA	NA	NA	NA	NA	NA	NA	NA
Polychlorinated Biphenyl																	
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	NS	mg/kg	<0.0172 UJ	<0.0191 U	<0.0253 U	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	NS	mg/kg	<0.0172 UJ	<0.0191 U	<0.0253 U	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	NS	mg/kg	<0.0172 UJ	<0.0191 U	<0.0253 U	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	NS	mg/kg	<0.0172 UJ	0.0589	<0.0253 U	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	NS	mg/kg	0.103 J	<0.0191 U	<0.0253 U	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	NS	mg/kg	<0.0172 UJ	<0.0191 U	<0.0253 U	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	NS	mg/kg	0.0664 J	0.106	<0.0253 U	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	1336-36-3	**0.1**	3.2	1	1	mg/kg	**0.17 J**	**0.165**	<0.0253 U	NA	NA	NA	NA	NA	NA	NA	NA
Metals																	
Aluminum	7429-90-5	NS	NS	NS	NS	mg/kg	6,750	7,770	23,000	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	7440-36-0	NS	NS	NS	NS	mg/kg	<2.62 U	5.21	<3.85 U	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	7440-38-2	13	16	16	16	mg/kg	4.13	5.23	8.01	NA	NA	NA	NA	NA	NA	NA	NA
Barium	7440-39-3	**350**	820	400	400	mg/kg	44.6	**356**	69.8	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	7440-41-7	7.2	47	72	590	mg/kg	<0.052 U	<0.058 U	<0.077 U	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	7440-43-9	**2.5**	7.5	4.3	9.3	mg/kg	0.422	**6.77**	<0.462 U	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	7440-70-2	NS	NS	NS	NS	mg/kg	86,800	18,600	2,240	NA	NA	NA	NA	NA	NA	NA	NA
Chromium, Hexavalent	18540-29-9	1	19	110	400	mg/kg	<0.524 U	<0.585 U	<0.77 U	NA	NA	NA	NA	NA	NA	NA	NA
Chromium, Total	7440-47-3	NS	NS	NS	NS	mg/kg	14.9	191	46.7	NA	NA	NA	NA	NA	NA	NA	NA
Chromium, Trivalent	16065-83-1	**30**	NS	180	1500	mg/kg	14.9	**191**	**46.7**	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	7440-48-4	NS	NS	NS	NS	mg/kg	5.67	10.8	10.2	NA	NA	NA	NA	NA	NA	NA	NA
Copper	7440-50-8	**50**	1720	270	270	mg/kg	35.2	**787**	22.6	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	57-12-5	27	40	27	27	mg/kg	<0.524 U	3.09 J	<0.77 U	NA	NA	NA	NA	NA	NA	NA	NA
Iron	7439-89-6	NS	NS	NS	NS	mg/kg	12,600	81,800	30,900	NA	NA	NA	NA	NA	NA	NA	NA
Lead	7439-92-1	**63**	450	400	1000	mg/kg	56.5	**2,740**	31.1	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	7439-95-4	NS	NS	NS	NS	mg/kg	30,000	4,520	8,510	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	7439-96-5	1600	2000	2000	10000	mg/kg	193	620	364	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	7439-97-6	**0.18**	0.73	0.81	2.8	mg/kg	0.102	**3.61**	**0.239**	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	7440-02-0	**30**	130	310	310	mg/kg	14.3	**170**	24.4	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	7440-09-7	NS	NS	NS	NS	mg/kg	1,180	784	6,210	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	7782-49-2	**3.9**	4	180	1500	mg/kg	**9.4 J**	<2.92 UJ	<3.85 UJ	NA	NA	NA	NA	NA	NA	NA	NA
Silver	7440-22-4	2	8.3	180	1500	mg/kg	<0.524 U	1.77	<0.77 U	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	7440-23-5	NS	NS	NS	NS	mg/kg	453	857	3,710	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	7440-28-0	NS	NS	NS	NS	mg/kg	<2.67 U	<2.92 U	<3.85 U	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	7440-62-2	NS	NS	NS	NS	mg/kg	37.9	20.8	55.1	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	7440-66-6	**109**	2480	10000	10000	mg/kg	78.5	**38,800 D**	80.2	NA	NA	NA	NA	NA	NA	NA	NA
General Chemistry																	
Solids, Percent	SOLID	NS	NS	NS	NS	Percent	95.4	85.5	64.9	68.9	82.4	96.7	92.2	85.9	86.7	71.6	89.8
Perfluorooctanoic acids																	
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA	2991-50-6	NS	NS	NS	NS	mg/kg	<0.000248 U	0.0119	<0.000381 U	NA	NA	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOS	2355-31-9	NS	NS	NS	NS	mg/kg	<0.000248 U	0.00107	<0.000381 U	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	NS	mg/kg	<0.000248 U	0.000631	<0.000381 U	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	NS	mg/kg	<0.000248 U	0.00295	<0.000381 U	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	NS	mg/kg	<0.000248 U	<0.000276 U	<0.000381 U	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	NS	mg/kg	<0.000248 U	<0.000276 U	<0.000381 U	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	NS	mg/kg	<0.000248 U	<0.000276 U	<0.000381 U	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	NS	mg/kg	<0.000248 U	0.000349	<0.000381 U	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	NS	mg/kg	<0.000248 U	0.000686	<0.000381 U	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	NS	mg/kg	<0.000248 U	0.000861	<0.000381 U	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	NS	mg/kg	<0.000248 U	<0.000276 U	<0.000381 U	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	NS	mg/kg	<0.000248 U	0.000878	<0.000381 U	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	NS	mg/kg	<0.000248 U	<0.000276 U	<0.000381 U	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.044	0.44	mg/kg	0.000871	**0.00435**	<0.000381 U	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic Acid (PFOA)	335-67-1	**0.00066**	0.0011	0.033	0.5	mg/kg	<0.000248 U	0.000635	<0.000381 U	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	NS	mg/kg	<0.000248 U	0.000404	<0.000381 U	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	NS	mg/kg	<0.000248 U	<0.000276 U	<0.000381 U	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	NS	mg/kg	<0.000248 U	0.000989	<0.000381 U	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	NS	mg/kg	<0.000248 U	0.00316	<0.000381 U	NA	NA	NA	NA	NA	NA	NA	NA
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FT	39108-34-4	NS	NS	NS	NS	mg/kg	<0.000248 U	0.00126	<0.000381 U	NA	NA	NA	NA	NA	NA	NA	NA
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FT	27619-97-2	NS	NS	NS	NS	mg/kg	<0.000248 U	<0.000276 U	<0.000381 U	NA	NA	NA	NA	NA	NA	NA	NA

Notes provided on Page 10.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3F
Remedial Investigation Report
Soil Sample Analytical Results - Block 1833 (J)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	J-EP107	J-EP108	J-EP109	J-EP110	J-EP110	J-EP112	J-EP112	J-EP113	J-EP113	J-EP113	J-EP114	J-EP116	J-SB101
						Sample Name	J-EP107_19-20	J-EP108_12-13	J-EP109_6-8	J-EP110_20.5-21.5	J-EP110_21.5-22	J-EP112_17-18	J-EP112_23-24	J-EP113_0-2	J-EP113_10-12	J-EP113_18-20	J-EP114_0-2	J-EP116_2-4	J-SB101_0-2
						Sample Date	09/08/2021	10/28/2021	09/03/2021	10/27/2021	10/28/2021	09/08/2021	09/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	09/07/2021
						Sample Depth	19-20	12-13	6-8	20.5-21.5	21.5-22	17-18	23-24	0-2	10-12	18-20	0-2	2-4	0-2
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																			
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	NS	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	500	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	NS	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	NS	NS	NS	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	NS	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 UJ	<0.0021 U	<0.0025 UJ	<0.26 UJ	<0.0021 U
1,1-Dichloroethane	75-34-3	0.27	0.27	26	240	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
1,1-Dichloroethene	75-35-4	0.33	0.33	100	500	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	NS	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	NS	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	NS	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	0.4 JD	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
1,2,4-Trimethylbenzene	95-63-6	**3.6**	3.6	52	190	mg/kg	<0.0039 U	0.086	**430 D**	0.008	0.019	**6.9 D**	<0.0035 U	<0.0021 UJ	**73 D**	0.025	0.004 J	**7 J**	<0.0021 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	NS	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	NS	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
1,2-Dichlorobenzene	95-50-1	**1.1**	1.1	100	500	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	**2 D**	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
1,2-Dichloroethane	107-06-2	0.02	0.02	3.1	30	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	NS	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	**8.4**	8.4	52	190	mg/kg	<0.0039 U	0.0099	**190 D**	0.0033 J	0.007 J	2.8 D	<0.0035 U	<0.0021 UJ	**23 D**	0.011	0.0029 J	2.2 J	<0.0021 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	280	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	130	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.079 U	<0.059 U	<26 U	<0.043 U	<0.081 U	<5.5 U	<0.069 U	<0.042 UJ	<28 U	<0.042 U	<0.051 U	<5.2 UJ	<0.042 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	NS	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
Acetone	67-64-1	**0.05**	0.05	100	500	mg/kg	**0.066**	**0.055**	<2.6 U	0.025	0.049	<0.55 U	0.027	0.027 J	<2.8 U	0.038	0.039	**0.83 J**	0.022
Acrolein	107-02-8	NS	NS	NS	NS	mg/kg	<0.0079 U	<0.0059 U	<2.6 U	<0.0043 U	0.011 J	<0.55 U	<0.0069 U	<0.0042 UJ	<2.8 U	<0.0042 U	<0.0051 U	<0.52 UJ	<0.0042 U
Acrylonitrile	107-13-1	NS	NS	NS	NS	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
Benzene	71-43-2	**0.06**	0.06	4.8	44	mg/kg	<0.0039 U	0.0074	**16 D**	<0.0021 U	<0.004 U	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	0.0031 J	**0.78 J**	<0.0021 U
Bromochloromethane	74-97-5	NS	NS	NS	NS	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
Bromodichloromethane	75-27-4	NS	NS	NS	NS	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
Bromoform	75-25-2	NS	NS	NS	NS	mg/kg	<0.0039 U	<0.003 UJ	<1.3 U	<0.0021 U	<0.004 UJ	<0.28 UJ	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
Bromomethane	74-83-9	NS	NS	NS	NS	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
Carbon Disulfide	75-15-0	NS	NS	NS	NS	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
Carbon Tetrachloride	56-23-5	0.76	0.76	2.4	22	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
Chlorobenzene	108-90-7	1.1	1.1	100	500	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 UJ	<0.0021 U	<0.0025 UJ	<0.26 UJ	<0.0021 U
Chloroethane	75-00-3	NS	NS	NS	NS	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
Chloroform	67-66-3	0.37	0.37	49	350	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
Chloromethane	74-87-3	NS	NS	NS	NS	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 UJ	<0.004 U	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
Cis-1,2-Dichloroethene	156-59-2	**0.25**	0.25	100	500	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	**1.1 D**	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	0.019	<0.26 UJ	<0.0021 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	NS	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
Cyclohexane	110-82-7	NS	NS	NS	NS	mg/kg	<0.0039 U	0.11	5 D	<0.0021 U	<0.004 U	0.57 D	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
Dibromochloromethane	124-48-1	NS	NS	NS	NS	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
Dibromomethane	74-95-3	NS	NS	NS	NS	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 UJ	<0.0021 U	<0.0025 UJ	<0.26 UJ	<0.0021 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	NS	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 UJ	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
Ethylbenzene	100-41-4	**1**	1	41	390	mg/kg	<0.0039 U	0.014	**150 D**	<0.0021 U	<0.004 U	**2.4 D**	<0.0035 U	<0.0021 UJ	**11 D**	0.0029 J	0.029	**4.1 J**	<0.0021 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 UJ	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	NS	mg/kg	<0.0039 U	0.017	15 D	<0.0021 U	<0.004 U	0.42 JD	<0.0035 U	<0.0021 UJ	2.4 JD	<0.0021 U	<0.0025 U	0.46 J	<0.0021 U
M,P-Xylene	179601-23-1	NS	NS	NS	NS	mg/kg	<0.0079 U	0.022	610 D	0.0057 J	0.014 J	7.2 D	<0.0069 U	<0.0042 UJ	49 D	0.01	<0.0051 U	15 J	<0.0042 U
Methyl Acetate	79-20-9	NS	NS	NS	NS	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	2.6 D	<0.0035 U	<0.0021 UJ	9.1 D	<0.0021 U	0.0042 J	<0.26 UJ	<0.0021 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	0.12	0.12	100	500	mg/kg	0.017	0.01	<1.3 U	0.0046	0.0096	<0.28 U	0.0051 J	0.0066 J	<1.4 U	0.0085	<0.0025 U	<0.26 UJ	<0.0021 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	NS	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	0.81 D	<0.0035 U	<0.0021 UJ	3.6 D	0.0028 J	0.01	<0.26 UJ	<0.0021 U
Methylcyclohexane	108-87-2	NS	NS	NS	NS	mg/kg	<0.0039 U	8.3 D	21 D	0.0029 J	<0.004 U	0.52 JD	<0.0035 U	<0.0021 UJ	2.7 JD	<0.0021 U	0.0028 J	1.6 J	<0.0021 U
Methylene Chloride	75-09-2	0.05	0.05	100	500	mg/kg	<0.0079 U	<0.012 U	<2.6 U	0.011	0.0086 J	<0.55 U	<0.0069 U	<0.0042 UJ	<2.8 U	<0.0042 U	<0.0051 U	<0.52 UJ	<0.0042 U
n-Butylbenzene	104-51-8	**12**	12	100	500	mg/kg	<0.0039 U	0.014	**26 J**	<0.0021 U	<0.004 U	1.2 D	<0.0035 U	<0.0021 UJ	4.3 D	0.0029 J	<0.0025 U	0.5 J	<0.0021 U
n-Propylbenzene	103-65-1	**3.9**	3.9	100	500	mg/kg	<0.0039 U	0.015	**56 D**	<0.0021 U	<0.004 U	1.1 D	<0.0035 U	<0.0021 UJ	**8.1 D**	0.0023 J	<0.0025 U	1.2 J	<0.0021 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	NS	mg/kg	<0.0039 U	0.026	130 D	0.0054	0.0082	3.7 D	<0.0035 U	<0.0021 UJ	25 D	0.008	0.0036 J	5 J	<0.0021 U
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	NS	NS	mg/kg	<0.0039 U	0.011	5.9 D	<0.0021 U	<0.004 U	1.6 D	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
Sec-Butylbenzene	135-98-8	11	11	100	500	mg/kg	<0.0039 U	0.011	7.6 D	<0.0021 U	<0.004 U	<0.28 U	<0.0035 U	<0.0021 UJ	1.7 JD	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
Styrene	100-42-5	NS	NS	NS	NS	mg/kg	<0.0039 U	<0.003 U	4.1 D	<0.0021 U	<0.004 U	0.91 D	<0.0035 U	<0.0021 UJ	5.7 D	<0.0021 U	0.0077	0.4 J	<0.0021 U
T-Butylbenzene	98-06-6	5.9	5.9	100	500	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
Tert-Butyl Alcohol	75-65-0	NS	NS	NS	NS	mg/kg	0.073	0.34 J	<1.3 U	0.07	0.012	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 U	0.012 J	<0.0025 U	<0.26 UJ	<0.0021 U
Tert-Butyl Methyl Ether	1634-04-4	**0.93**	0.93	100	500	mg/kg	0.016	0.012	**2.2 JD**	0.034	0.0052 J	<0.28 U	0.0037 J	<0.0021 UJ	<1.4 U	0.004 J	0.014	<0.26 UJ	<0.0021 U
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	19	150	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	0.57 D	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	0.011	<0.26 UJ	<0.0021 U
Toluene	108-88-3	**0.7**	0.7	100	500	mg/kg	<0.0039 U	0.0079	**55 D**	<0.0021 U	<0.004 U	**3.5 D**	<0.0035 U	<0.0021 UJ	**14 D**	0.003 J	0.0097	**7.8 J**	<0.0021 U
Total Xylenes	1330-20-7	**0.26**	1.6	100	500	mg/kg	<0.012 U	0.048	**740 D**	0.011 J	0.022 J	**11 D**	<0.01 U	<0.0064 UJ	**74 D**	0.018	0.0084 J	**20 J**	<0.0062 U
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	100	500	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	NS	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 UJ	<0.0021 U	<0.0025 UJ	<0.26 UJ	<0.0021 U
Trichloroethene (TCE)	79-01-6	**0.47**	0.47	21	200	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	**0.62 D**	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	0.0047 J	<0.26 UJ	<0.0021 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	NS	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U
Vinyl Chloride	75-01-4	0.02	0.02	0.9	13	mg/kg	<0.0039 U	<0.003 U	<1.3 U	<0.0021 U	<0.004 U	<0.28 U	<0.0035 U	<0.0021 UJ	<1.4 U	<0.0021 U	<0.0025 U	<0.26 UJ	<0.0021 U

Notes provided on Page 10.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3F
Remedial Investigation Report
Soil Sample Analytical Results - Block 1833 (J)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	J-EP107	J-EP108	J-EP109	J-EP110	J-EP110	J-EP112	J-EP112	J-EP113	J-EP113	J-EP113	J-EP114	J-EP116	J-SB101
						Sample Name	J-EP107_19-20	J-EP108_12-13	J-EP109_6-8	J-EP110_20.5-21.5	J-EP110_21.5-22	J-EP112_17-18	J-EP112_23-24	J-EP113_0-2	J-EP113_10-12	J-EP113_18-20	J-EP114_0-2	J-EP116_2-4	J-SB101_0-2
						Sample Date	09/08/2021	10/28/2021	09/03/2021	10/27/2021	10/28/2021	09/08/2021	09/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	09/07/2021
						Sample Depth	19-20	12-13	6-8	20.5-21.5	21.5-22	17-18	23-24	0-2	10-12	18-20	0-2	2-4	0-2
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																			
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	NS	mg/kg	<0.121 U	<0.107 U	<0.0886 U	<0.0962 U	<0.141 U	<0.104 U	<0.121 U	<0.0877 U	<0.088 UJ	<0.0998 U	<0.0908 U	<0.0902 U	<0.0884 U
1,2-Diphenylhydrazine	122-66-7	NS	NS	NS	NS	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.0194 U	<0.0198 U	<0.0183 U	NA	<0.0194 U	<0.0192 U
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	NS	mg/kg	<0.121 U	<0.107 U	<0.0886 U	<0.0962 U	<0.141 U	<0.104 U	<0.121 U	<0.0877 U	<0.088 UJ	<0.0998 U	<0.0908 U	<0.0902 U	<0.0884 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	NS	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	NS	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	NS	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	NS	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	NS	mg/kg	<0.121 U	<0.107 U	<0.0886 U	<0.0962 U	<0.141 U	<0.104 U	<0.121 U	<0.0877 U	<0.088 UJ	<0.0998 U	<0.0908 U	<0.0902 U	<0.0884 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	NS	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	NS	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	NS	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
2-Chlorophenol	95-57-8	NS	NS	NS	NS	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	NS	mg/kg	<0.0606 U	0.284 D	20.4 D	0.0977 D	<0.0708 U	0.486 D	<0.0607 U	<0.044 U	2.1 J	0.075 JD	0.294 D	0.0498 JD	<0.0443 U
2-Methylphenol (o-Cresol)	95-48-7	**0.33**	0.33	100	500	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
2-Nitroaniline	88-74-4	NS	NS	NS	NS	mg/kg	<0.121 U	<0.107 U	<0.0886 U	<0.0962 U	<0.141 U	<0.104 U	<0.121 U	<0.0877 U	<0.088 UJ	<0.0998 U	<0.0908 U	<0.0902 U	<0.0884 U
2-Nitrophenol	88-75-5	NS	NS	NS	NS	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	**0.33**	0.33	100	500	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	**0.456 D**	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	NS	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
3-Nitroaniline	99-09-2	NS	NS	NS	NS	mg/kg	<0.121 U	<0.107 U	<0.0886 U	<0.0962 U	<0.141 U	<0.104 U	<0.121 U	<0.0877 U	<0.088 UJ	<0.0998 U	<0.0908 U	<0.0902 U	<0.0884 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	NS	mg/kg	<0.121 U	<0.107 U	<0.0886 U	<0.0962 U	<0.141 U	<0.104 U	<0.121 U	<0.0877 U	<0.088 UJ	<0.0998 U	<0.0908 U	<0.0902 U	<0.0884 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	NS	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	NS	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	<0.0441 UJ	0.0519 JD	<0.0455 U	<0.0452 U	<0.0443 U
4-Chloroaniline	106-47-8	NS	NS	NS	NS	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	NS	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
4-Nitroaniline	100-01-6	NS	NS	NS	NS	mg/kg	<0.121 U	<0.107 U	<0.0886 U	<0.0962 U	<0.141 U	<0.104 U	<0.121 U	<0.0877 U	<0.088 UJ	<0.0998 U	<0.0908 U	<0.0902 U	<0.0884 U
4-Nitrophenol	100-02-7	NS	NS	NS	NS	mg/kg	<0.121 U	<0.107 U	<0.0886 U	<0.0962 U	<0.141 U	<0.104 U	<0.121 U	<0.0877 U	<0.088 UJ	<0.0998 U	<0.0908 U	<0.0902 U	<0.0884 U
Acenaphthene	83-32-9	20	98	100	500	mg/kg	<0.0606 U	0.133 D	0.37 D	<0.0482 U	<0.0708 U	0.975 D	<0.0607 U	<0.044 U	0.0893 J	<0.05 U	0.275 D	0.0519 JD	<0.0443 U
Acenaphthylene	208-96-8	100	107	100	500	mg/kg	<0.0606 U	0.0588 JD	0.2 D	0.17 D	<0.0708 U	0.143 D	<0.0607 U	<0.044 U	0.071 J	<0.05 U	0.224 D	<0.0452 U	0.105 D
Acetophenone	98-86-2	NS	NS	NS	NS	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	NS	NS	NS	mg/kg	<0.242 U	<0.214 U	<0.177 U	<0.193 U	<0.283 U	<0.208 U	<0.242 U	<0.176 U	<0.176 UJ	<0.2 U	<0.182 U	<0.181 U	<0.177 U
Anthracene	120-12-7	100	1000	100	500	mg/kg	0.0773 JD	0.19 D	0.517 D	0.159 D	<0.0708 U	0.635 D	<0.0607 U	<0.044 U	0.203 J	0.0527 JD	0.565 D	0.057 JD	0.0904 D
Atrazine	1912-24-9	NS	NS	NS	NS	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	0.0922 D	<0.0452 U	<0.0443 U
Benzaldehyde	100-52-7	NS	NS	NS	NS	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
Benzidine	92-87-5	NS	NS	NS	NS	mg/kg	<0.242 U	<0.214 U	<0.177 U	<0.193 U	<0.283 U	<0.208 U	<0.242 U	<0.176 U	<0.176 UJ	<0.2 U	<0.182 U	<0.181 U	<0.177 U
Benzo(a)anthracene	56-55-3	**1**	1	1	5.6	mg/kg	0.199 D	0.359 D	**1.21 D**	0.293 D	<0.0708 U	0.781 D	<0.0607 U	0.172 D	0.329 J	0.112 D	**2.05 D**	0.134 D	0.322 D
Benzo(a)pyrene	50-32-8	**1**	22	1	1	mg/kg	0.19 D	0.372 D	0.985 D	0.301 D	<0.0708 U	0.716 D	<0.0607 U	0.212 D	0.259 J	0.111 D	**2.44 D**	0.142 D	0.365 D
Benzo(b)fluoranthene	205-99-2	**1**	1.7	1	5.6	mg/kg	0.147 D	0.315 D	**1.21 D**	0.245 D	<0.0708 U	0.645 D	<0.0607 U	0.192 D	0.302 J	0.087 JD	**2.46 D**	0.128 D	0.33 D
Benzo(g,h,i)Perylene	191-24-2	100	1000	100	500	mg/kg	0.0918 JD	0.204 D	0.595 D	0.183 D	<0.0708 U	0.35 D	<0.0607 U	0.167 D	0.162 J	0.0527 JD	1.17 D	0.0772 JD	0.244 D
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	3.9	56	mg/kg	0.136 D	0.32 D	0.685 D	0.232 D	<0.0708 U	0.431 D	<0.0607 U	0.17 D	0.208 J	0.0958 JD	**2.11 D**	0.112 D	0.305 D
Benzoic Acid	65-85-0	NS	NS	NS	NS	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
Benzyl Alcohol	100-51-6	NS	NS	NS	NS	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	0.0532 JD	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	NS	mg/kg	<0.0606 U	<0.0535 U	3.43 D	<0.0482 U	<0.0708 U	2.1 D	<0.0607 U	<0.044 U	15.1 D	0.34 D	0.858 D	<0.0452 U	0.271 D
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	NS	mg/kg	<0.0606 U	<0.0535 U	0.397 D	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	NS	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	NS	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	NS	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	NS	mg/kg	<0.0606 U	0.333 D	78.3 D	0.0792 JD	<0.0708 U	18.3 D	<0.0607 U	0.228 J	12.1 D	0.688 BD	12.5 D	0.218 J	0.271 D
Caprolactam	105-60-2	NS	NS	NS	NS	mg/kg	<0.121 U	<0.107 U	<0.0886 U	<0.0962 U	<0.141 U	<0.104 U	<0.121 U	<0.0877 U	<0.088 UJ	<0.0998 U	<0.0908 U	<0.0902 U	<0.0884 U
Carbazole	86-74-8	NS	NS	NS	NS	mg/kg	<0.0606 U	0.0725 JD	0.218 D	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	0.09 J	<0.05 U	0.213 D	<0.0452 U	<0.0443 U
Chrysene	218-01-9	**1**	1	3.9	56	mg/kg	0.184 D	0.413 D	**1.15 D**	0.301 D	<0.0708 U	0.733 D	<0.0607 U	0.196 D	0.369 J	0.105 D	**2.02 D**	0.172 D	0.364 D
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.33	0.56	mg/kg	<0.0606 U	0.081 JD	0.175 D	0.0623 JD	<0.0708 U	0.102 JD	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	**0.514 D**	<0.0452 U	0.0813 JD
Dibenzofuran	132-64-9	7	210	59	350	mg/kg	<0.0606 U	0.0563 JD	0.241 D	<0.0482 U	<0.0708 U	0.296 D	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
Dibutyl phthalate	84-74-2	NS	NS	NS	NS	mg/kg	<0.0606 U	<0.0535 U	1.03 D	<0.0482 U	<0.0708 U	0.52 D	<0.0607 U	<0.044 U	3.34 D	0.101 D	0.13 D	<0.0452 U	<0.0443 U
Diethyl phthalate	84-66-2	NS	NS	NS	NS	mg/kg	<0.0606 U	0.379 D	0.0942 D	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
Dimethyl phthalate	131-11-3	NS	NS	NS	NS	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
Dioctyl phthalate	117-84-0	NS	NS	NS	NS	mg/kg	<0.0606 U	<0.0535 U	4.2 D	<0.0482 U	<0.0708 U	0.308 D	<0.0607 U	<0.044 U	0.737 J	<0.05 U	1.19 D	<0.0452 U	<0.0443 U
Diphenylamine	122-39-4	NS	NS	NS	NS	mg/kg	<0.121 U	<0.107 U	<0.0886 U	<0.0962 U	<0.141 U	<0.104 U	<0.121 U	<0.0877 U	<0.088 UJ	<0.0998 U	<0.0908 U	<0.0902 U	<0.0884 U
Fluoranthene	206-44-0	100	1000	100	500	mg/kg	0.438 D	0.856 D	2.7 D	0.546 D	<0.0708 U	1.97 D	<0.0607 U	0.238 D	0.845 J	0.207 D	3.61 D	0.208 D	0.507 D
Fluorene	86-73-7	30	386	100	500	mg/kg	<0.0606 U	0.156 D	0.704 D	0.0969 D	<0.0708 U	0.949 D	<0.0607 U	<0.044 U	0.217 J	<0.05 U	0.42 D	0.049 JD	<0.0443 U
Hexachlorobenzene	118-74-1	0.33	3.2	1.2	6	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	NS	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
Hexachloroethane	67-72-1	NS	NS	NS	NS	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	0.5	5.6	mg/kg	0.131 D	0.232 D	**0.698 D**	0.203 D	<0.0708 U	0.431 D	<0.0607 U	0.131 D	0.183 J	0.0503 JD	**1.62 D**	0.062 JD	0.244 D
Isophorone	78-59-1	NS	NS	NS	NS	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
Naphthalene	91-20-3	**12**	12	100	500	mg/kg	<0.0606 U	0.26 D	**19.6 D**	0.0954 JD	<0.0708 U	0.313 D	<0.0607 U	<0.044 U	1.55 J	0.0686 JD	0.177 D	0.0728 JD	0.0466 JD
Nitrobenzene	98-95-3	NS	NS	NS	NS	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
n-Nitrosodimethylamine	62-75-9	NS	NS	NS	NS	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	NS	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	NS	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	6.7	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	<0.0521 U	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
Phenanthrene	85-01-8	100	1000	100	500	mg/kg	0.302 D	0.731 D	2.33 D	0.36 D	<0.0708 U	2.17 D	<0.0607 U	0.123 D	0.816 J	0.192 D	1.34 D	0.194 D	0.197 D
Phenol	108-95-2	**0.33**	0.33	100	500	mg/kg	<0.0606 U	<0.0535 U	<0.0444 U	<0.0482 U	<0.0708 U	0.296 D	<0.0607 U	<0.044 U	<0.0441 UJ	<0.05 U	<0.0455 U	<0.0452 U	<0.0443 U
Pyrene	129-00-0	100	1000	100	500	mg/kg	0.363 D	0.735 D	2.64 D	0.552 D	<0.0708 U	1.96 D	<0.0607 U	0.315 D	0.668 J	0.238 D	3.8 D	0.264 D	0.584 D
Pyridine	110-86-1	NS	NS	NS	NS	mg/kg	<0.242 U	<0.214 U	<0.177 U	<0.193 U	<0.283 U	<0.208 U	<0.242 U	<0.176 U	<0.176 UJ	<0.2 U	<0.182 U	<0.181 U	<0.177 U

Notes provided on Page 10.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3F
Remedial Investigation Report
Soil Sample Analytical Results - Block 1833 (J)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	J-EP107	J-EP108	J-EP109	J-EP110	J-EP110	J-EP112	J-EP112	J-EP113	J-EP113	J-EP113	J-EP114	J-EP116	J-SB101
						Sample Name	J-EP107_19-20	J-EP108_12-13	J-EP109_6-8	J-EP110_20.5-21.5	J-EP110_21.5-22	J-EP112_17-18	J-EP112_23-24	J-EP113_0-2	J-EP113_10-12	J-EP113_18-20	J-EP114_0-2	J-EP116_2-4	J-SB101_0-2
						Sample Date	09/08/2021	10/28/2021	09/03/2021	10/27/2021	10/28/2021	09/08/2021	09/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	09/07/2021
						Sample Depth	19-20	12-13	6-8	20.5-21.5	21.5-22	17-18	23-24	0-2	10-12	18-20	0-2	2-4	0-2
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Petroleum Hydrocarbons																			
Total Petroleum Hydrocarbons	TPH	NS	NS	NS	NS	UNKNOWN	NA	NA	NA	NA	NA	<20 U	NA	NA	NA	NA	NA	NA	NA
Pesticides																			
4,4'-DDD	72-54-8	**0.0033**	14	13	92	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00172 U	<0.00176 U	<0.00196 U	NA	<0.00176 U	**0.0149 D**
4,4'-DDE	72-55-9	**0.0033**	17	8.9	62	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00172 U	<0.00176 U	<0.00196 U	NA	<0.00176 U	**0.0239 D**
4,4'-DDT	50-29-3	**0.0033**	136	7.9	47	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00172 U	<0.00176 U	<0.00196 U	NA	<0.00176 U	<0.00177 U
Aldrin	309-00-2	0.005	0.19	0.097	0.68	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00172 U	<0.00176 U	<0.00196 U	NA	<0.00176 U	<0.00177 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	0.48	3.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00172 U	<0.00176 U	<0.00196 U	NA	<0.00176 U	<0.00177 U
Alpha Chlordane	5103-71-9	0.094	2.9	4.2	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00172 U	<0.00176 U	<0.00196 U	NA	<0.00176 U	0.0102 D
Alpha Endosulfan	959-98-8	2.4	102	24	200	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00172 U	<0.00176 U	<0.00196 U	NA	<0.00176 U	<0.00177 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	0.36	3	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00172 U	<0.00176 U	<0.00196 U	NA	<0.00176 U	<0.00177 U
Beta Endosulfan	33213-65-9	2.4	102	24	200	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00172 U	<0.00176 U	<0.00196 U	NA	<0.00176 U	<0.00177 U
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.0345 U	<0.0352 U	<0.0391 U	NA	<0.0352 U	0.0788 D
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	100	500	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00172 U	<0.00176 U	<0.00196 U	NA	<0.00176 U	<0.00177 U
Dieldrin	60-57-1	**0.005**	0.1	0.2	1.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00172 U	<0.00176 U	<0.00196 U	NA	<0.00176 U	**0.0163 D**
Endosulfan Sulfate	1031-07-8	2.4	1000	24	200	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00172 U	<0.00176 U	<0.00196 U	NA	<0.00176 U	<0.00177 U
Endrin	72-20-8	0.014	0.06	11	89	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00172 U	<0.00176 U	<0.00196 U	NA	<0.00176 U	<0.00177 U
Endrin Aldehyde	7421-93-4	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00172 U	<0.00176 U	<0.00196 U	NA	<0.00176 U	<0.00177 U
Endrin Ketone	53494-70-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00172 U	<0.00176 U	<0.00196 U	NA	<0.00176 U	<0.00177 U
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	1.3	9.2	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00172 U	<0.00176 U	<0.00196 U	NA	<0.00176 U	<0.00177 U
Gamma-Chlordane	5566-34-7	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00172 U	<0.00176 U	<0.00196 U	NA	<0.00176 U	0.0144 D
Heptachlor	76-44-8	0.042	0.38	2.1	15	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00172 U	<0.00176 U	<0.00196 U	NA	<0.00176 U	<0.00177 U
Heptachlor Epoxide	1024-57-3	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00172 U	<0.00176 U	<0.00196 U	NA	<0.00176 U	<0.00177 U
Methoxychlor	72-43-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00172 U	<0.00176 U	<0.00196 U	NA	<0.00176 U	<0.00177 U
Toxaphene	8001-35-2	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.172 U	<0.176 U	<0.196 U	NA	<0.176 U	<0.177 U
Herbicides																			
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.0175 U	<0.0175 U	<0.0239 U	NA	<0.0216 U	<0.0214 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.0175 U	<0.0175 U	<0.0239 U	NA	<0.0216 U	<0.0214 U
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	100	500	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.0175 U	<0.0175 U	<0.0239 U	NA	<0.0216 U	<0.0214 U
Polychlorinated Biphenyl																			
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.0174 U	<0.355 U	<0.0197 U	NA	<0.0178 U	<0.0179 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.0174 U	<0.355 U	<0.0197 U	NA	<0.0178 U	<0.0179 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.0174 U	<0.355 U	<0.0197 U	NA	<0.0178 U	<0.0179 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.0174 U	<0.355 U	<0.0197 U	NA	<0.0178 U	0.0296
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.0174 U	10.6 D	0.0449	NA	0.0866	<0.0179 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.0174 U	<0.355 U	<0.0197 U	NA	<0.0178 U	<0.0179 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.0174 U	3.32 D	<0.0197 U	NA	0.022	0.126
Total PCBs	1336-36-3	**0.1**	3.2	1	1	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.0174 U	**13.9 D**	0.0449	NA	**0.109**	**0.156**
Metals																			
Aluminum	7429-90-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	6,820	4,160	11,000	NA	5,460	7,210
Antimony	7440-36-0	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<2.65 U	23.3 J	3.75	NA	<2.72 UJ	<2.7 U
Arsenic	7440-38-2	13	16	16	16	mg/kg	NA	NA	NA	NA	NA	NA	NA	2.52	12.3 J	2.38	NA	4.12	6.15
Barium	7440-39-3	**350**	820	400	400	mg/kg	NA	NA	NA	NA	NA	NA	NA	61.8	**1,110**	123	NA	36.9	**689**
Beryllium	7440-41-7	7.2	47	72	590	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.053 U	<0.053 U	<0.06 U	NA	<0.054 U	<0.054 U
Cadmium	7440-43-9	**2.5**	7.5	4.3	9.3	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.446	**35.6**	0.714	NA	0.353	2.39
Calcium	7440-70-2	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	46,000 B	21,800 B	3,630 B	NA	82,100	58,400 B
Chromium, Hexavalent	18540-29-9	1	19	110	400	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.829 U	<0.534 U	<0.602 U	NA	<0.544 U	<0.541 U
Chromium, Total	7440-47-3	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	18.1	151	24.2	NA	11	17.1
Chromium, Trivalent	16065-83-1	**30**	NS	180	1500	mg/kg	NA	NA	NA	NA	NA	NA	NA	18.1	**151**	24.2	NA	11	17.1
Cobalt	7440-48-4	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	6.08	15.9	7.42	NA	5.53	5.22
Copper	7440-50-8	**50**	1720	270	270	mg/kg	NA	NA	NA	NA	NA	NA	NA	42.2	**404 J**	47.8	NA	**63.3 J**	**216**
Cyanide	57-12-5	27	40	27	27	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1	2.45	4.67	NA	<0.544 U	<0.541 U
Iron	7439-89-6	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	15,700	130,000 D	18,500	NA	16,000	23,400
Lead	7439-92-1	**63**	450	400	1000	mg/kg	NA	NA	NA	NA	NA	NA	NA	**73.3**	**1,740**	**198**	NA	31.9 J	**294**
Magnesium	7439-95-4	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	13,400	6,130	2,370	NA	35,600	20,500
Manganese	7439-96-5	1600	2000	2000	10000	mg/kg	NA	NA	NA	NA	NA	NA	NA	219	590	162	NA	200 J	285
Mercury	7439-97-6	**0.18**	0.73	0.81	2.8	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0911	**1.47**	**1.62**	NA	0.0421	**0.407**
Nickel	7440-02-0	**30**	130	310	310	mg/kg	NA	NA	NA	NA	NA	NA	NA	11.7 J	**254 J**	16.1	NA	8.39	26.1
Potassium	7440-09-7	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	1,180	699	772 B	NA	1,140	1,200 B
Selenium	7782-49-2	**3.9**	4	180	1500	mg/kg	NA	NA	NA	NA	NA	NA	NA	<2.65 U	<2.67 UJ	<3.01 U	NA	**4.43 J**	<2.7 U
Silver	7440-22-4	2	8.3	180	1500	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.529 U	<0.534 UJ	<0.602 U	NA	<0.544 UJ	<0.541 U
Sodium	7440-23-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	621	4,520	715	NA	501	885
Thallium	7440-28-0	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<2.65 U	5.2	<3.01 U	NA	<2.72 U	<2.7 U
Vanadium	7440-62-2	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	30.9	29.2	27	NA	43.4	31.6
Zinc	7440-66-6	**109**	2480	10000	10000	mg/kg	NA	NA	NA	NA	NA	NA	NA	96.4	**5,680 D**	**268**	NA	43.2 J	**492**
General Chemistry																			
Solids, Percent	SOLID	NS	NS	NS	NS	Percent	66.9	77.4	93.2	85.8	58.3	78.2	67.3	94.4	93.6	83	91.5	91.8	92.5
Perfluorooctanoic acids																			
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA	2991-50-6	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	0.00181 J	<0.000256 U	NA	0.000966	<0.000242 U
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOS	2355-31-9	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	<0.000246 U	<0.000256 U	NA	<0.00026 U	<0.000242 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	0.000357	0.000851	NA	<0.00026 U	<0.000242 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	0.00718 J	0.000676	NA	<0.00026 U	0.00142
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	<0.000246 U	<0.000256 U	NA	<0.00026 U	<0.000242 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	<0.000246 U	<0.000256 U	NA	<0.00026 U	<0.000242 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	<0.000246 U	<0.000256 U	NA	<0.00026 U	<0.000242 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	<0.000246 U	<0.000256 U	NA	<0.00026 U	<0.000242 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	0.0003	<0.000256 U	NA	<0.00026 U	<0.000242 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	<0.000246 U	<0.000256 U	NA	0.000403	<0.000242 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	0.000759	<0.000256 U	NA	<0.00026 U	<0.000242 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	<0.000246 U	<0.000256 U	NA	<0.00026 U	<0.000242 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	<0.000246 U	<0.000256 U	NA	<0.00026 U	<0.000242 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.044	0.44	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.000495	**0.00185**	0.000361	NA	**0.00163**	0.000592
Perfluorooctanoic Acid (PFOA)	335-67-1	**0.00066**	0.0011	0.033	0.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.000282	**0.00109**	<0.000256 U	NA	**0.0015**	<0.000242 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	0.00108	<0.000256 U	NA	<0.00026 U	<0.000242 U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	<0.000246 U	<0.000256 U	NA	<0.00026 U	<0.000242 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	<0.000246 U	<0.000256 U	NA	<0.00026 U	<0.000242 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	0.000474	<0.000256 U	NA	<0.00026 U	<0.000242 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FT	39108-34-4	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	<0.000246 U	<0.000256 U	NA	0.00033	<0.000242 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FT	27619-97-2	NS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	<0.000246 U	<0.000256 U	NA	<0.00026 U	<0.000242 U

Notes provided on Page 10.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3F
Remedial Investigation Report
Soil Sample Analytical Results - Block 1833 (J)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	J-SB101	J-SB101	J-SB102	J-SB102	J-SB102	J-SB102	J-SB103	J-SB103	J-SB103	J-SB103	J-SB103
						Sample Name	J-SB101_9.5-10.5	J-SB101_11-12	J-SB102_0-2	SBDUP01_090721	J-SB102_7-8	J-SB102_11-12	J-SB103_0-2	J-SB103_17-18	J-SB103_19-20	J-SB103_0-2	J-SB103_19-20
						Sample Date	09/07/2021	09/07/2021	09/07/2021	09/07/2021	09/07/2021	09/07/2021	09/03/2021	09/03/2021	09/03/2021	09/07/2021	09/07/2021
						Sample Depth	9.5-10.5	11-12	0-2	0-2	7-8	11-12	0-2	17-18	19-20	0-2	19-20
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																	
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	500	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
1,1-Dichloroethane	75-34-3	0.27	0.27	26	240	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
1,1-Dichloroethene	75-35-4	0.33	0.33	100	500	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
1,2,4-Trimethylbenzene	95-63-6	**3.6**	3.6	52	190	mg/kg	<0.0036 U	<0.0043 U	0.017	0.018	**13 D**	<0.0028 U	0.0076	<0.0023 U	<0.0036 U	NA	NA
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
1,2-Dichlorobenzene	95-50-1	**1.1**	1.1	100	500	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	**1.9 D**	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
1,2-Dichloroethane	107-06-2	0.02	0.02	3.1	30	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
1,2-Dichloropropane	78-87-5	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	**8.4**	8.4	52	190	mg/kg	<0.0036 U	<0.0043 U	0.037 J	0.0089 J	6 D	<0.0028 U	0.0028 J	<0.0023 U	<0.0036 U	NA	NA
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	280	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	130	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.072 U	<0.087 U	<0.05 U	<0.055 U	<5.4 U	<0.057 U	<0.049 U	<0.045 U	<0.072 U	NA	NA
2-Hexanone (MBK)	591-78-6	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
Acetone	67-64-1	**0.05**	0.05	100	500	mg/kg	**0.067**	0.041	0.031 J	<0.0055 UJ	<0.54 U	**0.069**	**0.074**	0.023	0.049	NA	NA
Acrolein	107-02-8	NS	NS	NS	NS	mg/kg	<0.0072 U	<0.0087 U	<0.005 U	<0.0055 U	<0.54 U	0.014	<0.0049 U	<0.0045 U	<0.0072 U	NA	NA
Acrylonitrile	107-13-1	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
Benzene	71-43-2	**0.06**	0.06	4.8	44	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	**0.79 D**	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
Bromochloromethane	74-97-5	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
Bromodichloromethane	75-27-4	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
Bromoform	75-25-2	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
Bromomethane	74-83-9	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 UJ	<0.0023 U	<0.0036 U	NA	NA
Carbon Disulfide	75-15-0	NS	NS	NS	NS	mg/kg	0.019	0.0095	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	0.0043 J	0.004 J	<0.0036 U	NA	NA
Carbon Tetrachloride	56-23-5	0.76	0.76	2.4	22	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
Chlorobenzene	108-90-7	1.1	1.1	100	500	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	0.28 JD	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
Chloroethane	75-00-3	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
Chloroform	67-66-3	0.37	0.37	49	350	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
Chloromethane	74-87-3	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
Cis-1,2-Dichloroethene	156-59-2	**0.25**	0.25	100	500	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
Cyclohexane	110-82-7	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	0.43 JD	<0.0028 U	<0.0024 U	0.0075	<0.0036 U	NA	NA
Dibromochloromethane	124-48-1	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
Dibromomethane	74-95-3	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
Dichlorodifluoromethane	75-71-8	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
Ethylbenzene	100-41-4	**1**	1	41	390	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	**4.1 D**	<0.0028 U	0.012	<0.0023 U	<0.0036 U	NA	NA
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	0.81 D	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
M,P-Xylene	179601-23-1	NS	NS	NS	NS	mg/kg	<0.0072 U	<0.0087 U	0.0086 J	0.011	16 D	<0.0057 U	0.0081 J	<0.0045 U	<0.0072 U	NA	NA
Methyl Acetate	79-20-9	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	0.0037 J	2.1 D	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
Methyl Ethyl Ketone (2-Butanone)	78-93-3	0.12	0.12	100	500	mg/kg	<0.0036 U	0.0078 J	0.003 J	<0.0027 U	<0.27 U	0.015	0.015	0.0042 J	0.0088	NA	NA
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	0.0073	<0.0023 U	<0.0036 U	NA	NA
Methylcyclohexane	108-87-2	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0043 U	0.0055	<0.0027 U	2.2 D	<0.0028 U	<0.0024 U	0.013	<0.0036 U	NA	NA
Methylene Chloride	75-09-2	0.05	0.05	100	500	mg/kg	<0.0072 U	<0.0087 U	<0.005 U	<0.0055 U	<0.54 U	<0.0057 U	<0.0049 U	<0.0045 U	<0.0072 U	NA	NA
n-Butylbenzene	104-51-8	**12**	12	100	500	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	0.73 D	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
n-Propylbenzene	103-65-1	**3.9**	3.9	100	500	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	2.2 D	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0043 U	0.012 J	0.0064 J	7.6 D	<0.0028 U	0.0066	<0.0023 U	<0.0036 U	NA	NA
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	0.46 JD	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
Sec-Butylbenzene	135-98-8	11	11	100	500	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	0.44 JD	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
Styrene	100-42-5	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	0.013	<0.0023 U	<0.0036 U	NA	NA
T-Butylbenzene	98-06-6	5.9	5.9	100	500	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
Tert-Butyl Alcohol	75-65-0	NS	NS	NS	NS	mg/kg	0.015	0.0094	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	0.17	NA	NA
Tert-Butyl Methyl Ether	1634-04-4	**0.93**	0.93	100	500	mg/kg	<0.0036 U	0.015	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	0.01	0.014	0.016	NA	NA
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	19	150	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
Toluene	108-88-3	**0.7**	0.7	100	500	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	**3.8 D**	<0.0028 U	0.0054	<0.0023 U	<0.0036 U	NA	NA
Total Xylenes	1330-20-7	**0.26**	1.6	100	500	mg/kg	<0.011 U	<0.013 U	0.021	0.017	**23 D**	<0.0085 U	0.015	<0.0068 U	<0.011 U	NA	NA
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	100	500	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
Trichloroethene (TCE)	79-01-6	**0.47**	0.47	21	200	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
Trichlorofluoromethane	75-69-4	NS	NS	NS	NS	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA
Vinyl Chloride	75-01-4	0.02	0.02	0.9	13	mg/kg	<0.0036 U	<0.0043 U	<0.0025 U	<0.0027 U	<0.27 U	<0.0028 U	<0.0024 U	<0.0023 U	<0.0036 U	NA	NA

Notes provided on Page 10.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3F
Remedial Investigation Report
Soil Sample Analytical Results - Block 1833 (J)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	J-SB101	J-SB101	J-SB102	J-SB102	J-SB102	J-SB102	J-SB103	J-SB103	J-SB103	J-SB103	J-SB103
						Sample Name	J-SB101_9.5-10.5	J-SB101_11-12	J-SB102_0-2	SBDUP01_090721	J-SB102_7-8	J-SB102_11-12	J-SB103_0-2	J-SB103_17-18	J-SB103_19-20	J-SB103_0-2	J-SB103_19-20
						Sample Date	09/07/2021	09/07/2021	09/07/2021	09/07/2021	09/07/2021	09/07/2021	09/03/2021	09/03/2021	09/03/2021	09/07/2021	09/07/2021
						Sample Depth	9.5-10.5	11-12	0-2	0-2	7-8	11-12	0-2	17-18	19-20	0-2	19-20
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																	
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	NS	mg/kg	<0.095 U	<0.132 U	<0.0926 U	<0.45 U	<0.0995 U	<0.109 U	<0.441 U	<0.0966 U	<0.131 U	NA	NA
1,2-Diphenylhydrazine	122-66-7	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.0185 U	<0.0187 U	<0.0196 U	<0.0183 U	<0.0192 U	<0.0187 U	<0.0196 U	<0.0196 U	<0.0196 U	NA	NA
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	NS	mg/kg	<0.095 U	<0.132 U	<0.0926 U	<0.45 U	<0.0995 U	<0.109 U	<0.441 U	<0.0966 U	<0.131 U	NA	NA
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
2,4-Dichlorophenol	120-83-2	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
2,4-Dimethylphenol	105-67-9	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
2,4-Dinitrophenol	51-28-5	NS	NS	NS	NS	mg/kg	<0.095 U	<0.132 U	<0.0926 U	<0.45 U	<0.0995 U	<0.109 U	<0.441 U	<0.0966 U	<0.131 U	NA	NA
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
2-Chloronaphthalene	91-58-7	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
2-Chlorophenol	95-57-8	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
2-Methylnaphthalene	91-57-6	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	0.136 D	0.353 JD	0.349 D	<0.0545 U	<0.221 U	0.133 D	2.5 D	NA	NA
2-Methylphenol (o-Cresol)	95-48-7	**0.33**	0.33	100	500	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
2-Nitroaniline	88-74-4	NS	NS	NS	NS	mg/kg	<0.095 U	<0.132 U	<0.0926 U	<0.45 U	<0.0995 U	<0.109 U	<0.441 U	<0.0966 U	<0.131 U	NA	NA
2-Nitrophenol	88-75-5	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	**0.33**	0.33	100	500	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
3-Nitroaniline	99-09-2	NS	NS	NS	NS	mg/kg	<0.095 U	<0.132 U	<0.0926 U	<0.45 U	<0.0995 U	<0.109 U	<0.441 U	<0.0966 U	<0.131 U	NA	NA
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	NS	mg/kg	<0.095 U	<0.132 U	<0.0926 U	<0.45 U	<0.0995 U	<0.109 U	<0.441 U	<0.0966 U	<0.131 U	NA	NA
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
4-Chloroaniline	106-47-8	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
4-Nitroaniline	100-01-6	NS	NS	NS	NS	mg/kg	<0.095 U	<0.132 U	<0.0926 U	<0.45 U	<0.0995 U	<0.109 U	<0.441 U	<0.0966 U	<0.131 U	NA	NA
4-Nitrophenol	100-02-7	NS	NS	NS	NS	mg/kg	<0.095 U	<0.132 U	<0.0926 U	<0.45 U	<0.0995 U	<0.109 U	<0.441 U	<0.0966 U	<0.131 U	NA	NA
Acenaphthene	83-32-9	20	98	100	500	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	0.246 D	2.17 D	NA	NA
Acenaphthylene	208-96-8	100	107	100	500	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	0.132 D	0.256 D	NA	NA
Acetophenone	98-86-2	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	NS	NS	NS	mg/kg	<0.19 U	<0.265 U	<0.185 U	<0.902 U	<0.199 U	<0.218 U	<0.883 U	<0.193 U	<0.263 U	NA	NA
Anthracene	120-12-7	100	1000	100	500	mg/kg	<0.0476 U	<0.0664 U	0.106 D	0.328 JD	0.0564 JD	<0.0545 U	<0.221 U	0.778 D	2.04 D	NA	NA
Atrazine	1912-24-9	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
Benzaldehyde	100-52-7	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
Benzidine	92-87-5	NS	NS	NS	NS	mg/kg	<0.19 U	<0.265 U	<0.185 U	<0.902 U	<0.199 U	<0.218 U	<0.883 U	<0.193 U	<0.263 U	NA	NA
Benzo(a)anthracene	56-55-3	**1**	1	1	5.6	mg/kg	<0.0476 U	0.194 D	0.31 J	0.562 J	0.0588 JD	0.066 JD	0.384 JD	**1.53 D**	**3.27 D**	NA	NA
Benzo(a)pyrene	50-32-8	**1**	22	1	1	mg/kg	<0.0476 U	0.201 D	0.314 D	0.468 D	<0.0498 U	<0.0545 U	0.722 D	**1.35 D**	**2.7 D**	NA	NA
Benzo(b)fluoranthene	205-99-2	**1**	1.7	1	5.6	mg/kg	<0.0476 U	0.173 D	0.292 D	0.472 D	<0.0498 U	<0.0545 U	0.655 D	**1.15 D**	**2.34 D**	NA	NA
Benzo(g,h,i)Perylene	191-24-2	100	1000	100	500	mg/kg	<0.0476 U	0.129 JD	0.191 D	0.292 JD	<0.0498 U	<0.0545 U	0.497 D	0.659 D	1.27 D	NA	NA
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	3.9	56	mg/kg	<0.0476 U	0.141 D	0.243 D	0.367 JD	<0.0498 U	<0.0545 U	0.458 D	**0.877 D**	**1.75 D**	NA	NA
Benzoic Acid	65-85-0	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
Benzyl Alcohol	100-51-6	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	0.73 D	0.501 D	<0.0498 U	<0.0545 U	0.366 JD	<0.0484 U	<0.0658 U	NA	NA
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	0.127 JD	NA	NA
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	NS	mg/kg	<0.0476 U	0.289 D	2.11 D	3.49 D	0.165 D	<0.0545 U	3.51 D	0.736 D	<0.0658 U	NA	NA
Caprolactam	105-60-2	NS	NS	NS	NS	mg/kg	<0.095 U	<0.132 U	<0.0926 U	<0.45 U	<0.0995 U	<0.109 U	<0.441 U	<0.0966 U	<0.131 U	NA	NA
Carbazole	86-74-8	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	0.31 D	0.746 D	NA	NA
Chrysene	218-01-9	**1**	1	3.9	56	mg/kg	<0.0476 U	0.197 D	0.339 D	0.558 D	0.0835 JD	0.0625 JD	0.497 D	**1.44 D**	**3.01 D**	NA	NA
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.33	0.56	mg/kg	<0.0476 U	<0.0664 U	0.0652 JD	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	0.247 D	**0.437 D**	NA	NA
Dibenzofuran	132-64-9	7	210	59	350	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	0.192 D	1.25 D	NA	NA
Dibutyl phthalate	84-74-2	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	0.166 D	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
Diethyl phthalate	84-66-2	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	1.98 D	NA	NA
Dimethyl phthalate	131-11-3	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
Dioctyl phthalate	117-84-0	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
Diphenylamine	122-39-4	NS	NS	NS	NS	mg/kg	<0.095 U	<0.132 U	<0.0926 U	<0.45 U	<0.0995 U	<0.109 U	<0.441 U	0.121 JD	<0.131 U	NA	NA
Fluoranthene	206-44-0	100	1000	100	500	mg/kg	<0.0476 U	0.335 D	0.636 J	1.18 J	0.17 D	0.0617 JD	0.522 D	3.96 D	9.32 D	NA	NA
Fluorene	86-73-7	30	386	100	500	mg/kg	<0.0476 U	<0.0664 U	0.0481 JD	<0.226 U	0.0676 JD	<0.0545 U	<0.221 U	0.466 D	2.23 D	NA	NA
Hexachlorobenzene	118-74-1	0.33	3.2	1.2	6	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
Hexachloroethane	67-72-1	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	0.5	5.6	mg/kg	<0.0476 U	0.14 D	0.211 D	0.302 JD	<0.0498 U	<0.0545 U	**0.62 D**	**0.907 D**	**1.83 D**	NA	NA
Isophorone	78-59-1	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
Naphthalene	91-20-3	**12**	12	100	500	mg/kg	<0.0476 U	<0.0664 U	0.206 D	0.389 JD	0.204 D	<0.0545 U	<0.221 U	0.178 D	3.41 D	NA	NA
Nitrobenzene	98-95-3	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
n-Nitrosodimethylamine	62-75-9	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	NS	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
Pentachlorophenol	87-86-5	0.8	0.8	6.7	6.7	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
Phenanthrene	85-01-8	100	1000	100	500	mg/kg	<0.0476 U	0.213 D	0.267 J	0.951 J	0.243 D	0.0547 JD	<0.221 U	3.94 D	6.88 D	NA	NA
Phenol	108-95-2	**0.33**	0.33	100	500	mg/kg	<0.0476 U	<0.0664 U	<0.0464 U	<0.226 U	<0.0498 U	<0.0545 U	<0.221 U	<0.0484 U	<0.0658 U	NA	NA
Pyrene	129-00-0	100	1000	100	500	mg/kg	0.0547 JD	0.355 D	0.641 J	1.28 J	0.185 D	0.112 D	0.779 D	2.68 D	6.82 D	NA	NA
Pyridine	110-86-1	NS	NS	NS	NS	mg/kg	<0.19 U	<0.265 U	<0.185 U	<0.902 U	<0.199 U	<0.218 U	<0.883 U	<0.193 U	<0.263 U	NA	NA

Notes provided on Page 10.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3F
Remedial Investigation Report
Soil Sample Analytical Results - Block 1833 (J)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	J-SB101	J-SB101	J-SB102	J-SB102	J-SB102	J-SB102	J-SB103	J-SB103	J-SB103	J-SB103	J-SB103
						Sample Name	J-SB101_9.5-10.5	J-SB101_11-12	J-SB102_0-2	SBDUP01_090721	J-SB102_7-8	J-SB102_11-12	J-SB103_0-2	J-SB103_17-18	J-SB103_19-20	J-SB103_0-2	J-SB103_19-20
						Sample Date	09/07/2021	09/07/2021	09/07/2021	09/07/2021	09/07/2021	09/07/2021	09/03/2021	09/03/2021	09/03/2021	09/07/2021	09/07/2021
						Sample Depth	9.5-10.5	11-12	0-2	0-2	7-8	11-12	0-2	17-18	19-20	0-2	19-20
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Petroleum Hydrocarbons																	
Total Petroleum Hydrocarbons	TPH	NS	NS	NS	NS	UNKNOWN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides																	
4,4'-DDD	72-54-8	**0.0033**	14	13	92	mg/kg	<0.00186 U	<0.00262 U	<0.00179 U	<0.00176 U	<0.00198 U	<0.00216 U	<0.00176 U	<0.0019 U	<0.00264 U	NA	NA
4,4'-DDE	72-55-9	**0.0033**	17	8.9	62	mg/kg	<0.00186 U	<0.00262 U	<0.00179 UJ	**0.0224 J**	<0.00198 U	<0.00216 U	<0.00176 U	<0.0019 U	<0.00264 U	NA	NA
4,4'-DDT	50-29-3	**0.0033**	136	7.9	47	mg/kg	<0.00186 U	<0.00262 U	<0.00179 UJ	**0.0234 J**	<0.00198 U	<0.00216 U	<0.00176 U	<0.0019 U	<0.00264 U	NA	NA
Aldrin	309-00-2	0.005	0.19	0.097	0.68	mg/kg	<0.00186 U	<0.00262 U	<0.00179 U	<0.00176 U	<0.00198 U	<0.00216 U	<0.00176 U	<0.0019 U	<0.00264 U	NA	NA
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	0.48	3.4	mg/kg	<0.00186 U	<0.00262 U	<0.00179 U	<0.00176 U	<0.00198 U	<0.00216 U	<0.00176 U	<0.0019 U	<0.00264 U	NA	NA
Alpha Chlordane	5103-71-9	0.094	2.9	4.2	24	mg/kg	<0.00186 U	<0.00262 U	0.015 D	0.014 D	<0.00198 U	<0.00216 U	<0.00176 U	<0.0019 U	<0.00264 U	NA	NA
Alpha Endosulfan	959-98-8	2.4	102	24	200	mg/kg	<0.00186 U	<0.00262 U	<0.00179 U	<0.00176 U	<0.00198 U	<0.00216 U	<0.00176 U	<0.0019 U	<0.00264 U	NA	NA
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	0.36	3	mg/kg	<0.00186 U	<0.00262 U	<0.00179 U	<0.00176 U	<0.00198 U	<0.00216 U	<0.00176 U	<0.0019 U	<0.00264 U	NA	NA
Beta Endosulfan	33213-65-9	2.4	102	24	200	mg/kg	<0.00186 U	<0.00262 U	<0.00179 U	<0.00176 U	<0.00198 U	<0.00216 U	<0.00176 U	<0.0019 U	<0.00264 U	NA	NA
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	NS	mg/kg	<0.0371 U	<0.0524 U	0.1 D	0.0969 D	<0.0396 U	<0.0433 U	<0.0351 U	<0.038 U	<0.0528 U	NA	NA
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	100	500	mg/kg	<0.00186 U	<0.00262 U	<0.00179 U	<0.00176 U	<0.00198 U	<0.00216 U	<0.00176 U	<0.0019 U	<0.00264 U	NA	NA
Dieldrin	60-57-1	**0.005**	0.1	0.2	1.4	mg/kg	<0.00186 U	<0.00262 U	**0.00891 D**	**0.00985 D**	<0.00198 U	<0.00216 U	<0.00176 U	<0.0019 U	<0.00264 U	NA	NA
Endosulfan Sulfate	1031-07-8	2.4	1000	24	200	mg/kg	<0.00186 U	<0.00262 U	<0.00179 U	<0.00176 U	<0.00198 U	<0.00216 U	<0.00176 U	<0.0019 U	<0.00264 U	NA	NA
Endrin	72-20-8	0.014	0.06	11	89	mg/kg	<0.00186 U	<0.00262 U	<0.00179 U	<0.00176 U	<0.00198 U	<0.00216 U	<0.00176 U	<0.0019 U	<0.00264 U	NA	NA
Endrin Aldehyde	7421-93-4	NS	NS	NS	NS	mg/kg	<0.00186 U	<0.00262 U	<0.00179 U	<0.00176 U	<0.00198 U	<0.00216 U	<0.00176 U	<0.0019 U	<0.00264 U	NA	NA
Endrin Ketone	53494-70-5	NS	NS	NS	NS	mg/kg	<0.00186 U	<0.00262 U	<0.00179 U	<0.00176 U	<0.00198 U	<0.00216 U	<0.00176 U	<0.0019 U	<0.00264 U	NA	NA
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	1.3	9.2	mg/kg	<0.00186 U	<0.00262 U	<0.00179 U	<0.00176 U	<0.00198 U	<0.00216 U	<0.00176 U	<0.0019 U	<0.00264 U	NA	NA
Gamma-Chlordane	5566-34-7	NS	NS	NS	NS	mg/kg	<0.00186 U	<0.00262 U	0.0173 D	0.0158 D	<0.00198 U	<0.00216 U	<0.00176 U	<0.0019 U	<0.00264 U	NA	NA
Heptachlor	76-44-8	0.042	0.38	2.1	15	mg/kg	<0.00186 U	<0.00262 U	<0.00179 U	<0.00176 U	<0.00198 U	<0.00216 U	<0.00176 U	<0.0019 U	<0.00264 U	NA	NA
Heptachlor Epoxide	1024-57-3	NS	NS	NS	NS	mg/kg	<0.00186 U	<0.00262 U	<0.00179 U	<0.00176 U	<0.00198 U	<0.00216 U	<0.00176 U	<0.0019 U	<0.00264 U	NA	NA
Methoxychlor	72-43-5	NS	NS	NS	NS	mg/kg	<0.00186 U	<0.00262 U	<0.00179 U	<0.00176 U	<0.00198 U	<0.00216 U	<0.00176 U	<0.0019 U	<0.00264 U	NA	NA
Toxaphene	8001-35-2	NS	NS	NS	NS	mg/kg	<0.186 U	<0.262 U	<0.179 U	<0.176 U	<0.198 U	<0.216 U	<0.176 U	<0.19 U	<0.264 U	NA	NA
Herbicides																	
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	NS	mg/kg	<0.0225 U	<0.0312 U	<0.0222 U	<0.0214 U	<0.0239 U	<0.0262 U	<0.0212 U	<0.0226 U	<0.0318 U	NA	NA
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	NS	mg/kg	<0.0225 U	<0.0312 U	<0.0222 U	<0.0214 U	<0.0239 U	<0.0262 U	<0.0212 U	<0.0226 U	<0.0318 U	NA	NA
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	100	500	mg/kg	<0.0225 U	<0.0312 U	<0.0222 U	<0.0214 U	<0.0239 U	<0.0262 U	<0.0212 U	<0.0226 U	<0.0318 U	NA	NA
Polychlorinated Biphenyl																	
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	NS	mg/kg	<0.0187 U	<0.0265 U	<0.0181 U	<0.0178 U	<0.02 U	<0.0218 U	<0.0177 U	<0.0192 U	<0.0267 UJ	NA	NA
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	NS	mg/kg	<0.0187 U	<0.0265 U	<0.0181 U	<0.0178 U	<0.02 U	<0.0218 U	<0.0177 U	<0.0192 U	<0.0267 UJ	NA	NA
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	NS	mg/kg	<0.0187 U	<0.0265 U	<0.0181 U	<0.0178 U	<0.02 U	<0.0218 U	<0.0177 U	<0.0192 U	<0.0267 UJ	NA	NA
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	NS	mg/kg	<0.0187 U	<0.0265 U	0.0621	0.054	0.0579	<0.0218 U	<0.0177 U	0.153	<0.0267 UJ	NA	NA
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	NS	mg/kg	<0.0187 U	<0.0265 U	<0.0181 U	<0.0178 U	<0.02 U	<0.0218 U	0.0622	<0.0192 U	<0.0267 UJ	NA	NA
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	NS	mg/kg	<0.0187 U	<0.0265 U	<0.0181 U	<0.0178 U	<0.02 U	<0.0218 U	<0.0177 U	<0.0192 U	<0.0267 UJ	NA	NA
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	NS	mg/kg	<0.0187 U	<0.0265 U	0.0678	0.0594	0.042	<0.0218 U	0.0299	0.208	<0.0267 UJ	NA	NA
Total PCBs	1336-36-3	**0.1**	3.2	1	1	mg/kg	<0.0187 U	<0.0265 U	**0.13**	**0.113**	0.0999	<0.0218 U	0.0922	**0.361**	<0.0267 UJ	NA	NA
Metals																	
Aluminum	7429-90-5	NS	NS	NS	NS	mg/kg	3,840 J	22,300	7,460	8,730	7,890	17,800	9,340	3,580	9,460	NA	NA
Antimony	7440-36-0	NS	NS	NS	NS	mg/kg	<2.89 UJ	<4 U	<2.79 UJ	<2.73 U	<3.03 U	<3.32 U	<2.68 U	<2.92 U	<4.03 U	NA	NA
Arsenic	7440-38-2	13	16	16	16	mg/kg	<1.73 U	11.3	6.82 J	8.51	4.3	7.97	3.99	<1.75 U	<2.42 U	NA	NA
Barium	7440-39-3	**350**	820	400	400	mg/kg	48 J	77.2	181	161	251	99.1	162	317	59.1	NA	NA
Beryllium	7440-41-7	7.2	47	72	590	mg/kg	<0.058 U	<0.08 U	<0.056 U	<0.055 U	<0.061 U	<0.066 U	0.094	<0.058 U	<0.081 U	NA	NA
Cadmium	7440-43-9	**2.5**	7.5	4.3	9.3	mg/kg	<0.346 U	<0.48 U	**2.58 J**	**2.94**	**2.58**	<0.399 U	2.39	1.06	<0.483 U	NA	NA
Calcium	7440-70-2	NS	NS	NS	NS	mg/kg	42,300 J	4,170 B	43,000 B	70,200 B	19,100 B	3,240 B	90,500 B	20,300	38,000	NA	NA
Chromium, Hexavalent	18540-29-9	1	19	110	400	mg/kg	<0.577 U	<0.799 U	<0.557 U	<0.546 U	<0.606 U	<0.664 U	<0.536 U	<0.583 U	<0.806 U	NA	NA
Chromium, Total	7440-47-3	NS	NS	NS	NS	mg/kg	10.3	43.9	23.5	24.5	34.9	37.2	19.1	13.7	6.14	NA	NA
Chromium, Trivalent	16065-83-1	**30**	NS	180	1500	mg/kg	10.3	**43.9**	23.5	24.5	**34.9**	**37.2**	19.1	13.7	6.14	NA	NA
Cobalt	7440-48-4	NS	NS	NS	NS	mg/kg	2.78	15	6.98	8.1	9.32	9.56	4.76	6.61	9.07	NA	NA
Copper	7440-50-8	**50**	1720	270	270	mg/kg	15.7 J	32.1	**220 J**	**71 J**	**94.7**	37.5	**177**	**117**	**125**	NA	NA
Cyanide	57-12-5	27	40	27	27	mg/kg	<0.577 U	<0.799 U	<0.557 U	<0.546 U	<0.606 U	<0.664 U	<0.536 U	1.92	<0.806 U	NA	NA
Iron	7439-89-6	NS	NS	NS	NS	mg/kg	8,240	41,200	21,900	18,600	26,700	38,500	19,000	22,300	21,000	NA	NA
Lead	7439-92-1	**63**	450	400	1000	mg/kg	36.5 J	53.2	**268**	**173**	**306**	37.5	**966**	**306**	21.4	NA	NA
Magnesium	7439-95-4	NS	NS	NS	NS	mg/kg	4,830	9,970	10,200 J	24,900 J	5,520	7,310	44,300 B	3,020	3,970	NA	NA
Manganese	7439-96-5	1600	2000	2000	10000	mg/kg	120 J	955	220	254	422	458	593	244	156	NA	NA
Mercury	7439-97-6	**0.18**	0.73	0.81	2.8	mg/kg	0.0511	0.13	**0.217**	**0.181**	0.147	0.0512	**0.605**	0.0822	0.0794	NA	NA
Nickel	7440-02-0	**30**	130	310	310	mg/kg	3.64 J	29.9 J	28.8 J	23.6 J	27.4 J	22.2 J	25.4	22.7	11.7	NA	NA
Potassium	7440-09-7	NS	NS	NS	NS	mg/kg	443 J	5,970	1,950	2,260	1,230	4,720	1,270	493	604	NA	NA
Selenium	7782-49-2	**3.9**	4	180	1500	mg/kg	<2.89 U	<4 U	<2.79 U	<2.73 U	<3.03 U	<3.32 U	<2.68 U	<2.92 UJ	<4.03 UJ	NA	NA
Silver	7440-22-4	2	8.3	180	1500	mg/kg	<0.577 U	<0.799 U	<0.557 U	<0.546 U	<0.606 U	<0.664 U	1.49	<0.583 U	<0.806 U	NA	NA
Sodium	7440-23-5	NS	NS	NS	NS	mg/kg	242 J	3,850	706	879	356	3,130	1,720	842	2,920	NA	NA
Thallium	7440-28-0	NS	NS	NS	NS	mg/kg	<2.89 U	<4 U	<2.79 U	<2.73 U	<3.03 U	<3.32 U	<2.68 U	<2.92 U	<4.03 U	NA	NA
Vanadium	7440-62-2	NS	NS	NS	NS	mg/kg	8.51	51.9	28.1	30.8	27.3	47.6	47	21.6	21.9	NA	NA
Zinc	7440-66-6	**109**	2480	10000	10000	mg/kg	68 J	**114**	**2,430 J**	**547 J**	**771**	**175**	**343**	**546**	45	NA	NA
General Chemistry																	
Solids, Percent	SOLID	NS	NS	NS	NS	Percent	86.6	62.5	89.7	91.7	82.5	75.2	93.3	85.7	62.1	92.1	54.1
Perfluorooctanoic acids																	
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA	2991-50-6	NS	NS	NS	NS	mg/kg	<0.000278 U	<0.000359 U	0.0003	<0.000254 U	<0.000275 U	<0.000261 U	NA	<0.00028 U	NA	0.00322	<0.000436 U
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOS	2355-31-9	NS	NS	NS	NS	mg/kg	<0.000278 U	<0.000359 U	<0.000251 U	<0.000254 U	<0.000275 U	<0.000261 U	NA	<0.00028 U	NA	0.000266	<0.000436 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	NS	mg/kg	<0.000278 U	<0.000359 U	<0.000251 U	<0.000254 U	<0.000275 U	<0.000261 U	NA	<0.00028 U	NA	<0.000263 U	<0.000436 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	NS	mg/kg	0.000664	<0.000359 U	<0.000251 U	<0.000254 U	0.000581	<0.000261 U	NA	0.00311	NA	<0.000263 U	<0.000436 U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	NS	mg/kg	<0.000278 U	<0.000359 U	<0.000251 U	<0.000254 U	<0.000275 U	<0.000261 U	NA	<0.00028 U	NA	<0.000263 U	<0.000436 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	NS	mg/kg	<0.000278 U	<0.000359 U	<0.000251 U	<0.000254 U	<0.000275 U	<0.000261 U	NA	<0.00028 U	NA	<0.000263 U	<0.000436 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	NS	mg/kg	<0.000278 U	<0.000359 U	<0.000251 U	<0.000254 U	<0.000275 U	<0.000261 U	NA	<0.00028 U	NA	<0.000263 U	<0.000436 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	NS	mg/kg	<0.000278 U	<0.000359 U	<0.000251 U	<0.000254 U	<0.000275 U	<0.000261 U	NA	<0.00028 U	NA	<0.000263 U	<0.000436 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	NS	mg/kg	<0.000278 U	<0.000359 U	<0.000251 U	<0.000254 U	0.000282	<0.000261 U	NA	<0.00028 U	NA	<0.000263 U	<0.000436 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	NS	mg/kg	<0.000278 U	<0.000359 U	<0.000251 U	<0.000254 U	<0.000275 U	<0.000261 U	NA	<0.00028 U	NA	<0.000263 U	<0.000436 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	NS	mg/kg	<0.000278 U	<0.000359 U	<0.000251 U	<0.000254 U	<0.000275 U	<0.000261 U	NA	<0.00028 U	NA	<0.000263 U	<0.000436 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	NS	mg/kg	<0.000278 U	<0.000359 U	<0.000251 U	<0.000254 U	<0.000275 U	<0.000261 U	NA	<0.00028 U	NA	<0.000263 U	<0.000436 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	NS	mg/kg	<0.000278 U	<0.000359 U	<0.000251 U	<0.000254 U	<0.000275 U	<0.000261 U	NA	<0.00028 U	NA	<0.000263 U	<0.000436 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.044	0.44	mg/kg	<0.000278 U	0.000379	0.000451	0.000603	<0.000275 U	<0.000261 U	NA	<0.00028 U	NA	**0.00115**	<0.000436 U
Perfluorooctanoic Acid (PFOA)	335-67-1	**0.00066**	0.0011	0.033	0.5	mg/kg	<0.000278 U	<0.000359 U	<0.000251 U	<0.000254 U	<0.000275 U	<0.000261 U	NA	<0.00028 U	NA	0.000407	<0.000436 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	NS	mg/kg	<0.000278 U	<0.000359 U	<0.000251 U	<0.000254 U	<0.000275 U	<0.000261 U	NA	<0.00028 U	NA	0.000543	<0.000436 U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	NS	mg/kg	<0.000278 U	<0.000359 U	<0.000251 U	<0.000254 U	<0.000275 U	<0.000261 U	NA	0.000283	NA	<0.000263 U	<0.000436 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	NS	mg/kg	<0.000278 U	<0.000359 U	<0.000251 U	<0.000254 U	<0.000275 U	<0.000261 U	NA	<0.00028 U	NA	<0.000263 U	<0.000436 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	NS	mg/kg	<0.000278 U	<0.000359 U	<0.000251 U	<0.000254 U	<0.000275 U	<0.000261 U	NA	<0.00028 U	NA	<0.000263 U	<0.000436 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FT	39108-34-4	NS	NS	NS	NS	mg/kg	<0.000278 U	<0.000359 U	<0.000251 U	<0.000254 U	<0.000275 U	<0.000261 U	NA	<0.00028 U	NA	<0.000263 U	<0.000436 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FT	27619-97-2	NS	NS	NS	NS	mg/kg	<0.000278 U	<0.000359 U	<0.000251 U	<0.000254 U	<0.000275 U	<0.000261 U	NA	<0.00028 U	NA	<0.000263 U	<0.000436 U

Notes provided on Page 10.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3F
Remedial Investigation Report
Soil Sample Analytical Results - Block 1833 (J)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Notes:

CAS - Chemical Abstract Service
NS - No standard
mg/kg - milligram per kilogram
NA - Not analyzed
RL - Reporting limit
<RL - Not detected
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 Unrestricted Use (UU), Protection of Groundwater (PGW), Restricted Use Restricted-Residential (RURR), and Restricted Use Commercial (CU) Soil Cleanup Objectives (SCO).
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).

Qualifiers:

D - The concentration reported is a result of a diluted sample.
E - The result is estimated and cannot be accurately reported due to levels encountered or interferences.
B - The analyte was found in the associated analysis batch blank.
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 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.

Exceedance Summary:

10 - Result exceeds Unrestricted Use SCOs
10 - Result exceeds Protection of Groundwater SCOs
10 - Result exceeds Restricted Use Restricted-Residential SCOs
10 - Result exceeds Restricted Use Commercial SCOs

Table 3G
Remedial Investigation Report
Soil Sample Analytical Results - Block 1820 (K)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	K-EP101	K-EP101	K-EP101	K-EP102	K-EP102	K-EP104	K-EP104	K-EP105	K-EP105	K-SB101	K-SB101	K-SB102
						Sample Name	K-EP101_0-2	K-EP101_6-8	K-EP101_10-12	K-EP102_0-2	K-EP102_10-12	K-EP104_0-2	K-EP104_8-10	K-EP105_1.5-2.5	K-EP105_5-6	K-SB101_0-2	K-SB101_5-7	K-SB102_0-2
						Sample Date	09/27/2021	09/27/2021	09/27/2021	09/27/2021	09/27/2021	09/28/2021	09/28/2021	09/24/2021	09/24/2021	09/28/2021	09/28/2021	09/24/2021
						Sample Depth	0-2	6-8	10-12	0-2	10-12	0-2	8-10	1.5-2.5	5-6	0-2	5-7	0-2
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																		
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	500	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	NS	mg/kg	<0.0026 UJ	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
1,1-Dichloroethane	75-34-3	0.27	0.27	26	240	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
1,1-Dichloroethene	75-35-4	0.33	0.33	100	500	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	NS	mg/kg	<0.0026 UJ	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	NS	mg/kg	<0.0026 UJ	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	NS	mg/kg	<0.0026 UJ	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
1,2,4-Trimethylbenzene	95-63-6	3.6	3.6	52	190	mg/kg	<0.0026 UJ	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	NS	mg/kg	<0.0026 UJ	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	500	mg/kg	<0.0026 UJ	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
1,2-Dichloroethane	107-06-2	0.02	0.02	3.1	30	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	52	190	mg/kg	<0.0026 UJ	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	280	mg/kg	<0.0026 UJ	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	130	mg/kg	<0.0026 UJ	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.051 U	<0.056 U	<0.055 U	<0.062 U	<0.052 U	<0.087 U	<0.054 U	<0.048 U	<0.046 U	<0.051 U	<0.047 U	<0.039 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
Acetone	67-64-1	**0.05**	0.05	100	500	mg/kg	0.05	**0.084**	0.047	0.0075 J	<0.0052 U	<0.0087 U	<0.0054 U	0.017	0.012 J	0.0078 J	<0.0047 U	**0.068**
Acrolein	107-02-8	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0056 U	<0.0055 U	<0.0062 U	<0.0052 U	<0.0087 U	<0.0054 U	<0.0048 U	<0.0046 U	<0.0051 U	<0.0047 U	<0.0039 U
Acrylonitrile	107-13-1	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
Benzene	71-43-2	0.06	0.06	4.8	44	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
Bromochloromethane	74-97-5	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
Bromodichloromethane	75-27-4	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
Bromoform	75-25-2	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
Bromomethane	74-83-9	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
Carbon Disulfide	75-15-0	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
Carbon Tetrachloride	56-23-5	0.76	0.76	2.4	22	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
Chlorobenzene	108-90-7	1.1	1.1	100	500	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
Chloroethane	75-00-3	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
Chloroform	67-66-3	0.37	0.37	49	350	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	0.0039 J	<0.002 U
Chloromethane	74-87-3	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	100	500	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
Cyclohexane	110-82-7	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
Dibromochloromethane	124-48-1	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
Dibromomethane	74-95-3	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
Ethylbenzene	100-41-4	1	1	41	390	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0026 UJ	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	NS	mg/kg	<0.0026 UJ	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
M,P-Xylene	179601-23-1	NS	NS	NS	NS	mg/kg	<0.0051 U	<0.0056 U	<0.0055 U	<0.0062 U	<0.0052 U	<0.0087 U	<0.0054 U	<0.0048 U	<0.0046 U	<0.0051 U	<0.0047 U	<0.0039 U
Methyl Acetate	79-20-9	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	0.0097
Methyl Ethyl Ketone (2-Butanone)	78-93-3	0.12	0.12	100	500	mg/kg	0.012	0.02	0.012	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	0.0032 J	<0.0023 U	<0.0025 U	<0.0023 U	0.015
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
Methylcyclohexane	108-87-2	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
Methylene Chloride	75-09-2	0.05	0.05	100	500	mg/kg	0.011	<0.0056 U	<0.0055 U	<0.0062 U	<0.0052 U	<0.0087 U	<0.0054 U	0.012	<0.0046 U	<0.0051 U	<0.0047 U	<0.0039 U
n-Butylbenzene	104-51-8	12	12	100	500	mg/kg	<0.0026 UJ	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 UJ	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
n-Propylbenzene	103-65-1	3.9	3.9	100	500	mg/kg	<0.0026 UJ	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	NS	NS	mg/kg	<0.0026 UJ	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
Sec-Butylbenzene	135-98-8	11	11	100	500	mg/kg	<0.0026 UJ	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
Styrene	100-42-5	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
T-Butylbenzene	98-06-6	5.9	5.9	100	500	mg/kg	<0.0026 UJ	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
Tert-Butyl Alcohol	75-65-0	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0028 U	<0.0027 UJ	<0.0031 UJ	<0.0026 UJ	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 UJ	<0.0025 U	<0.0023 U	<0.002 UJ
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	100	500	mg/kg	<0.0026 U	<0.0028 U	0.0057	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	19	150	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
Toluene	108-88-3	0.7	0.7	100	500	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
Total Xylenes	1330-20-7	0.26	1.6	100	500	mg/kg	<0.0077 U	<0.0084 U	<0.0082 U	<0.0093 U	<0.0078 U	<0.013 U	<0.0081 U	<0.0071 U	<0.0069 U	<0.0076 U	<0.007 U	<0.0059 U
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	100	500	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
Trichloroethene (TCE)	79-01-6	0.47	0.47	21	200	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	NS	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U
Vinyl Chloride	75-01-4	0.02	0.02	0.9	13	mg/kg	<0.0026 U	<0.0028 U	<0.0027 U	<0.0031 U	<0.0026 U	<0.0043 U	<0.0027 U	<0.0024 U	<0.0023 U	<0.0025 U	<0.0023 U	<0.002 U

Notes provided on Page 7.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3G
Remedial Investigation Report
Soil Sample Analytical Results - Block 1820 (K)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	K-EP101	K-EP101	K-EP101	K-EP102	K-EP102	K-EP104	K-EP104	K-EP105	K-EP105	K-SB101	K-SB101	K-SB102
						Sample Name	K-EP101_0-2	K-EP101_6-8	K-EP101_10-12	K-EP102_0-2	K-EP102_10-12	K-EP104_0-2	K-EP104_8-10	K-EP105_1.5-2.5	K-EP105_5-6	K-SB101_0-2	K-SB101_5-7	K-SB102_0-2
						Sample Date	09/27/2021	09/27/2021	09/27/2021	09/27/2021	09/27/2021	09/28/2021	09/28/2021	09/24/2021	09/24/2021	09/28/2021	09/28/2021	09/24/2021
						Sample Depth	0-2	6-8	10-12	0-2	10-12	0-2	8-10	1.5-2.5	5-6	0-2	5-7	0-2
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																		
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	NS	mg/kg	<0.0925 U	<0.112 U	<0.102 U	<0.0903 U	<0.0996 U	<0.0976 U	<0.102 U	<0.441 U	<0.0899 U	<0.0922 U	<0.0963 U	<0.089 U
1,2-Diphenylhydrazine	122-66-7	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 U	<0.0462 U	<0.0483 U	<0.0446 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.0187 U	<0.0196 U	<0.0194 U	<0.0192 U	<0.0185 U	<0.0194 U	<0.0196 U	NA	NA	<0.0194 U	<0.0194 U	<0.019 U
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	NS	mg/kg	<0.0925 U	<0.112 U	<0.102 U	<0.0903 U	<0.0996 U	<0.0976 U	<0.102 U	<0.441 U	<0.0899 UJ	<0.0922 U	<0.0963 U	<0.089 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 UJ	<0.0462 U	<0.0483 U	<0.0446 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 UJ	<0.0462 U	<0.0483 U	<0.0446 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 UJ	<0.0462 U	<0.0483 U	<0.0446 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 UJ	<0.0462 U	<0.0483 U	<0.0446 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	NS	mg/kg	<0.0925 UJ	<0.112 U	<0.102 U	<0.0903 UJ	<0.0996 U	<0.0976 U	<0.102 U	<0.441 U	<0.0899 UJ	<0.0922 U	<0.0963 U	<0.089 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 U	<0.0462 U	<0.0483 U	<0.0446 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 U	<0.0462 U	<0.0483 U	<0.0446 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 U	<0.0462 U	<0.0483 U	<0.0446 U
2-Chlorophenol	95-57-8	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 UJ	<0.0462 U	<0.0483 U	<0.0446 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	0.102 D	<0.0462 U	<0.0483 U	<0.0446 U
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	500	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 UJ	<0.0462 U	<0.0483 U	<0.0446 U
2-Nitroaniline	88-74-4	NS	NS	NS	NS	mg/kg	<0.0925 U	<0.112 U	<0.102 U	<0.0903 U	<0.0996 U	<0.0976 U	<0.102 U	<0.441 U	<0.0899 U	<0.0922 U	<0.0963 U	<0.089 U
2-Nitrophenol	88-75-5	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 UJ	<0.0462 U	<0.0483 U	<0.0446 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	0.33	0.33	100	500	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 UJ	<0.0462 U	<0.0483 U	<0.0446 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 U	<0.0462 U	<0.0483 U	<0.0446 U
3-Nitroaniline	99-09-2	NS	NS	NS	NS	mg/kg	<0.0925 U	<0.112 U	<0.102 U	<0.0903 U	<0.0996 U	<0.0976 U	<0.102 U	<0.441 U	<0.0899 U	<0.0922 U	<0.0963 U	<0.089 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	NS	mg/kg	<0.0925 U	<0.112 U	<0.102 U	<0.0903 U	<0.0996 U	<0.0976 U	<0.102 U	<0.441 U	<0.0899 UJ	<0.0922 U	<0.0963 U	<0.089 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 U	<0.0462 U	<0.0483 U	<0.0446 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 UJ	<0.0462 U	<0.0483 U	<0.0446 U
4-Chloroaniline	106-47-8	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 U	<0.0462 U	<0.0483 U	<0.0446 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 U	<0.0462 U	<0.0483 U	<0.0446 U
4-Nitroaniline	100-01-6	NS	NS	NS	NS	mg/kg	<0.0925 U	<0.112 U	<0.102 U	<0.0903 U	<0.0996 U	<0.0976 U	<0.102 U	<0.441 U	<0.0899 U	<0.0922 U	<0.0963 U	<0.089 U
4-Nitrophenol	100-02-7	NS	NS	NS	NS	mg/kg	<0.0925 U	<0.112 U	<0.102 U	<0.0903 U	<0.0996 U	<0.0976 U	<0.102 U	<0.441 U	<0.0899 UJ	<0.0922 U	<0.0963 U	<0.089 U
Acenaphthene	83-32-9	20	98	100	500	mg/kg	0.0495 JD	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	0.0769 JD	<0.0462 U	<0.0483 U	<0.0446 U
Acenaphthylene	208-96-8	100	107	100	500	mg/kg	0.082 JD	<0.056 U	<0.0513 U	0.0527 JD	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 U	0.0877 JD	0.05 JD	<0.0446 U
Acetophenone	98-86-2	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 U	<0.0462 U	<0.0483 U	<0.0446 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	NS	NS	NS	mg/kg	<0.185 U	<0.224 U	<0.205 U	<0.181 U	<0.2 U	<0.195 U	<0.205 U	<0.883 U	<0.18 U	<0.185 U	<0.193 U	<0.178 U
Anthracene	120-12-7	100	1000	100	500	mg/kg	0.176 D	<0.056 U	<0.0513 U	0.0866 JD	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	0.169 D	<0.0462 U	<0.0483 U	<0.0446 U
Atrazine	1912-24-9	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 U	<0.0462 U	<0.0483 U	<0.0446 U
Benzaldehyde	100-52-7	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 U	<0.0462 U	<0.0483 U	<0.0446 U
Benzidine	92-87-5	NS	NS	NS	NS	mg/kg	<0.185 U	<0.224 U	<0.205 U	<0.181 U	<0.2 U	<0.195 U	<0.205 U	<0.883 U	<0.18 U	<0.185 U	<0.193 U	<0.178 U
Benzo(a)anthracene	56-55-3	**1**	1	1	5.6	mg/kg	0.483 D	<0.056 U	<0.0513 U	0.303 D	<0.0499 U	<0.0489 U	<0.0512 U	0.709 D	0.415 D	<0.0462 U	0.102 D	0.192 D
Benzo(a)pyrene	50-32-8	**1**	22	1	1	mg/kg	0.492 D	<0.056 U	<0.0513 U	0.338 D	<0.0499 U	<0.0489 U	<0.0512 U	0.973 D	0.407 D	<0.0462 U	0.109 D	0.282 D
Benzo(b)fluoranthene	205-99-2	**1**	1.7	1	5.6	mg/kg	0.429 D	<0.056 U	<0.0513 U	0.314 D	<0.0499 U	<0.0489 U	<0.0512 U	0.723 D	0.298 D	<0.0462 U	0.0916 JD	0.207 D
Benzo(g,h,i)Perylene	191-24-2	100	1000	100	500	mg/kg	0.298 D	<0.056 U	<0.0513 U	0.255 D	<0.0499 U	<0.0489 U	<0.0512 U	0.391 JD	0.2 D	<0.0462 U	<0.0483 U	0.231 D
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	3.9	56	mg/kg	0.355 D	<0.056 U	<0.0513 U	0.287 D	<0.0499 U	<0.0489 U	<0.0512 U	0.762 D	0.335 D	<0.0462 U	0.0847 JD	0.199 D
Benzoic Acid	65-85-0	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 U	<0.0462 U	<0.0483 U	<0.0446 U
Benzyl Alcohol	100-51-6	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 U	<0.0462 U	<0.0483 U	<0.0446 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 U	2.1 D	0.192 D	<0.0446 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 U	<0.0462 U	<0.0483 U	<0.0446 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 U	<0.0462 U	<0.0483 U	<0.0446 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 U	<0.0462 U	<0.0483 U	<0.0446 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 U	<0.0462 U	<0.0483 U	<0.0446 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	0.0797 JD	0.703 D	0.216 D	<0.0446 U
Caprolactam	105-60-2	NS	NS	NS	NS	mg/kg	<0.0925 U	<0.112 U	<0.102 U	<0.0903 U	<0.0996 U	<0.0976 U	<0.102 U	<0.441 U	<0.0899 U	<0.0922 U	<0.0963 U	<0.089 U
Carbazole	86-74-8	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	0.0467 JD	<0.0462 U	<0.0483 U	<0.0446 U
Chrysene	218-01-9	**1**	1	3.9	56	mg/kg	0.475 D	<0.056 U	<0.0513 U	0.279 D	<0.0499 U	<0.0489 U	<0.0512 U	0.709 D	0.397 D	<0.0462 U	0.11 D	0.198 D
Dibenz(a,h)anthracene	53-70-3	0.33	1000	0.33	0.56	mg/kg	0.105 D	<0.056 U	<0.0513 U	0.0939 D	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	0.069 JD	<0.0462 U	<0.0483 U	0.0697 JD
Dibenzofuran	132-64-9	7	210	59	350	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	0.0467 JD	<0.0462 U	<0.0483 U	<0.0446 U
Dibutyl phthalate	84-74-2	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 U	<0.0462 U	<0.0483 U	<0.0446 U
Diethyl phthalate	84-66-2	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 U	<0.0462 U	<0.0483 U	<0.0446 U
Dimethyl phthalate	131-11-3	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 U	<0.0462 U	<0.0483 U	<0.0446 U
Dioctyl phthalate	117-84-0	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 U	<0.0462 U	<0.0483 U	<0.0446 U
Diphenylamine	122-39-4	NS	NS	NS	NS	mg/kg	<0.0925 U	<0.112 U	<0.102 U	<0.0903 U	<0.0996 U	<0.0976 U	<0.102 U	<0.441 U	<0.0899 U	<0.0922 U	<0.0963 U	<0.089 U
Fluoranthene	206-44-0	100	1000	100	500	mg/kg	0.813 D	<0.056 U	<0.0513 U	0.469 D	<0.0499 U	<0.0489 U	<0.0512 U	1.01 D	0.848 D	0.0744 JD	0.172 D	0.222 D
Fluorene	86-73-7	30	386	100	500	mg/kg	0.0584 JD	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	0.0862 JD	<0.0462 U	<0.0483 U	<0.0446 U
Hexachlorobenzene	118-74-1	0.33	3.2	1.2	6	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 U	<0.0462 U	<0.0483 U	<0.0446 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 U	<0.0462 U	<0.0483 U	<0.0446 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	NS	mg/kg	<0.0463 UJ	<0.056 U	<0.0513 U	<0.0453 UJ	<0.0499 U	<0.0489 UJ	<0.0512 UJ	<0.221 U	<0.045 U	<0.0462 U	<0.0483 U	<0.0446 U
Hexachloroethane	67-72-1	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 U	<0.0462 U	<0.0483 U	<0.0446 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	0.5	5.6	mg/kg	0.33 D	<0.056 U	<0.0513 U	0.267 D	<0.0499 U	<0.0489 U	<0.0512 U	0.441 D	0.187 D	<0.0462 U	0.0739 JD	0.179 D
Isophorone	78-59-1	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 U	<0.0462 U	<0.0483 U	<0.0446 U
Naphthalene	91-20-3	12	12	100	500	mg/kg	0.0576 JD	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	0.0474 JD	<0.0462 U	<0.0483 U	<0.0446 U
Nitrobenzene	98-95-3	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 U	<0.0462 U	<0.0483 U	<0.0446 U
n-Nitrosodimethylamine	62-75-9	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 U	<0.0462 U	<0.0483 U	<0.0446 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 U	<0.0462 U	<0.0483 U	<0.0446 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	NS	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 U	<0.0462 U	<0.0483 U	<0.0446 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	6.7	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 UJ	<0.0462 U	<0.0483 U	<0.0446 U
Phenanthrene	85-01-8	100	1000	100	500	mg/kg	0.438 D	<0.056 U	<0.0513 U	0.187 D	<0.0499 U	<0.0489 U	<0.0512 U	0.363 JD	0.697 D	0.0472 JD	<0.0483 U	0.0833 JD
Phenol	108-95-2	0.33	0.33	100	500	mg/kg	<0.0463 U	<0.056 U	<0.0513 U	<0.0453 U	<0.0499 U	<0.0489 U	<0.0512 U	<0.221 U	<0.045 UJ	<0.0462 U	<0.0483 U	<0.0446 U
Pyrene	129-00-0	100	1000	100	500	mg/kg	0.835 D	<0.056 U	<0.0513 U	0.471 D	<0.0499 U	<0.0489 U	<0.0512 U	1.26 D	0.858 D	0.0774 JD	0.142 D	0.322 D
Pyridine	110-86-1	NS	NS	NS	NS	mg/kg	<0.185 U	<0.224 U	<0.205 U	<0.181 U	<0.2 U	<0.195 U	<0.205 U	<0.883 U	<0.18 U	<0.185 U	<0.193 U	<0.178 U

Notes provided on Page 7.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3G
Remedial Investigation Report
Soil Sample Analytical Results - Block 1820 (K)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	K-EP101	K-EP101	K-EP101	K-EP102	K-EP102	K-EP104	K-EP104	K-EP105	K-EP105	K-SB101	K-SB101	K-SB102
						Sample Name	K-EP101_0-2	K-EP101_6-8	K-EP101_10-12	K-EP102_0-2	K-EP102_10-12	K-EP104_0-2	K-EP104_8-10	K-EP105_1.5-2.5	K-EP105_5-6	K-SB101_0-2	K-SB101_5-7	K-SB102_0-2
						Sample Date	09/27/2021	09/27/2021	09/27/2021	09/27/2021	09/27/2021	09/28/2021	09/28/2021	09/24/2021	09/24/2021	09/28/2021	09/28/2021	09/24/2021
						Sample Depth	0-2	6-8	10-12	0-2	10-12	0-2	8-10	1.5-2.5	5-6	0-2	5-7	0-2
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Pesticides																		
4,4'-DDD	72-54-8	**0.0033**	14	13	92	mg/kg	<0.0018 U	<0.00218 U	<0.00204 U	<0.00179 U	<0.00196 U	<0.00191 U	<0.00206 U	NA	NA	<0.00182 U	<0.00189 U	<0.00176 U
4,4'-DDE	72-55-9	0.0033	17	8.9	62	mg/kg	<0.0018 U	<0.00218 U	<0.00204 U	<0.00179 U	<0.00196 U	<0.00191 U	<0.00206 U	NA	NA	<0.00182 U	<0.00189 U	<0.00176 U
4,4'-DDT	50-29-3	0.0033	136	7.9	47	mg/kg	<0.0018 U	<0.00218 U	<0.00204 U	<0.00179 U	<0.00196 U	<0.00191 U	<0.00206 U	NA	NA	<0.00182 U	<0.00189 U	<0.00176 U
Aldrin	309-00-2	0.005	0.19	0.097	0.68	mg/kg	<0.0018 U	<0.00218 U	<0.00204 U	<0.00179 U	<0.00196 U	<0.00191 U	<0.00206 U	NA	NA	<0.00182 U	<0.00189 U	<0.00176 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	0.48	3.4	mg/kg	<0.0018 U	<0.00218 U	<0.00204 U	<0.00179 U	<0.00196 U	<0.00191 U	<0.00206 U	NA	NA	<0.00182 U	<0.00189 U	<0.00176 U
Alpha Chlordane	5103-71-9	**0.094**	2.9	4.2	24	mg/kg	<0.0018 U	<0.00218 U	<0.00204 U	**0.233 J**	<0.00196 U	<0.00191 U	<0.00206 U	NA	NA	<0.00182 U	<0.00189 U	<0.00176 U
Alpha Endosulfan	959-98-8	2.4	102	24	200	mg/kg	<0.0018 U	<0.00218 U	<0.00204 U	<0.00179 U	<0.00196 U	<0.00191 U	<0.00206 U	NA	NA	<0.00182 U	<0.00189 U	<0.00176 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	0.36	3	mg/kg	<0.0018 U	<0.00218 U	<0.00204 U	<0.00179 U	<0.00196 U	<0.00191 U	<0.00206 U	NA	NA	<0.00182 U	<0.00189 U	<0.00176 U
Beta Endosulfan	33213-65-9	2.4	102	24	200	mg/kg	<0.0018 U	<0.00218 U	<0.00204 U	<0.00179 U	<0.00196 U	<0.00191 U	<0.00206 U	NA	NA	<0.00182 U	<0.00189 U	<0.00176 U
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	NS	mg/kg	<0.036 U	<0.0436 U	<0.0408 U	0.864 J	<0.0392 U	<0.0382 U	<0.0411 U	NA	NA	<0.0365 U	<0.0379 U	<0.0351 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	**0.04**	0.25	100	500	mg/kg	<0.0018 U	<0.00218 U	<0.00204 U	<0.00179 U	<0.00196 U	<0.00191 U	<0.00206 U	NA	NA	<0.00182 U	<0.00189 U	<0.00176 U
Dieldrin	60-57-1	**0.005**	0.1	0.2	1.4	mg/kg	<0.0018 U	<0.00218 U	<0.00204 U	<0.00179 U	<0.00196 U	<0.00191 U	<0.00206 U	NA	NA	<0.00182 U	<0.00189 U	**0.00741 D**
Endosulfan Sulfate	1031-07-8	2.4	1000	24	200	mg/kg	<0.0018 U	<0.00218 U	<0.00204 U	<0.00179 U	<0.00196 U	<0.00191 U	<0.00206 U	NA	NA	<0.00182 U	<0.00189 U	<0.00176 U
Endrin	72-20-8	0.014	0.06	11	89	mg/kg	<0.0018 U	<0.00218 U	<0.00204 U	<0.00179 U	<0.00196 U	<0.00191 U	<0.00206 U	NA	NA	<0.00182 U	<0.00189 U	<0.00176 U
Endrin Aldehyde	7421-93-4	NS	NS	NS	NS	mg/kg	<0.0018 U	<0.00218 U	<0.00204 U	<0.00179 U	<0.00196 U	<0.00191 U	<0.00206 U	NA	NA	<0.00182 U	<0.00189 U	<0.00176 U
Endrin Ketone	53494-70-5	NS	NS	NS	NS	mg/kg	<0.0018 U	<0.00218 U	<0.00204 U	<0.00179 U	<0.00196 U	<0.00191 U	<0.00206 U	NA	NA	<0.00182 U	<0.00189 U	<0.00176 U
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	1.3	9.2	mg/kg	<0.0018 U	<0.00218 U	<0.00204 U	<0.00179 U	<0.00196 U	<0.00191 U	<0.00206 U	NA	NA	<0.00182 U	<0.00189 U	<0.00176 U
Gamma-Chlordane	5566-34-7	NS	NS	NS	NS	mg/kg	<0.0018 U	<0.00218 U	<0.00204 U	0.135 D	<0.00196 U	<0.00191 U	<0.00206 U	NA	NA	<0.00182 U	<0.00189 U	<0.00176 U
Heptachlor	76-44-8	0.042	0.38	2.1	15	mg/kg	<0.0018 U	<0.00218 U	<0.00204 U	<0.00179 U	<0.00196 U	<0.00191 U	<0.00206 U	NA	NA	<0.00182 U	<0.00189 U	<0.00176 U
Heptachlor Epoxide	1024-57-3	NS	NS	NS	NS	mg/kg	<0.0018 U	<0.00218 U	<0.00204 U	<0.00179 U	<0.00196 U	<0.00191 U	<0.00206 U	NA	NA	<0.00182 U	<0.00189 U	<0.00176 U
Methoxychlor	72-43-5	NS	NS	NS	NS	mg/kg	<0.0018 U	<0.00218 U	<0.00204 U	<0.00179 U	<0.00196 U	<0.00191 U	<0.00206 U	NA	NA	<0.00182 U	<0.00189 U	<0.00176 U
Toxaphene	8001-35-2	NS	NS	NS	NS	mg/kg	<0.18 U	<0.218 U	<0.204 U	<0.179 U	<0.196 U	<0.191 U	<0.206 U	NA	NA	<0.182 U	<0.189 U	<0.176 U
Herbicides																		
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	NS	mg/kg	<0.0217 U	<0.0261 U	<0.0209 U	<0.0218 U	<0.0238 U	<0.0232 U	<0.0248 U	NA	NA	<0.0217 U	<0.0226 U	<0.0213 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	NS	mg/kg	<0.0217 U	<0.0261 U	<0.0209 U	<0.0218 U	<0.0238 U	<0.0232 U	<0.0248 U	NA	NA	<0.0217 U	<0.0226 U	<0.0213 U
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	100	500	mg/kg	<0.0217 U	<0.0261 U	<0.0209 U	<0.0218 U	<0.0238 U	<0.0232 U	<0.0248 U	NA	NA	<0.0217 U	<0.0226 U	<0.0213 U
Polychlorinated Biphenyl																		
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	NS	mg/kg	<0.0182 U	<0.022 U	<0.0206 U	<0.0181 U	<0.0198 U	<0.0193 U	<0.0208 U	NA	NA	<0.0184 U	<0.0191 U	<0.0177 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	NS	mg/kg	<0.0182 U	<0.022 U	<0.0206 U	<0.0181 U	<0.0198 U	<0.0193 U	<0.0208 U	NA	NA	<0.0184 U	<0.0191 U	<0.0177 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	NS	mg/kg	<0.0182 U	<0.022 U	<0.0206 U	<0.0181 U	<0.0198 U	<0.0193 U	<0.0208 U	NA	NA	<0.0184 U	<0.0191 U	<0.0177 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	NS	mg/kg	<0.0182 U	<0.022 U	<0.0206 U	<0.0181 U	<0.0198 U	<0.0193 U	<0.0208 U	NA	NA	<0.0184 U	<0.0191 U	<0.0177 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	NS	mg/kg	<0.0182 U	<0.022 U	<0.0206 U	<0.0181 U	<0.0198 U	<0.0193 U	<0.0208 U	NA	NA	<0.0184 U	<0.0191 U	<0.0177 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	NS	mg/kg	<0.0182 U	<0.022 U	<0.0206 U	<0.0181 U	<0.0198 U	<0.0193 U	<0.0208 U	NA	NA	<0.0184 U	<0.0191 U	<0.0177 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	NS	mg/kg	<0.0182 U	<0.022 U	<0.0206 U	<0.0181 U	<0.0198 U	<0.0193 U	<0.0208 U	NA	NA	<0.0184 U	<0.0191 U	0.117
Total PCBs	1336-36-3	**0.1**	3.2	1	1	mg/kg	<0.0182 U	<0.022 U	<0.0206 U	<0.0181 U	<0.0198 U	<0.0193 U	<0.0208 U	NA	NA	<0.0184 U	<0.0191 U	**0.117**
Metals																		
Aluminum	7429-90-5	NS	NS	NS	NS	mg/kg	7,140	14,200	4,280	8,520	2,000	17,200	4,330	NA	NA	7,990	4,620	3,980
Antimony	7440-36-0	NS	NS	NS	NS	mg/kg	<2.79 U	4.54	<3.16 U	<2.74 U	<3.05 U	4.03	<3.14 U	NA	NA	<2.78 U	<2.91 U	<2.7 U
Arsenic	7440-38-2	13	16	16	16	mg/kg	3.74	<2.02 U	<1.9 U	2.22	<1.83 U	1.91	<1.88 U	NA	NA	<1.67 U	<1.74 U	5.38
Barium	7440-39-3	350	820	400	400	mg/kg	60.9	71.6	24.4	186	25.6	75.9	37	NA	NA	57.2	36.4	23.7
Beryllium	7440-41-7	7.2	47	72	590	mg/kg	<0.056 U	<0.067 U	<0.063 U	<0.055 U	<0.061 U	<0.059 U	<0.063 U	NA	NA	<0.056 U	<0.058 U	<0.054 U
Cadmium	7440-43-9	2.5	7.5	4.3	9.3	mg/kg	0.535	<0.403 U	<0.379 U	1.66	0.715	<0.352 U	<0.376 U	NA	NA	0.483	<0.349 U	0.348
Calcium	7440-70-2	NS	NS	NS	NS	mg/kg	55,900	3,180	2,330	20,600	799	2,640	967	NA	NA	19,300	1,900	89,400 B
Chromium, Hexavalent	18540-29-9	1	19	110	400	mg/kg	<0.858 U	<0.672 U	<0.632 U	<0.549 U	<0.609 U	<0.587 U	<0.627 U	NA	NA	<0.556 U	<0.581 U	<0.539 U
Chromium, Total	7440-47-3	NS	NS	NS	NS	mg/kg	15.4	30.1	11.6	67.8	6.49	24.5	12.3	NA	NA	19.5	14.5	8.78
Chromium, Trivalent	16065-83-1	**30**	NS	180	1500	mg/kg	15.4	**30.1**	11.6	**67.8**	6.49	24.5	12.3	NA	NA	19.5	14.5	8.78
Cobalt	7440-48-4	NS	NS	NS	NS	mg/kg	6.98	12.4	3.46	97.2	3.51	8.7	5.66	NA	NA	5.59	6.29	3.58
Copper	7440-50-8	**50**	1720	270	270	mg/kg	23.6	16.3	9.46	**173**	8.68	17.7	12.3	NA	NA	13.6	16.9	22
Cyanide	57-12-5	27	40	27	27	mg/kg	<0.558 U	<0.672 U	<0.632 U	<0.549 U	<0.609 U	<0.587 U	<0.627 U	NA	NA	<0.556 U	<0.581 U	<0.539 U
Iron	7439-89-6	NS	NS	NS	NS	mg/kg	10,600	28,000	10,700	5,860	1,400	20,800	16,300	NA	NA	8,350	19,000	7,300
Lead	7439-92-1	**63**	450	400	1000	mg/kg	**78.7**	13.2	7.37	**248**	3.2	36.7	1.25	NA	NA	**154**	5.69	35.7
Magnesium	7439-95-4	NS	NS	NS	NS	mg/kg	20,700	5,660	1,260	3,100	237	3,210	1,460	NA	NA	1,470	1,490	11,600
Manganese	7439-96-5	**1600**	2000	2000	10000	mg/kg	209	362	72.5	409	137	423	222	NA	NA	288	249	165
Mercury	7439-97-6	**0.18**	0.73	0.81	2.8	mg/kg	0.0986	0.0523	<0.0379 U	0.118	<0.0366 U	0.0447	<0.0376 U	NA	NA	0.069	<0.0349 U	0.0665
Nickel	7440-02-0	30	130	310	310	mg/kg	9.44	24.7	9.18	7.05	<1.22 U	19.8 J	10.7 J	NA	NA	9.04	10.4	10.8
Potassium	7440-09-7	NS	NS	NS	NS	mg/kg	758	2,970	787	691	158	1,160	1,500	NA	NA	638 B	979 B	576 B
Selenium	7782-49-2	**3.9**	4	180	1500	mg/kg	**4.42**	<3.36 U	<3.16 U	<2.74 U	<3.05 U	<2.93 U	<3.14 U	NA	NA	<2.78 U	<2.91 U	**8.63**
Silver	7440-22-4	2	8.3	180	1500	mg/kg	<0.558 U	<0.672 U	<0.632 U	<0.549 U	<0.609 U	<0.587 U	<0.627 U	NA	NA	<0.556 U	<0.581 U	<0.539 U
Sodium	7440-23-5	NS	NS	NS	NS	mg/kg	129	270	102	136	<60.9 U	180	<62.7 U	NA	NA	110	85.7	176
Thallium	7440-28-0	NS	NS	NS	NS	mg/kg	<2.79 U	<3.36 U	<3.16 U	<2.74 U	<3.05 U	<2.93 U	<3.14 U	NA	NA	<2.78 U	<2.91 U	<2.7 U
Vanadium	7440-62-2	NS	NS	NS	NS	mg/kg	35.4	39.5	16.5	32.2	11.2	34.9	20.1	NA	NA	20.7	17.4	18.3
Zinc	7440-66-6	**109**	2480	10000	10000	mg/kg	69	102	27.4	**1,210**	14.6	60.7	22.7	NA	NA	48.3	27	51.6
General Chemistry																		
Solids, Percent	SOLID	NS	NS	NS	NS	Percent	89.6	74.4	79.1	91.1	82.1	85.2	79.7	93.9	92.2	89.9	86	92.8
Perfluorooctanoic acids																		
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	NS	NS	NS	mg/kg	<0.000256 U	<0.000256 U	<0.000276 U	<0.000253 U	<0.000301 U	NA	NA	NA	NA	<0.00025 U	<0.000263 U	<0.00026 U
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOSA/	2355-31-9	NS	NS	NS	NS	mg/kg	<0.000256 U	<0.000256 U	<0.000276 U	<0.000253 U	<0.000301 U	NA	NA	NA	NA	<0.00025 U	<0.000263 U	<0.00026 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	NS	mg/kg	<0.000256 U	<0.000256 U	<0.000276 U	<0.000253 U	<0.000301 U	NA	NA	NA	NA	<0.00025 U	<0.000263 U	<0.00026 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	NS	mg/kg	<0.000256 U	0.000892	<0.000276 U	<0.000253 U	<0.000301 U	NA	NA	NA	NA	<0.00025 U	<0.000263 U	<0.00026 U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	NS	mg/kg	<0.000256 U	<0.000256 U	<0.000276 U	<0.000253 U	<0.000301 U	NA	NA	NA	NA	<0.00025 U	<0.000263 U	<0.00026 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	NS	mg/kg	<0.000256 U	<0.000256 U	<0.000276 U	<0.000253 U	<0.000301 U	NA	NA	NA	NA	<0.00025 U	<0.000263 U	<0.00026 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	NS	mg/kg	<0.000256 U	<0.000256 U	<0.000276 U	<0.000253 U	<0.000301 U	NA	NA	NA	NA	<0.00025 U	<0.000263 U	<0.00026 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	NS	mg/kg	<0.000256 U	<0.000256 U	<0.000276 U	<0.000253 U	<0.000301 U	NA	NA	NA	NA	<0.00025 U	<0.000263 U	<0.00026 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	NS	mg/kg	<0.000256 U	<0.000256 U	<0.000276 U	<0.000253 U	<0.000301 U	NA	NA	NA	NA	<0.00025 U	<0.000263 U	<0.00026 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	NS	mg/kg	<0.000256 U	<0.000256 U	<0.000276 U	<0.000253 U	<0.000301 U	NA	NA	NA	NA	<0.00025 U	<0.000263 U	<0.00026 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	NS	mg/kg	<0.000256 U	<0.000256 U	<0.000276 U	<0.000253 U	<0.000301 U	NA	NA	NA	NA	<0.00025 U	<0.000263 U	<0.00026 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	NS	mg/kg	<0.000256 U	<0.000256 U	<0.000276 U	<0.000253 U	<0.000301 U	NA	NA	NA	NA	<0.00025 U	<0.000263 U	<0.00026 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	NS	mg/kg	<0.000256 U	<0.000256 U	<0.000276 U	<0.000253 U	<0.000301 U	NA	NA	NA	NA	<0.00025 U	<0.000263 U	<0.00026 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.044	0.44	mg/kg	**0.000995**	**0.00209**	<0.000276 U	0.000517	<0.000301 U	NA	NA	NA	NA	<0.00025 U	<0.000263 U	0.000431
Perfluorooctanoic Acid (PFOA)	335-67-1	0.00066	0.0011	0.033	0.5	mg/kg	<0.000256 U	<0.000256 U	<0.000276 U	<0.000253 U	<0.000301 U	NA	NA	NA	NA	<0.00025 U	<0.000263 U	<0.00026 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	NS	mg/kg	<0.000256 U	<0.000256 U	<0.000276 U	<0.000253 U	<0.000301 U	NA	NA	NA	NA	<0.00025 U	<0.000263 U	<0.00026 U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	NS	mg/kg	<0.000256 U	<0.000256 U	<0.000276 U	<0.000253 U	<0.000301 U	NA	NA	NA	NA	<0.00025 U	<0.000263 U	<0.00026 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	NS	mg/kg	<0.000256 U	<0.000256 U	<0.000276 U	<0.000253 U	<0.000301 U	NA	NA	NA	NA	<0.00025 U	<0.000263 U	<0.00026 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	NS	mg/kg	<0.000256 U	<0.000256 U	<0.000276 U	<0.000253 U	<0.000301 U	NA	NA	NA	NA	<0.00025 U	<0.000263 U	<0.00026 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FTS	39108-34-4	NS	NS	NS	NS	mg/kg	<0.000256 U	<0.000256 U	<0.000276 U	<0.000253 U	<0.000301 U	NA	NA	NA	NA	<0.00025 U	<0.000263 U	<0.00026 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FTS	27619-97-2	NS	NS	NS	NS	mg/kg	<0.000256 U	<0.000256 U	<0.000276 U	<0.000253 U	<0.000301 U	NA	NA	NA	NA	<0.00025 U	<0.000263 U	<0.00026 U

Notes provided on Page 7.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3G
Remedial Investigation Report
Soil Sample Analytical Results - Block 1820 (K)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	K-SB102	K-SB103	K-SB103	K-SB104	K-SB104	K-SB104	K-SB105	K-SB105	K-SB105	K-SB107	K-SB107	K-SB107
						Sample Name	K-SB102_10-12	K-SB103_0-2	K-SB103_10-12	K-SB104_0-2	K-SB104_5-7	K-SB104_10-12	K-SB105_0-2	K-SB105_6-8	K-SB105_9-11	K-SB107_0-2	DUP07_092421	K-SB107_11-13
						Sample Date	09/24/2021	09/24/2021	09/24/2021	09/24/2021	09/24/2021	09/24/2021	09/27/2021	09/27/2021	09/27/2021	09/24/2021	09/24/2021	09/24/2021
						Sample Depth	10-12	0-2	10-12	0-2	5-7	10-12	0-2	6-8	9-11	0-2	0-2	11-13
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																		
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	500	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
1,1-Dichloroethane	75-34-3	0.27	0.27	26	240	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
1,1-Dichloroethene	75-35-4	0.33	0.33	100	500	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
1,2,4-Trimethylbenzene	95-63-6	3.6	3.6	52	190	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	500	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
1,2-Dichloroethane	107-06-2	0.02	0.02	3.1	30	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	52	190	mg/kg	<0.0023 U	<0.0031 U	0.0024 J	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	280	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	130	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.047 U	<0.062 U	<0.047 U	<0.041 U	<0.047 U	<0.052 U	<0.065 U	<0.075 U	<0.09 U	<0.045 U	<0.047 U	<0.049 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
Acetone	67-64-1	**0.05**	0.05	100	500	mg/kg	<0.0047 U	0.012 J	0.02	0.048	0.042	0.014 J	0.04	**0.16**	**0.063**	**0.062**	0.042	0.043
Acrolein	107-02-8	NS	NS	NS	NS	mg/kg	<0.0047 U	<0.0062 U	<0.0047 U	<0.0041 U	<0.0047 U	<0.0052 U	<0.0065 U	<0.0075 U	<0.009 U	<0.0045 U	0.0063 J	<0.0049 U
Acrylonitrile	107-13-1	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
Benzene	71-43-2	0.06	0.06	4.8	44	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
Bromochloromethane	74-97-5	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
Bromodichloromethane	75-27-4	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
Bromoform	75-25-2	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
Bromomethane	74-83-9	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
Carbon Disulfide	75-15-0	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	0.0026 J	<0.0026 U	<0.0032 U	<0.0037 U	0.0066 J	<0.0023 U	<0.0023 U	0.0062
Carbon Tetrachloride	56-23-5	0.76	0.76	2.4	22	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
Chlorobenzene	108-90-7	1.1	1.1	100	500	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
Chloroethane	75-00-3	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
Chloroform	67-66-3	0.37	0.37	49	350	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
Chloromethane	74-87-3	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	100	500	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	0.0041 J	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
Cyclohexane	110-82-7	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
Dibromochloromethane	124-48-1	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
Dibromomethane	74-95-3	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
Ethylbenzene	100-41-4	1	1	41	390	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
M,P-Xylene	179601-23-1	NS	NS	NS	NS	mg/kg	<0.0047 U	<0.0062 U	<0.0047 U	<0.0041 U	<0.0047 U	<0.0052 U	<0.0065 U	<0.0075 U	<0.009 U	<0.0045 U	<0.0047 U	<0.0049 U
Methyl Acetate	79-20-9	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	0.12	0.12	100	500	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	0.0093	0.0089	<0.0026 U	0.011	0.034	0.015	0.017 J	0.0052 J	0.0045 J
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
Methylcyclohexane	108-87-2	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
Methylene Chloride	75-09-2	0.05	0.05	100	500	mg/kg	<0.0047 U	<0.0062 U	<0.0047 U	<0.0041 U	<0.0047 U	0.0089 J	<0.0065 U	<0.015 U	<0.009 U	<0.0045 U	<0.0047 U	<0.0049 U
n-Butylbenzene	104-51-8	12	12	100	500	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 UJ	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
n-Propylbenzene	103-65-1	3.9	3.9	100	500	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	0.014
Sec-Butylbenzene	135-98-8	11	11	100	500	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
Styrene	100-42-5	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
T-Butylbenzene	98-06-6	5.9	5.9	100	500	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
Tert-Butyl Alcohol	75-65-0	NS	NS	NS	NS	mg/kg	<0.0023 UJ	<0.0031 UJ	<0.0024 UJ	<0.0021 U	<0.0023 UJ	<0.0026 UJ	0.0076	<0.0037 U	0.0091 J	<0.0023 UJ	<0.0023 U	<0.0025 UJ
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	100	500	mg/kg	<0.0023 U	0.0031 J	<0.0024 U	<0.0021 U	<0.0023 U	0.0051 J	<0.0032 U	<0.0037 U	0.017	<0.0023 U	<0.0023 U	<0.0025 U
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	19	150	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
Toluene	108-88-3	0.7	0.7	100	500	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
Total Xylenes	1330-20-7	0.26	1.6	100	500	mg/kg	<0.007 U	<0.0093 U	<0.0071 U	<0.0062 U	<0.007 U	<0.0078 U	<0.0097 U	<0.011 U	<0.013 U	<0.0068 U	<0.007 U	<0.0074 U
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	100	500	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	0.0036 J	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
Trichloroethene (TCE)	79-01-6	0.47	0.47	21	200	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	NS	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	<0.0023 U	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U
Vinyl Chloride	75-01-4	0.02	0.02	0.9	13	mg/kg	<0.0023 U	<0.0031 U	<0.0024 U	<0.0021 U	0.0029 J	<0.0026 U	<0.0032 U	<0.0037 U	<0.0045 U	<0.0023 U	<0.0023 U	<0.0025 U

Notes provided on Page 7.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3G
Remedial Investigation Report
Soil Sample Analytical Results - Block 1820 (K)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	K-SB102	K-SB103	K-SB103	K-SB104	K-SB104	K-SB104	K-SB105	K-SB105	K-SB105	K-SB107	K-SB107	K-SB107
						Sample Name	K-SB102_10-12	K-SB103_0-2	K-SB103_10-12	K-SB104_0-2	K-SB104_5-7	K-SB104_10-12	K-SB105_0-2	K-SB105_6-8	K-SB105_9-11	K-SB107_0-2	DUP07_092421	K-SB107_11-13
						Sample Date	09/24/2021	09/24/2021	09/24/2021	09/24/2021	09/24/2021	09/24/2021	09/27/2021	09/27/2021	09/27/2021	09/24/2021	09/24/2021	09/24/2021
						Sample Depth	10-12	0-2	10-12	0-2	5-7	10-12	0-2	6-8	9-11	0-2	0-2	11-13
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																		
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	NS	mg/kg	<0.093 U	<0.0915 U	<0.0898 U	<0.0892 U	<0.0915 U	<0.101 U	<0.413 U	<0.12 U	<0.137 U	<0.0865 U	<0.0878 U	<0.0937 U
1,2-Diphenylhydrazine	122-66-7	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 U	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	130	mg/kg	<0.0185 U	<0.0189 U	<0.0194 U	<0.019 U	<0.0194 U	<0.0187 U	<0.0189 U	<0.019 U	<0.0196 U	<0.0192 U	<0.0194 U	<0.0192 U
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	NS	mg/kg	<0.093 U	<0.0915 UJ	<0.0898 U	<0.0892 U	<0.0915 U	<0.101 U	<0.413 U	<0.12 U	<0.137 U	<0.0865 U	<0.0878 U	<0.0937 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 UJ	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 UJ	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 UJ	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 UJ	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	NS	mg/kg	<0.093 U	<0.0915 UJ	<0.0898 U	<0.0892 U	<0.0915 U	<0.101 U	<0.413 U	<0.12 U	<0.137 U	<0.0865 U	<0.0878 U	<0.0937 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 U	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 U	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 U	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
2-Chlorophenol	95-57-8	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 UJ	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 U	<0.045 U	<0.0447 U	0.0944 D	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	0.0575 JD	<0.047 U
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	500	mg/kg	<0.0466 U	<0.0458 UJ	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
2-Nitroaniline	88-74-4	NS	NS	NS	NS	mg/kg	<0.093 U	<0.0915 U	<0.0898 U	<0.0892 U	<0.0915 U	<0.101 U	<0.413 U	<0.12 U	<0.137 U	<0.0865 U	<0.0878 U	<0.0937 U
2-Nitrophenol	88-75-5	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 UJ	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	0.33	0.33	100	500	mg/kg	<0.0466 U	<0.0458 UJ	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 U	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
3-Nitroaniline	99-09-2	NS	NS	NS	NS	mg/kg	<0.093 U	<0.0915 U	<0.0898 U	<0.0892 U	<0.0915 U	<0.101 U	<0.413 U	<0.12 U	<0.137 U	<0.0865 U	<0.0878 U	<0.0937 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	NS	mg/kg	<0.093 U	<0.0915 UJ	<0.0898 U	<0.0892 U	<0.0915 U	<0.101 U	<0.413 U	<0.12 U	<0.137 U	<0.0865 U	<0.0878 U	<0.0937 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 U	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 UJ	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
4-Chloroaniline	106-47-8	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 U	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 U	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
4-Nitroaniline	100-01-6	NS	NS	NS	NS	mg/kg	<0.093 U	<0.0915 U	<0.0898 U	<0.0892 U	<0.0915 U	<0.101 U	<0.413 U	<0.12 U	<0.137 U	<0.0865 U	<0.0878 U	<0.0937 U
4-Nitrophenol	100-02-7	NS	NS	NS	NS	mg/kg	<0.093 U	<0.0915 UJ	<0.0898 U	<0.0892 U	<0.0915 U	<0.101 U	<0.413 U	<0.12 U	<0.137 U	<0.0865 U	<0.0878 U	<0.0937 U
Acenaphthene	83-32-9	20	98	100	500	mg/kg	<0.0466 U	0.0885 JD	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	0.25 D	<0.047 U
Acenaphthylene	208-96-8	100	107	100	500	mg/kg	<0.0466 U	<0.0458 U	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	0.0449 JD	0.17 D	<0.047 U
Acetophenone	98-86-2	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 U	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	NS	NS	NS	mg/kg	<0.186 U	<0.183 U	<0.18 U	<0.179 U	<0.183 U	<0.202 U	<0.828 U	<0.241 U	<0.275 U	<0.173 U	<0.176 U	<0.188 U
Anthracene	120-12-7	100	1000	100	500	mg/kg	<0.0466 U	0.112 D	0.056 JD	0.0521 JD	0.0534 JD	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	0.166 J	0.961 J	<0.047 U
Atrazine	1912-24-9	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 U	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
Benzaldehyde	100-52-7	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 U	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
Benzidine	92-87-5	NS	NS	NS	NS	mg/kg	<0.186 U	<0.183 U	<0.18 U	<0.179 U	<0.183 U	<0.202 U	<0.828 U	<0.241 U	<0.275 U	<0.173 U	<0.176 U	<0.188 U
Benzo(a)anthracene	56-55-3	**1**	1	1	5.6	mg/kg	<0.0466 U	0.255 D	0.136 D	0.173 D	0.154 D	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	0.832 J	**2.29 J**	<0.047 U
Benzo(a)pyrene	50-32-8	**1**	22	1	1	mg/kg	<0.0466 U	0.219 D	0.108 D	0.153 D	0.18 D	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	0.987 J	**2.24 J**	<0.047 U
Benzo(b)fluoranthene	205-99-2	**1**	1.7	1	5.6	mg/kg	<0.0466 U	0.188 D	0.0854 JD	0.123 D	0.157 D	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	0.754 J	**1.34 J**	<0.047 U
Benzo(g,h,i)Perylene	191-24-2	100	1000	100	500	mg/kg	<0.0466 U	0.11 D	<0.045 U	0.0792 JD	0.109 D	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	0.604 D	0.633 D	<0.047 U
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	3.9	56	mg/kg	<0.0466 U	0.195 D	0.089 JD	0.143 D	0.127 D	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	0.773 J	**1.88 J**	<0.047 U
Benzoic Acid	65-85-0	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 U	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
Benzyl Alcohol	100-51-6	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 U	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 U	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 U	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 U	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 U	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 U	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	NS	mg/kg	<0.0466 U	0.156 D	<0.045 U	0.152 D	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	0.165 D	0.221 D	<0.047 U
Caprolactam	105-60-2	NS	NS	NS	NS	mg/kg	<0.093 U	<0.0915 U	<0.0898 U	<0.0892 U	<0.0915 U	<0.101 U	<0.413 U	<0.12 U	<0.137 U	<0.0865 U	<0.0878 U	<0.0937 U
Carbazole	86-74-8	NS	NS	NS	NS	mg/kg	<0.0466 U	0.068 JD	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	0.0638 JD	<0.047 U
Chrysene	218-01-9	**1**	1	3.9	56	mg/kg	<0.0466 U	0.243 D	0.12 D	0.166 D	0.143 D	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	0.752 J	**2.15 J**	<0.047 U
Dibenz(a,h)anthracene	53-70-3	0.33	1000	0.33	0.56	mg/kg	<0.0466 U	<0.0458 U	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	0.222 D	0.297 D	<0.047 U
Dibenzofuran	132-64-9	7	210	59	350	mg/kg	<0.0466 U	<0.0458 U	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	0.163 D	<0.047 U
Dibutyl phthalate	84-74-2	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 U	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
Diethyl phthalate	84-66-2	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 U	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
Dimethyl phthalate	131-11-3	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 U	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
Dioctyl phthalate	117-84-0	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 U	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
Diphenylamine	122-39-4	NS	NS	NS	NS	mg/kg	<0.093 U	<0.0915 U	<0.0898 U	<0.0892 U	<0.0915 U	<0.101 U	<0.413 U	<0.12 U	<0.137 U	<0.0865 U	<0.0878 U	<0.0937 U
Fluoranthene	206-44-0	100	1000	100	500	mg/kg	<0.0466 U	0.517 D	0.232 D	0.26 D	0.306 D	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	1.37 J	4.01 J	0.0495 JD
Fluorene	86-73-7	30	386	100	500	mg/kg	<0.0466 U	0.0526 JD	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	0.0498 J	0.447 J	<0.047 U
Hexachlorobenzene	118-74-1	0.33	3.2	1.2	6	mg/kg	<0.0466 U	<0.0458 U	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 U	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 U	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
Hexachloroethane	67-72-1	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 U	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	0.5	5.6	mg/kg	<0.0466 U	0.104 D	0.0481 JD	0.077 JD	0.119 D	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	**0.559 D**	**0.751 D**	<0.047 U
Isophorone	78-59-1	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 U	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
Naphthalene	91-20-3	12	12	100	500	mg/kg	<0.0466 U	<0.0458 U	<0.045 U	<0.0447 U	0.0688 JD	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	0.0723 JD	<0.047 U
Nitrobenzene	98-95-3	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 U	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
n-Nitrosodimethylamine	62-75-9	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 U	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 U	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	NS	mg/kg	<0.0466 U	<0.0458 U	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	6.7	mg/kg	<0.0466 U	<0.0458 UJ	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
Phenanthrene	85-01-8	100	1000	100	500	mg/kg	<0.0466 U	0.412 D	0.159 D	0.178 D	0.171 D	<0.0506 U	0.211 JD	<0.0603 U	<0.0688 U	0.391 J	3.24 J	<0.047 U
Phenol	108-95-2	0.33	0.33	100	500	mg/kg	<0.0466 U	<0.0458 UJ	<0.045 U	<0.0447 U	<0.0459 U	<0.0506 U	<0.207 U	<0.0603 U	<0.0688 U	<0.0433 U	<0.044 U	<0.047 U
Pyrene	129-00-0	100	1000	100	500	mg/kg	<0.0466 U	0.486 D	0.215 D	0.319 D	0.255 D	<0.0506 U	0.291 JD	<0.0603 U	<0.0688 U	1.39 J	5.17 J	0.057 JD
Pyridine	110-86-1	NS	NS	NS	NS	mg/kg	<0.186 U	<0.183 U	<0.18 U	<0.179 U	<0.183 U	<0.202 U	<0.828 U	<0.241 U	<0.275 U	<0.173 U	<0.176 U	<0.188 U

Notes provided on Page 7.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3G
Remedial Investigation Report
Soil Sample Analytical Results - Block 1820 (K)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Location	K-SB102	K-SB103	K-SB103	K-SB104	K-SB104	K-SB104	K-SB105	K-SB105	K-SB105	K-SB107	K-SB107	K-SB107
						Sample Name	K-SB102_10-12	K-SB103_0-2	K-SB103_10-12	K-SB104_0-2	K-SB104_5-7	K-SB104_10-12	K-SB105_0-2	K-SB105_6-8	K-SB105_9-11	K-SB107_0-2	DUP07_092421	K-SB107_11-13
						Sample Date	09/24/2021	09/24/2021	09/24/2021	09/24/2021	09/24/2021	09/24/2021	09/27/2021	09/27/2021	09/27/2021	09/24/2021	09/24/2021	09/24/2021
						Sample Depth	10-12	0-2	10-12	0-2	5-7	10-12	0-2	6-8	9-11	0-2	0-2	11-13
						Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Pesticides																		
4,4'-DDD	72-54-8	**0.0033**	14	13	92	mg/kg	<0.0018 U	<0.0018 U	<0.00176 U	**0.00921 D**	**0.0079 J**	<0.00199 U	<0.00166 U	<0.00236 U	<0.00269 U	<0.00169 U	<0.00173 U	<0.00184 U
4,4'-DDE	72-55-9	0.0033	17	8.9	62	mg/kg	<0.0018 U	<0.0018 U	<0.00176 U	<0.00175 U	<0.00179 U	<0.00199 U	<0.00166 U	<0.00236 U	<0.00269 U	<0.00169 U	<0.00173 U	<0.00184 U
4,4'-DDT	50-29-3	0.0033	136	7.9	47	mg/kg	<0.0018 U	<0.0018 U	<0.00176 U	<0.00175 U	<0.00179 U	<0.00199 U	<0.00166 U	<0.00236 U	<0.00269 U	<0.00169 U	<0.00173 U	<0.00184 U
Aldrin	309-00-2	0.005	0.19	0.097	0.68	mg/kg	<0.0018 U	<0.0018 U	<0.00176 U	<0.00175 U	<0.00179 U	<0.00199 U	<0.00166 U	<0.00236 U	<0.00269 U	<0.00169 U	<0.00173 U	<0.00184 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	0.48	3.4	mg/kg	<0.0018 U	<0.0018 U	<0.00176 U	<0.00175 U	<0.00179 U	<0.00199 U	<0.00166 U	<0.00236 U	<0.00269 U	<0.00169 U	<0.00173 U	<0.00184 U
Alpha Chlordane	5103-71-9	**0.094**	2.9	4.2	24	mg/kg	<0.0018 U	<0.0018 U	<0.00176 U	<0.00175 U	<0.00179 U	<0.00199 U	<0.00166 U	<0.00236 U	<0.00269 U	<0.00169 U	<0.00173 U	<0.00184 U
Alpha Endosulfan	959-98-8	2.4	102	24	200	mg/kg	<0.0018 U	<0.0018 U	<0.00176 U	<0.00175 U	<0.00179 U	<0.00199 U	<0.00166 U	<0.00236 U	<0.00269 U	<0.00169 U	<0.00173 U	<0.00184 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	0.36	3	mg/kg	<0.0018 U	<0.0018 U	<0.00176 U	<0.00175 U	<0.00179 U	<0.00199 U	<0.00166 U	<0.00236 U	<0.00269 U	<0.00169 U	<0.00173 U	<0.00184 U
Beta Endosulfan	33213-65-9	2.4	102	24	200	mg/kg	<0.0018 U	<0.0018 U	<0.00176 U	<0.00175 U	<0.00179 U	<0.00199 U	<0.00166 U	<0.00236 U	<0.00269 U	<0.00169 U	<0.00173 U	<0.00184 U
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	NS	mg/kg	<0.036 U	<0.0361 U	<0.0353 U	<0.0351 U	<0.0357 U	<0.0397 U	<0.0332 U	<0.0472 U	<0.0538 U	<0.0339 U	<0.0346 U	<0.0369 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	**0.04**	0.25	100	500	mg/kg	<0.0018 U	<0.0018 U	<0.00176 U	<0.00175 U	**0.261 J**	<0.00199 U	<0.00166 U	<0.00236 U	<0.00269 U	<0.00169 U	<0.00173 U	<0.00184 U
Dieldrin	60-57-1	**0.005**	0.1	0.2	1.4	mg/kg	<0.0018 U	<0.0018 U	<0.00176 U	<0.00175 U	<0.00179 U	<0.00199 U	<0.00166 U	<0.00236 U	<0.00269 U	<0.00169 U	<0.00173 U	<0.00184 U
Endosulfan Sulfate	1031-07-8	2.4	1000	24	200	mg/kg	<0.0018 U	<0.0018 U	<0.00176 U	0.00397 D	<0.00179 U	<0.00199 U	<0.00166 U	<0.00236 U	<0.00269 U	<0.00169 U	<0.00173 U	<0.00184 U
Endrin	72-20-8	0.014	0.06	11	89	mg/kg	<0.0018 U	<0.0018 U	<0.00176 U	<0.00175 U	<0.00179 U	<0.00199 U	<0.00166 U	<0.00236 U	<0.00269 U	<0.00169 U	<0.00173 U	<0.00184 U
Endrin Aldehyde	7421-93-4	NS	NS	NS	NS	mg/kg	<0.0018 U	<0.0018 U	<0.00176 U	<0.00175 U	<0.00179 U	<0.00199 U	<0.00166 U	<0.00236 U	<0.00269 U	<0.00169 U	<0.00173 U	<0.00184 U
Endrin Ketone	53494-70-5	NS	NS	NS	NS	mg/kg	<0.0018 U	<0.0018 U	<0.00176 U	<0.00175 U	<0.00179 U	<0.00199 U	<0.00166 U	<0.00236 U	<0.00269 U	<0.00169 U	<0.00173 U	<0.00184 U
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	1.3	9.2	mg/kg	<0.0018 U	<0.0018 U	<0.00176 U	<0.00175 U	<0.00179 U	<0.00199 U	<0.00166 U	<0.00236 U	<0.00269 U	<0.00169 U	<0.00173 U	<0.00184 U
Gamma-Chlordane	5566-34-7	NS	NS	NS	NS	mg/kg	<0.0018 U	<0.0018 U	<0.00176 U	<0.00175 U	<0.00179 U	<0.00199 U	<0.00166 U	<0.00236 U	<0.00269 U	<0.00169 U	<0.00173 U	<0.00184 U
Heptachlor	76-44-8	0.042	0.38	2.1	15	mg/kg	<0.0018 U	<0.0018 U	<0.00176 U	<0.00175 U	<0.00179 U	<0.00199 U	<0.00166 U	<0.00236 U	<0.00269 U	<0.00169 U	<0.00173 U	<0.00184 U
Heptachlor Epoxide	1024-57-3	NS	NS	NS	NS	mg/kg	<0.0018 U	<0.0018 U	<0.00176 U	<0.00175 U	<0.00179 U	<0.00199 U	<0.00166 U	<0.00236 U	<0.00269 U	<0.00169 U	<0.00173 U	<0.00184 U
Methoxychlor	72-43-5	NS	NS	NS	NS	mg/kg	<0.0018 U	<0.0018 U	<0.00176 U	<0.00175 U	<0.00179 U	<0.00199 U	<0.00166 U	<0.00236 U	<0.00269 U	<0.00169 U	<0.00173 U	<0.00184 U
Toxaphene	8001-35-2	NS	NS	NS	NS	mg/kg	<0.18 U	<0.18 U	<0.176 U	<0.175 U	<0.179 U	<0.199 U	<0.166 U	<0.236 U	<0.269 U	<0.169 U	<0.173 U	<0.184 U
Herbicides																		
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	NS	mg/kg	<0.0221 U	<0.0218 U	<0.0216 U	<0.0214 U	<0.0219 U	<0.0241 U	<0.0168 U	<0.0241 U	<0.0277 U	<0.0208 U	<0.021 U	<0.0225 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	NS	mg/kg	<0.0221 U	<0.0218 U	<0.0216 U	<0.0214 U	<0.0219 U	<0.0241 U	<0.0168 U	<0.0241 U	<0.0277 U	<0.0208 U	<0.021 U	<0.0225 U
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	100	500	mg/kg	<0.0221 U	<0.0218 U	<0.0216 U	<0.0214 U	<0.0219 U	<0.0241 U	<0.0168 U	<0.0241 U	<0.0277 U	<0.0208 U	<0.021 U	<0.0225 U
Polychlorinated Biphenyl																		
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	NS	mg/kg	<0.0181 U	<0.0182 U	<0.0178 U	<0.0177 U	<0.018 U	<0.0201 U	<0.0168 U	<0.0238 U	<0.0272 U	<0.0171 UJ	<0.0175 U	<0.0186 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	NS	mg/kg	<0.0181 U	<0.0182 U	<0.0178 U	<0.0177 U	<0.018 U	<0.0201 U	<0.0168 U	<0.0238 U	<0.0272 U	<0.0171 UJ	<0.0175 U	<0.0186 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	NS	mg/kg	<0.0181 U	<0.0182 U	<0.0178 U	<0.0177 U	<0.018 U	<0.0201 U	<0.0168 U	<0.0238 U	<0.0272 U	<0.0171 UJ	<0.0175 U	<0.0186 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	NS	mg/kg	<0.0181 U	<0.0182 U	<0.0178 U	<0.0177 U	<0.018 U	<0.0201 U	<0.0168 U	<0.0238 U	<0.0272 U	<0.0171 UJ	<0.0175 U	<0.0186 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	NS	mg/kg	<0.0181 U	<0.0182 U	<0.0178 U	<0.0177 U	<0.018 U	<0.0201 U	<0.0168 U	<0.0238 U	<0.0272 U	<0.0171 UJ	<0.0175 U	<0.0186 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	NS	mg/kg	<0.0181 U	<0.0182 U	<0.0178 U	<0.0177 U	<0.018 U	<0.0201 U	<0.0168 U	<0.0238 U	<0.0272 U	<0.0171 UJ	<0.0175 U	<0.0186 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	NS	mg/kg	<0.0181 U	<0.0182 U	<0.0178 U	0.0896	0.031	<0.0201 U	<0.0168 U	<0.0238 U	<0.0272 U	<0.0171 UJ	<0.0175 U	<0.0186 U
Total PCBs	1336-36-3	**0.1**	3.2	1	1	mg/kg	<0.0181 U	<0.0182 U	<0.0178 U	0.0896	0.0779	<0.0201 U	<0.0168 U	<0.0238 U	<0.0272 U	<0.0171 UJ	<0.0175 U	<0.0186 U
Metals																		
Aluminum	7429-90-5	NS	NS	NS	NS	mg/kg	3,550	5,100	2,020	8,080	8,280	3,730	4,110	18,100	16,800	8,190	7,670	4,060
Antimony	7440-36-0	NS	NS	NS	NS	mg/kg	<2.81 U	<2.76 U	<2.72 U	<2.69 U	<2.76 U	<3.05 U	<2.54 U	<3.64 U	<4.18 U	<2.62 UJ	<2.65 U	<2.83 U
Arsenic	7440-38-2	13	16	16	16	mg/kg	<1.68 U	5.17	<1.63 U	<1.62 U	1.67	<1.83 U	<1.53 U	2.19	5.68	2.47	<1.59 U	<1.7 U
Barium	7440-39-3	350	820	400	400	mg/kg	32.3	51.3	18.1	105	175	34.1	31	53.5	50.8	85.9	53.4	36.1
Beryllium	7440-41-7	7.2	47	72	590	mg/kg	<0.056 U	<0.055 U	<0.054 U	<0.054 U	<0.055 U	<0.061 U	<0.051 U	<0.073 U	<0.084 U	<0.052 U	<0.053 U	<0.057 U
Cadmium	7440-43-9	2.5	7.5	4.3	9.3	mg/kg	<0.337 U	0.479	<0.326 U	0.4	0.435	<0.366 U	0.346	2.49	0.767	<0.314 U	0.484	<0.339 U
Calcium	7440-70-2	NS	NS	NS	NS	mg/kg	2,160 B	22,400 B	2,910 B	10,800 B	16,500 B	1,930 B	13,900	4,230	4,440	14,900 J	19,700 B	5,720 B
Chromium, Hexavalent	18540-29-9	1	19	110	400	mg/kg	<0.561 U	<0.552 U	<0.544 U	<0.538 U	<0.552 U	<0.61 U	<0.509 U	<0.729 U	<0.837 U	<0.524 UJ	<0.53 U	<0.566 U
Chromium, Total	7440-47-3	NS	NS	NS	NS	mg/kg	12.4	28.4	8.53	25.2	23.9	11	18	37.4	35.3	23	29.2	14
Chromium, Trivalent	16065-83-1	**30**	NS	180	1500	mg/kg	12.4	28.4	8.53	25.2	23.9	11	18	**37.4**	**35.3**	23	29.2	14
Cobalt	7440-48-4	NS	NS	NS	NS	mg/kg	5.4	4.11	4.71	11	7.17	5.26	4.56	12.5	12.3	7.09	6.56	5.59
Copper	7440-50-8	**50**	1720	270	270	mg/kg	13.2	25.2	10.2	**82.3**	**66.4**	10.1	14	13.3	20.3	40.3 J	35.8	13.8
Cyanide	57-12-5	27	40	27	27	mg/kg	<0.561 U	<0.552 U	<0.544 U	<0.538 U	<0.552 U	<0.61 U	<0.509 U	<0.729 U	<0.837 U	<0.524 U	<0.53 U	<0.566 U
Iron	7439-89-6	NS	NS	NS	NS	mg/kg	13,100	11,100	10,600	20,300	16,700	14,800	6,500	2,490	26,400	15,900	14,000	16,200
Lead	7439-92-1	**63**	450	400	1000	mg/kg	38.3	**81.2**	6.36	**111**	**122**	7.48	13.9	11	26.8	**76.4**	61.9	8.46
Magnesium	7439-95-4	NS	NS	NS	NS	mg/kg	1,980	3,090	1,370	3,870	6,320	1,290	1,490	1,330	5,870	5,740 J	6,810	2,580
Manganese	7439-96-5	**1600**	2000	2000	10000	mg/kg	182	175	131	531	239	198	171	**1,710**	877	251	220	196
Mercury	7439-97-6	**0.18**	0.73	0.81	2.8	mg/kg	<0.0337 U	0.131	0.134	0.138	0.126	<0.0366 U	<0.0305 U	<0.0437 U	**0.243**	0.08	0.0981	<0.0339 U
Nickel	7440-02-0	30	130	310	310	mg/kg	12.2	12.9	7.78	20.6	17.4	8.85	11.8	<1.46 U	16.9	16.3	15.4	11.7
Potassium	7440-09-7	NS	NS	NS	NS	mg/kg	1,090 B	903 B	603 B	1,380 B	1,360 B	1,200 B	527	816	3,040	1,270 B	1,200 B	1,320 B
Selenium	7782-49-2	**3.9**	4	180	1500	mg/kg	<2.81 U	<2.76 U	<2.72 U	<2.69 U	<2.76 U	<3.05 U	<2.54 U	<3.64 U	<4.18 U	<2.62 U	<2.65 U	<2.83 U
Silver	7440-22-4	2	8.3	180	1500	mg/kg	<0.561 U	<0.552 U	<0.544 U	<0.538 U	<0.552 U	<0.61 U	<0.509 U	<0.729 U	<0.837 U	<0.524 UJ	<0.53 U	<0.566 U
Sodium	7440-23-5	NS	NS	NS	NS	mg/kg	58.7	210	88.8	173	163	95.6	65.6	77.7	1,010	239 J	259	120
Thallium	7440-28-0	NS	NS	NS	NS	mg/kg	<2.81 U	<2.76 U	<2.72 U	<2.69 U	<2.76 U	<3.05 U	<2.54 U	<3.64 U	<4.18 U	<2.62 U	<2.65 U	<2.83 U
Vanadium	7440-62-2	NS	NS	NS	NS	mg/kg	15.4	18.4	10.3	26.1	27.5	16	17	51	42.8	32.4	33.3	16.4
Zinc	7440-66-6	**109**	2480	10000	10000	mg/kg	47.4	**118**	22	**561**	**224**	33.9	39.5	72.4	83.3	79.2 J	79.8	25.2
General Chemistry																		
Solids, Percent	SOLID	NS	NS	NS	NS	Percent	89.1	90.6	92	92.9	90.5	82	98.3	68.6	59.8	95.5	94.4	88.4
Perfluorooctanoic acids																		
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	NS	NS	NS	mg/kg	<0.000244 U	<0.000265 U	<0.000261 U	<0.000236 U	<0.000256 U	<0.0003 U	<0.000203 U	<0.000361 UJ	<0.000406 U	<0.000234 U	<0.000239 U	<0.000249 U
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOSAA	2355-31-9	NS	NS	NS	NS	mg/kg	<0.000244 U	<0.000265 U	<0.000261 U	<0.000236 U	<0.000256 U	<0.0003 U	<0.000203 U	<0.000361 U	<0.000406 U	<0.000234 U	<0.000239 U	<0.000249 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	NS	mg/kg	<0.000244 U	<0.000265 U	<0.000261 U	<0.000236 U	<0.000256 U	<0.0003 U	<0.000203 U	<0.000361 U	<0.000406 U	<0.000234 U	<0.000239 U	<0.000249 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	NS	mg/kg	<0.000244 U	<0.000265 U	<0.000261 U	<0.000236 U	<0.000256 U	<0.0003 U	0.000749	<0.000361 U	<0.000406 U	<0.000234 U	<0.000239 U	<0.000249 U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	NS	mg/kg	<0.000244 U	<0.000265 U	<0.000261 U	<0.000236 U	<0.000256 U	<0.0003 U	<0.000203 U	<0.000361 U	<0.000406 U	<0.000234 U	<0.000239 U	<0.000249 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	NS	mg/kg	<0.000244 U	<0.000265 U	<0.000261 U	<0.000236 U	<0.000256 U	<0.0003 U	<0.000203 U	<0.000361 U	<0.000406 U	<0.000234 U	<0.000239 U	<0.000249 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	NS	mg/kg	<0.000244 U	<0.000265 U	<0.000261 U	<0.000236 U	<0.000256 U	<0.0003 U	<0.000203 U	<0.000361 U	<0.000406 U	<0.000234 U	<0.000239 U	<0.000249 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	NS	mg/kg	<0.000244 U	<0.000265 U	<0.000261 U	<0.000236 U	<0.000256 U	<0.0003 U	<0.000203 U	<0.000361 U	<0.000406 U	<0.000234 U	<0.000239 U	<0.000249 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	NS	mg/kg	<0.000244 U	<0.000265 U	<0.000261 U	<0.000236 U	<0.000256 U	<0.0003 U	<0.000203 U	<0.000361 U	<0.000406 U	<0.000234 U	<0.000239 U	<0.000249 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	NS	mg/kg	<0.000244 U	<0.000265 U	<0.000261 U	<0.000236 U	<0.000256 U	<0.0003 U	<0.000203 U	<0.000361 U	<0.000406 U	<0.000234 UJ	0.00107 J	<0.000249 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	NS	mg/kg	<0.000244 U	<0.000265 U	<0.000261 U	<0.000236 U	<0.000256 U	<0.0003 U	<0.000203 U	<0.000361 U	<0.000406 U	<0.000234 U	<0.000239 U	<0.000249 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	NS	mg/kg	<0.000244 U	<0.000265 U	<0.000261 U	<0.000236 U	<0.000256 U	<0.0003 U	<0.000203 U	<0.000361 U	<0.000406 U	<0.000234 U	<0.000239 U	<0.000249 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	NS	mg/kg	<0.000244 U	<0.000265 U	<0.000261 U	<0.000236 U	<0.000256 U	<0.0003 U	<0.000203 U	<0.000361 U	<0.000406 U	<0.000234 U	<0.000239 U	<0.000249 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.044	0.44	mg/kg	<0.000244 U	0.000266	0.000298	<0.000236 U	0.000354	<0.0003 U	<0.000203 U	<0.000361 U	<0.000406 U	0.000332 J	**0.00297 J**	0.000426
Perfluorooctanoic Acid (PFOA)	335-67-1	0.00066	0.0011	0.033	0.5	mg/kg	<0.000244 U	<0.000265 U	<0.000261 U	<0.000236 U	<0.000256 U	<0.0003 U	<0.000203 U	<0.000361 U	<0.000406 U	<0.000234 U	<0.000239 U	<0.000249 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	NS	mg/kg	<0.000244 U	<0.000265 U	<0.000261 U	<0.000236 U	<0.000256 U	<0.0003 U	<0.000203 U	<0.000361 U	<0.000406 U	<0.000234 U	<0.000239 U	<0.000249 U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	NS	mg/kg	<0.000244 U	<0.000265 U	<0.000261 U	<0.000236 U	<0.000256 U	<0.0003 U	<0.000203 U	<0.000361 U	<0.000406 U	<0.000234 U	<0.000239 U	<0.000249 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	NS	mg/kg	<0.000244 U	<0.000265 U	<0.000261 U	<0.000236 U	<0.000256 U	<0.0003 U	<0.000203 U	<0.000361 U	<0.000406 U	<0.000234 U	<0.000239 U	<0.000249 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	NS	mg/kg	<0.000244 U	<0.000265 U	<0.000261 U	<0.000236 U	<0.000256 U	<0.0003 U	<0.000203 U	<0.000361 U	<0.000406 U	<0.000234 U	<0.000239 U	<0.000249 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FTS	39108-34-4	NS	NS	NS	NS	mg/kg	<0.000244 U	<0.000265 U	<0.000261 U	<0.000236 U	<0.000256 U	<0.0003 U	<0.000203 U	<0.000361 U	<0.000406 U	<0.000234 U	<0.000239 U	<0.000249 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FTS	27619-97-2	NS	NS	NS	NS	mg/kg	<0.000244 U	<0.000265 U	<0.000261 U	<0.000236 U	<0.000256 U	<0.0003 U	<0.000203 U	<0.000361 U	<0.000406 U	<0.000234 U	<0.000239 U	<0.000249 U

Notes provided on Page 7.
Concentrations above UU SCOs are bolded, above PGW SCOs are shaded, above RURR SCOs are underlined, and/or above CU SCOs are red.

Table 3G
Remedial Investigation Report
Soil Sample Analytical Results - Block 1820 (K)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Notes:

CAS - Chemical Abstract Service
NS - No standard
mg/kg - milligram per kilogram
NA - Not analyzed
RL - Reporting limit
<RL - Not detected
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 Unrestricted Use (UU), Protection of Groundwater (PGW), Restricted Use Restricted-Residential (RURR), and Restricted Use Commercial (CU) Soil Cleanup Objectives (SCO).
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).

Qualifiers:

D - The concentration reported is a result of a diluted sample.
B - The analyte was found in the associated analysis batch blank.
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.

Exceedance Summary:

10 - Result exceeds Unrestricted Use SCOs
10 - Result exceeds Protection of Groundwater SCOs
10 - Result exceeds Restricted Use Restricted-Residential SCOs
10 - Result exceeds Restricted Use Commercial SCOs

Table 4A
Remedial Investigation Report
Soil Sample Analytical Results - Block 1826/1827 (E) TCLP

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	RCRA Characteristics of Hazardous Waste	Location	E-EP102	E-EP109	E-SB101	E-SB102	E-SB103	E-SB103	E-SB104	E-SB105	E-SB108
			Sample Name	E-EP102_5-7	E-EP109_6-8	E-SB101_0-2	E-SB102_0-2	E-SB103_0-2	E-SB103_6-8	E-SB104_0-2	E-SB105_6-8	E-SB108_7.5-8.5
			Sample Date	09/10/2021	09/13/2021	09/09/2021	09/10/2021	09/10/2021	09/10/2021	09/09/2021	09/13/2021	09/08/2021
			Sample Depth	5-7	6-8	0-2	0-2	0-2	6-8	0-2	6-8	7.5-8.5
			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result
Metals												
Arsenic	7440-38-2	5	mg/l	NA	<0.375 U	<0.375 U	<0.375 U	<0.375 U	NA	<0.375 U	<0.375 U	<0.375 U
Barium	7440-39-3	100	mg/l	NA	1.63	0.777	2.06	1.34	NA	10.4	1.73	0.889
Cadmium	7440-43-9	1	mg/l	NA	<0.075 U	<0.075 U	0.663	<0.075 U	NA	<0.075 U	<0.075 U	<0.075 U
Chromium, Total	7440-47-3	**5**	mg/l	NA	<0.125 U	<0.125 U	<0.125 U	<0.125 U	NA	**6.01**	<0.125 U	<0.125 U
Lead	7439-92-1	5	mg/l	2.2 J	2.78	0.196	4.01	0.823	1.23 J	2.21	2.94	1.14
Mercury	7439-97-6	0.2	mg/l	NA	<0.0002 U	<0.0002 U	0.000227	<0.0002 U	NA	<0.0002 U	<0.0002 U	<0.0002 U
Selenium	7782-49-2	1	mg/l	NA	<0.625 U	<0.625 UJ	<0.625 UJ	<0.625 UJ	NA	<0.625 UJ	<0.625 U	<0.625 U
Silver	7440-22-4	5	mg/l	NA	<0.125 U	<0.125 UJ	<0.125 UJ	<0.125 UJ	NA	<0.125 UJ	<0.125 U	<0.125 U

Notes:
TCLP - Toxicity Characteristic Leaching Procedure
CAS - Chemical Abstract Service
NS - No standard
mg/l - milligram per liter
NA - Not analyzed
RL - Reporting limit
<RL - Not detected
Soil sample analytical results are compared to the 6 New York Codes, Rules and Regulations (NYCRR) Part 371.3 and 40 CFR 261 Subpart C and Table 1 of 40 CFR 261.24 - Environmental Protection Agency (EPA) Resource Conservation and Recovery Act (RCRA) Characteristics of Hazardous Waste.

Qualifiers:
J - The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
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.
UJ - The analyte was not detected at a level greater than or equal to the RL; however, the reported RL is approximate and may be inaccurate or

Exceedance Summary:
10 - Result exceeds the RCRA Maximum Concentration of Contaminants for the Toxicity Characteristic

Table 4B
Remedial Investigation Report
Soil Sample Analytical Results - Block 1825 (F) TCLP

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	RCRA Characteristics of Hazardous Waste	Location	F-EP101	F-EP101	F-EP103	F-EP105	F-EP106	F-SB101	F-SB102	F-SB105	F-SB106	F-SB107	F-SB109	F-SB110	F-SB111	F-SB112	F-SB118	F-SB119	F-SB119	F-SB122
			Sample Name	F-EP101_6-8	DUP03_091621	F-EP103_7-9	F-EP105_6-8	F-EP106_4-6	F-SB101_0-2	F-SB102_0-2	F-SB105_0-2	F-SB106_6-8	F-SB107_6.8	F-SB109_0-2	F-SB110_0-2	F-SB111_5-7	F-SB112_9-11	F-SB118_6-8	F-SB119_0-2	SODUP12_100421	F-SB122_0-2
			Sample Date	09/16/2021	09/16/2021	09/20/2021	09/16/2021	09/17/2021	09/16/2021	09/16/2021	09/16/2021	09/17/2021	09/22/2021	09/17/2021	09/09/2021	09/17/2021	09/21/2021	09/17/2021	10/04/2021	10/04/2021	09/20/2021
			Sample Depth	6-8	6-8	7-9	6-8	4-6	0-2	0-2	0-2	6-8	6.8-6.8	0-2	0-2	5-7	9-11	6-8	0-2	0-2	0-2
			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Metals																					
Arsenic	7440-38-2	5	mg/l	<0.375 U	<0.375 U	<0.375 U	<0.375 U	<0.375 U	<0.375 U	<0.375 U	<0.375 U	<0.375 U	<0.375 U	<0.375 U	<0.375 U	<0.375 U	<0.375 U	<0.375 U	<0.375 U	<0.375 U	<0.375 U
Barium	7440-39-3	100	mg/l	1.2	<0.625 U	0.987	<0.625 U	1.75	0.979	1.1	1.42	1.98	1.52	0.83	0.879	2.84	<0.625 U	2.42	<0.625 U	1.06	1.74
Cadmium	7440-43-9	1	mg/l	<0.075 U	<0.075 U	<0.075 U	0.107	<0.075 U	<0.075 U	<0.075 U	<0.075 U	<0.075 U	<0.075 U	<0.075 U	<0.075 U	<0.075 U	<0.075 U	<0.075 U	<0.075 U	<0.075 U	0.422
Chromium, Total	7440-47-3	5	mg/l	<0.125 U	<0.125 U	<0.125 U	<0.125 U	<0.125 U	<0.125 U	<0.125 U	<0.125 U	<0.125 U	<0.125 U	<0.125 U	<0.125 U	<0.125 U	<0.125 U	<0.125 U	<0.125 U	<0.125 U	<0.125 U
Lead	7439-92-1	**5**	mg/l	**24**	**9.9**	1.85	**10.3**	2.47	**23.3**	2.01	1.18	1.75	0.829	0.484	<0.125 U	3.49	0.305	**57.2**	0.395 J	0.752 J	**20.7**
Mercury	7439-97-6	0.2	mg/l	<0.0002 U	<0.0002 U	0.000273	<0.0002 U	<0.0002 U	0.00025	<0.0002 U	<0.0002 U	0.000321	0.000374	<0.0002 U	<0.0002 U	0.000305	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	0.000231
Selenium	7782-49-2	1	mg/l	<0.625 U	<0.625 UJ	<0.625 U	<0.625 UJ	<0.625 UJ	<0.625 U	<0.625 U	<0.625 U	<0.625 UJ	<0.625 U	<0.625 UJ	<0.625 UJ	<0.625 UJ	<0.625 UJ	<0.625 UJ	<0.625 UJ	<0.625 UJ	<0.625 U
Silver	7440-22-4	5	mg/l	<0.125 U	<0.125 U	<0.125 UJ	<0.125 U	<0.125 UJ	<0.125 UJ	<0.125 UJ	<0.125 UJ	<0.125 UJ	<0.125 UJ	<0.125 U	<0.125 UJ	<0.125 UJ	<0.125 U	<0.125 UJ	<0.125 U	<0.125 U	<0.125 UJ

Notes:
TCLP - Toxicity Characteristic Leaching Procedure
CAS - Chemical Abstract Service
NS - No standard
mg/l - milligram per liter
NA - Not analyzed
RL - Reporting limit
<RL - Not detected
Soil sample analytical results are compared to the 6 New York Codes, Rules and Regulations (NYCRR) Part 371.3 and 40 CFR 261 Subpart C and Table 1 of 40 CFR 261.24 - Environmental Protection Agency (EPA) Resource Conservation and Recovery Act (RCRA) Characteristics of

Qualifiers:
J - The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
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.
UJ - The analyte was not detected at a level greater than or equal to the RL; however, the reported RL is approximate and may be inaccurate or

Exceedance Summary:
10 - Result exceeds the RCRA Maximum Concentration of Contaminants for the Toxicity Characteristic

Table 4C
Remedial Investigation Report
Soil Sample Analytical Results - Block 1824 (G) TCLP

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	RCRA Characteristics of Hazardous Waste	Location	G-EP101	G-EP103	G-EP103	G-SB102	G-SB105	G-SB107	G-SB107	G-SB117
			Sample Name	G-EP101_5.5-7.5	G-EP103_0-2	DUP06_092321	G-SB102_6-8	G-SB105_6-8	G-SB107_0-2	G-SB107_7-9	G-SB117_0-2
			Sample Date	09/22/2021	09/23/2021	09/23/2021	09/23/2021	09/21/2021	09/21/2021	09/21/2021	09/30/2021
			Sample Depth	5.5-7.5	0-2	0-2	6-8	6-8	0-2	7-9	0-2
			Unit	Result	Result	Result	Result	Result	Result	Result	Result
Metals											
Arsenic	7440-38-2	5	mg/l	<0.375 U	<0.375 U	<0.375 U	<0.375 U	<0.375 U	<0.375 U	<0.375 U	<0.375 U
Barium	7440-39-3	100	mg/l	1.91	0.797	0.823	2.07	2.3	1.17	1.61	1.2
Cadmium	7440-43-9	1	mg/l	<0.075 U	<0.075 U	<0.075 U	<0.075 U	<0.075 U	<0.075 U	<0.075 U	<0.075 U
Chromium, Total	7440-47-3	5	mg/l	<0.125 U	<0.125 U	<0.125 U	<0.125 U	<0.125 U	<0.125 U	<0.125 U	<0.125 U
Lead	7439-92-1	**5**	mg/l	4.3	1.21	1.7	1.4	**13.5**	2.9	2.35	1.55
Mercury	7439-97-6	0.2	mg/l	0.000237	0.00126 J	<0.0002 UJ	<0.0002 U	0.000394	0.000456	0.000243	<0.0002 U
Selenium	7782-49-2	1	mg/l	<0.625 U	<0.625 UJ	<0.625 UJ	<0.625 UJ	<0.625 U	<0.625 U	<0.625 U	<0.625 UJ
Silver	7440-22-4	5	mg/l	<0.125 UJ	<0.125 U	<0.125 U	<0.125 U	<0.125 UJ	<0.125 UJ	<0.125 UJ	<0.125 U

Notes:
TCLP - Toxicity Characteristic Leaching Procedure
CAS - Chemical Abstract Service
NS - No standard
mg/l - milligram per liter
NA - Not analyzed
RL - Reporting limit
<RL - Not detected
Soil sample analytical results are compared to the 6 New York Codes, Rules and Regulations (NYCRR) Part 371.3 and 40 CFR 261 Subpart C and Table 1 of 40 CFR 261.24 - Environmental Protection Agency (EPA) Resource Conservation and Recovery Act (RCRA) Characteristics of Hazardous Waste.

Qualifiers:
J - The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
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.
UJ - The analyte was not detected at a level greater than or equal to the RL; however, the reported RL is approximate and may be inaccurate or

Exceedance Summary:
10 - Result exceeds the RCRA Maximum Concentration of Contaminants for the Toxicity Characteristic

Table 4D
Remedial Investigation Report
Soil Sample Analytical Results - Block 1823 (H) TCLP

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	RCRA Characteristics of Hazardous Waste	Location	H-EP101	H-EP102	H-SB104	H-SB105	H-SB107	H-SB107	H-SB115
			Sample Name	H-EP101_0-2	H-EP102_6.5-8.5	H-SB104_7-9	H-SB105_6-8	H-SB107_0-2	H-SB107_6-8	H-SB115_6-8
			Sample Date	10/07/2021	10/06/2021	10/05/2021	10/05/2021	10/05/2021	10/05/2021	10/05/2021
			Sample Depth	0-2	6.5-8.5	7-9	6-8	0-2	6-8	6-8
			Unit	Result	Result	Result	Result	Result	Result	Result
Metals										
Arsenic	7440-38-2	5	mg/l	<0.375 U	<0.375 U	<0.375 U	<0.375 U	<0.375 U	<0.375 U	<0.375 U
Barium	7440-39-3	100	mg/l	0.963	0.903	1.97	0.986	<0.625 U	<0.625 U	0.906
Cadmium	7440-43-9	1	mg/l	<0.075 U	<0.075 U	<0.075 U	<0.075 U	<0.075 U	<0.075 U	<0.075 U
Chromium, Total	7440-47-3	5	mg/l	<0.125 U	<0.125 U	<0.125 U	<0.125 U	<0.125 U	<0.125 U	<0.125 U
Lead	7439-92-1	5	mg/l	0.404	1.23	4.18	3.47	<0.125 U	<0.125 U	4.53
Mercury	7439-97-6	0.2	mg/l	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U
Selenium	7782-49-2	1	mg/l	<0.625 UJ	<0.625 UJ	<0.625 UJ	<0.625 UJ	<0.625 UJ	<0.625 UJ	<0.625 UJ
Silver	7440-22-4	5	mg/l	<0.125 U	<0.125 U	<0.125 U	<0.125 U	<0.125 U	<0.125 U	<0.125 U

Notes:
TCLP - Toxicity Characteristic Leaching Procedure
CAS - Chemical Abstract Service
NS - No standard
mg/l - milligram per liter
NA - Not analyzed
RL - Reporting limit
<RL - Not detected
Soil sample analytical results are compared to the 6 New York Codes, Rules and Regulations (NYCRR) Part 371.3 and 40 CFR 261 Subpart C and Table 1 of 40 CFR 261.24 - Environmental Protection Agency (EPA) Resource Conservation and Recovery Act (RCRA) Characteristics of Hazardous Waste.

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.
UJ - The analyte was not detected at a level greater than or equal to the RL; however, the reported RL is approximate and may be inaccurate or imprecise.

Exceedance Summary:
10 - Result exceeds the RCRA Maximum Concentration of Contaminants for the Toxicity Characteristic

Table 4E
Remedial Investigation Report
Soil Sample Analytical Results - Block 1822 (I) TCLP

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	RCRA Characteristics of Hazardous Waste	Location	I-EP101
			Sample Name	I-EP101_7-9
			Sample Date	09/29/2021
			Sample Depth	7-9
			Unit	Result
Metals				
Arsenic	7440-38-2	5	mg/l	<0.375 U
Barium	7440-39-3	100	mg/l	0.71
Cadmium	7440-43-9	1	mg/l	<0.075 U
Chromium, Total	7440-47-3	5	mg/l	<0.125 U
Lead	7439-92-1	5	mg/l	1.13
Mercury	7439-97-6	0.2	mg/l	<0.0002 U
Selenium	7782-49-2	1	mg/l	<0.625 UJ
Silver	7440-22-4	5	mg/l	<0.125 U

Notes:
TCLP - Toxicity Characteristic Leaching Procedure
CAS - Chemical Abstract Service
NS - No standard
mg/l - milligram per liter
NA - Not analyzed
RL - Reporting limit
<RL - Not detected

Soil sample analytical results are compared to the 6 New York Codes, Rules and Regulations (NYCRR) Part 371.3 and 40 CFR 261 Subpart C and Table 1 of 40 CFR 261.24 - Environmental Protection Agency (EPA) Resource Conservation and Recovery Act (RCRA) Characteristics of Hazardous Waste.

The criteria comparison for total chromium is provided for reference. The promulgated SCO shown is for hexavalent chromium.

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.
UJ - The analyte was not detected at a level greater than or equal to the RL; however, the reported RL is approximate and may be inaccurate or imprecise.

Exceedance Summary:
10 - Result exceeds the RCRA Maximum Concentration of Contaminants for the Toxicity Characteristic

Table 4F
Remedial Investigation Report
Soil Sample Analytical Results - Block 1833 (J) TCLP

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	RCRA Characteristics of Hazardous Waste	Location	J-EP101	J-EP113	J-SB101	J-SB102
			Sample Name	J-EP101_10-11	J-EP113_10-12	J-SB101_0-2	J-SB102_0-2
			Sample Date	09/03/2021	10/08/2021	09/07/2021	09/07/2021
			Sample Depth	10-11	10-12	0-2	0-2
			Unit	Result	Result	Result	Result
Metals							
Arsenic	7440-38-2	5	mg/l	<0.375 U	<0.375 U	<0.375 U	<0.375 U
Barium	7440-39-3	100	mg/l	2.02	1.65	0.889	<0.625 U
Cadmium	7440-43-9	1	mg/l	<0.075 U	<0.075 U	<0.075 U	<0.075 U
Chromium, Total	7440-47-3	5	mg/l	<0.125 U	<0.125 U	<0.125 U	<0.125 U
Lead	7439-92-1	**5**	mg/l	3.32	**5.42**	0.681 B	0.338 J
Mercury	7439-97-6	0.2	mg/l	0.000207	<0.0002 U	0.000216	0.000203
Selenium	7782-49-2	1	mg/l	<0.625 U	<0.625 UJ	<0.625 U	<0.625 U
Silver	7440-22-4	5	mg/l	<0.125 UJ	<0.125 U	<0.125 UJ	<0.125 UJ

Notes:
TCLP - Toxicity Characteristic Leaching Procedure
CAS - Chemical Abstract Service
NS - No standard
mg/l - milligram per liter
NA - Not analyzed
RL - Reporting limit
<RL - Not detected
Soil sample analytical results are compared to the 6 New York Codes, Rules and Regulations (NYCRR) Part 371.3 and 40 CFR 261 Subpart C and Table 1 of 40 CFR 261.24 - Environmental Protection Agency (EPA) Resource Conservation and Recovery Act (RCRA) Characteristics of Hazardous Waste.

Qualifiers:
B - The analyte was found in the associated analysis batch blank.
J - The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
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.
UJ - The analyte was not detected at a level greater than or equal to the RL; however, the reported RL is approximate and may be inaccurate or imprecise.

Exceedance Summary:
10 - Result exceeds the RCRA Maximum Concentration of Contaminants for the Toxicity Characteristic

Table 5A
Remedial Investigation Report
Groundwater Sample Analytical Results - Block 1826/1827 (E)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC SGVs	NYSDEC Guidance Values	Location	E-MW101	E-MW102	E-MW103	E-MW104	E-MW115	E-MW115
				Sample Name	E-MW101_093021	E-MW102_092921	E-MW103_092921	E-MW104_092921	E-MW115_092921	GWDUP01_092921
				Sample Date	9/30/2021	9/29/2021	9/29/2021	9/29/2021	9/29/2021	9/29/2021
				Unit	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds										
1,1,1,2-Tetrachloroethane	630-20-6	5	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
1,1,1-Trichloroethane	71-55-6	5	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
1,1,2,2-Tetrachloroethane	79-34-5	5	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	5	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
1,1,2-Trichloroethane	79-00-5	1	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
1,1-Dichloroethane	75-34-3	5	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
1,1-Dichloroethene	75-35-4	5	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
1,2,3-Trichlorobenzene	87-61-6	5	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.5 U	<0.2 U
1,2,3-Trichloropropane	96-18-4	0.04	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
1,2,4-Trichlorobenzene	120-82-1	5	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.5 U	<0.2 U
1,2,4-Trimethylbenzene	95-63-6	5	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
1,2-Dibromo-3-Chloropropane	96-12-8	0.04	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.0006	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
1,2-Dichlorobenzene	95-50-1	3	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
1,2-Dichloroethane	107-06-2	0.6	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
1,2-Dichloropropane	78-87-5	1	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	5	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
1,3-Dichlorobenzene	541-73-1	3	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
1,4-Dichlorobenzene	106-46-7	3	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
1,4-Dioxane (P-Dioxane)	123-91-1	NS	1	ug/l	<40 U	<40 UJ	NA	<40 UJ	<40 UJ	<40 UJ
2-Hexanone (MBK)	591-78-6	50	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
Acetone	67-64-1	50	NS	ug/l	<2 U	1 J	NA	3.12	2.1	2.08
Acrolein	107-02-8	5	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
Acrylonitrile	107-13-1	5	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
Benzene	71-43-2	1	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
Bromochloromethane	74-97-5	5	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
Bromodichloromethane	75-27-4	50	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
Bromoform	75-25-2	50	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
Bromomethane	74-83-9	5	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
Carbon Disulfide	75-15-0	60	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	0.64	0.2 J
Carbon Tetrachloride	56-23-5	5	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
Chlorobenzene	108-90-7	5	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
Chloroethane	75-00-3	5	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
Chloroform	67-66-3	7	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
Chloromethane	74-87-3	5	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
Cis-1,2-Dichloroethene	156-59-2	5	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
Cis-1,3-Dichloropropene	10061-01-5	0.4	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
Cyclohexane	110-82-7	NS	NS	ug/l	0.63	0.75	NA	0.87	<0.2 U	<0.2 U
Dibromochloromethane	124-48-1	50	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
Dibromomethane	74-95-3	5	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
Dichlorodifluoromethane	75-71-8	5	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
Ethylbenzene	100-41-4	5	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
Hexachlorobutadiene	87-68-3	0.5	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.5 U	<0.2 U
Isopropylbenzene (Cumene)	98-82-8	5	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
M,P-Xylene	179601-23-1	5	NS	ug/l	<0.5 U	<0.5 UJ	NA	<0.5 UJ	<0.5 UJ	<0.5 UJ
Methyl Acetate	79-20-9	NS	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	50	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
Methylcyclohexane	108-87-2	NS	NS	ug/l	0.5	<0.2 U	NA	0.46 J	<0.2 U	<0.2 U
Methylene Chloride	75-09-2	5	NS	ug/l	<1 U	<1 U	NA	<1 U	1.16 J	<1 U
n-Butylbenzene	104-51-8	5	NS	ug/l	<0.2 UJ	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
n-Propylbenzene	103-65-1	5	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	5	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
Sec-Butylbenzene	135-98-8	5	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
Styrene	100-42-5	5	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
T-Butylbenzene	98-06-6	5	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
Tert-Butyl Alcohol	75-65-0	NS	NS	ug/l	<0.5 U	2.76 J	NA	<0.5 UJ	<0.5 UJ	<0.5 UJ
Tert-Butyl Methyl Ether	1634-04-4	**10**	NS	ug/l	7.9	**11.6**	NA	4.98	<0.2 U	<0.2 U
Tetrachloroethene (PCE)	127-18-4	5	NS	ug/l	<0.2 UJ	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
Toluene	108-88-3	5	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
Total Xylenes	1330-20-7	5	NS	ug/l	<0.6 U	<0.6 U	NA	<0.6 U	<0.6 U	<0.6 U
Trans-1,2-Dichloroethene	156-60-5	5	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
Trans-1,3-Dichloropropene	10061-02-6	0.4	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
Trichloroethene (TCE)	79-01-6	5	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
Trichlorofluoromethane	75-69-4	5	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U
Vinyl Chloride	75-01-4	2	NS	ug/l	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U

Notes provided on Page 5.
Concentrations above NYSDEC SGVs are bolded.
Concentrations above NYSDEC Guidance Values are shaded.

Table 5A
Remedial Investigation Report
Groundwater Sample Analytical Results - Block 1826/1827 (E)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC SGVs	NYSDEC Guidance Values	Location	E-MW101	E-MW102	E-MW103	E-MW104	E-MW115	E-MW115
				Sample Name	E-MW101_093021	E-MW102_092921	E-MW103_092921	E-MW104_092921	E-MW115_092921	GWDUP01_092921
				Sample Date	9/30/2021	9/29/2021	9/29/2021	9/29/2021	9/29/2021	9/29/2021
				Unit	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds										
1,2,4,5-Tetrachlorobenzene	95-94-3	5	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
1,2-Diphenylhydrazine	122-66-7	0	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
1,4-Dioxane (P-Dioxane)	123-91-1	NS	1	ug/l	0.608	0.624	NA	1.33	<0.3 U	<0.3 U
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
2,4-Dichlorophenol	120-83-2	1	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
2,4-Dimethylphenol	105-67-9	1	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
2,4-Dinitrophenol	51-28-5	1	NS	ug/l	<2.7 UJ	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
2,4-Dinitrotoluene	121-14-2	5	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
2,6-Dinitrotoluene	606-20-2	5	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
2-Chloronaphthalene	91-58-7	10	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
2-Chlorophenol	95-57-8	NS	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
2-Methylnaphthalene	91-57-6	NS	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
2-Methylphenol (o-Cresol)	95-48-7	NS	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
2-Nitroaniline	88-74-4	5	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
2-Nitrophenol	88-75-5	NS	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	NS	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
3,3'-Dichlorobenzidine	91-94-1	5	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
3-Nitroaniline	99-09-2	5	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
4-Chloroaniline	106-47-8	5	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
4-Nitroaniline	100-01-6	5	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
4-Nitrophenol	100-02-7	NS	NS	ug/l	<5.41 U	<6.06 U	NA	<5 U	<5.41 U	<5 U
Acenaphthene	83-32-9	20	NS	ug/l	0.843	<0.0606 U	NA	0.61	0.0973	0.1
Acenaphthylene	208-96-8	NS	NS	ug/l	<0.0541 U	<0.0606 U	NA	0.06	<0.0541 U	<0.05 U
Acetophenone	98-86-2	NS	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	5	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
Anthracene	120-12-7	50	NS	ug/l	0.0541	<0.0606 U	NA	0.54	0.0541	0.05
Atrazine	1912-24-9	7.5	NS	ug/l	<0.541 U	<0.606 U	NA	<0.5 U	<0.541 U	<0.5 U
Benzaldehyde	100-52-7	NS	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
Benzidine	92-87-5	5	NS	ug/l	<5.41 U	<6.06 U	NA	<5 U	<5.41 U	<5 U
Benzo(a)anthracene	56-55-3	0.002	NS	ug/l	<0.0541 U	<0.0606 U	NA	<0.05 U	<0.0541 U	<0.05 U
Benzo(a)pyrene	50-32-8	0	NS	ug/l	<0.0541 U	<0.0606 U	NA	<0.05 U	<0.0541 U	<0.05 U
Benzo(b)fluoranthene	205-99-2	0.002	NS	ug/l	<0.0541 U	<0.0606 U	NA	<0.05 U	<0.0541 U	<0.05 U
Benzo(g,h,i)Perylene	191-24-2	NS	NS	ug/l	<0.0541 U	<0.0606 U	NA	<0.05 U	<0.0541 U	<0.05 U
Benzo(k)fluoranthene	207-08-9	0.002	NS	ug/l	<0.0541 U	<0.0606 U	NA	<0.05 U	<0.0541 U	<0.05 U
Benzoic Acid	65-85-0	NS	NS	ug/l	<2.7 UJ	<3.03 UJ	NA	<2.5 UJ	<2.7 UJ	<2.5 UJ
Benzyl Alcohol	100-51-6	NS	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
Benzyl Butyl Phthalate	85-68-7	50	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
Biphenyl (Diphenyl)	92-52-4	5	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
Bis(2-chloroethoxy) methane	111-91-1	5	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	1	NS	ug/l	<1.08 U	<1.21 U	NA	<1 U	<1.08 U	<1 U
Bis(2-chloroisopropyl) ether	108-60-1	5	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
Bis(2-ethylhexyl) phthalate	117-81-7	5	NS	ug/l	<0.541 U	<0.606 U	NA	<0.5 U	2.99	2.73
Caprolactam	105-60-2	NS	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
Carbazole	86-74-8	NS	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
Chrysene	218-01-9	0.002	NS	ug/l	<0.0541 U	<0.0606 U	NA	<0.05 U	<0.0541 U	<0.05 U
Dibenz(a,h)anthracene	53-70-3	NS	NS	ug/l	<0.0541 U	<0.0606 U	NA	<0.05 U	<0.0541 U	<0.05 U
Dibenzofuran	132-64-9	NS	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
Dibutyl phthalate	84-74-2	50	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
Diethyl phthalate	84-66-2	50	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
Dimethyl phthalate	131-11-3	50	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
Dioctyl phthalate	117-84-0	50	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
Diphenylamine	122-39-4	5	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
Fluoranthene	206-44-0	50	NS	ug/l	<0.0541 U	<0.0606 U	NA	0.71	<0.0541 U	<0.05 U
Fluorene	86-73-7	50	NS	ug/l	0.184	<0.0606 U	NA	1.57	<0.0541 U	0.05
Hexachlorobenzene	118-74-1	0.04	NS	ug/l	<0.0216 U	<0.0242 U	NA	<0.02 U	<0.0216 U	<0.02 U
Hexachlorobutadiene	87-68-3	0.5	NS	ug/l	<0.541 U	<0.606 U	NA	<0.5 U	<0.541 U	<0.5 U
Hexachlorocyclopentadiene	77-47-4	5	NS	ug/l	<5.41 U	<6.06 U	NA	<5 U	<5.41 U	<5 U
Hexachloroethane	67-72-1	5	NS	ug/l	<0.541 U	<0.606 U	NA	<0.5 U	<0.541 U	<0.5 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	NS	ug/l	<0.0541 U	<0.0606 U	NA	<0.05 U	<0.0541 U	<0.05 U
Isophorone	78-59-1	50	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
Naphthalene	91-20-3	10	NS	ug/l	<0.0541 U	<0.0606 U	NA	0.3	<0.0541 U	<0.05 U
Nitrobenzene	98-95-3	0.4	NS	ug/l	<0.27 U	<0.303 U	NA	<0.25 U	<0.27 U	<0.25 U
n-Nitrosodimethylamine	62-75-9	NS	NS	ug/l	<0.541 UJ	<0.606 UJ	NA	<0.5 UJ	<0.541 UJ	<0.5 UJ
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
n-Nitrosodiphenylamine	86-30-6	50	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
Pentachlorophenol	87-86-5	1	NS	ug/l	<0.27 U	<0.303 U	NA	<0.25 U	<0.27 U	<0.25 U
Phenanthrene	85-01-8	50	NS	ug/l	0.216	<0.0606 U	NA	2.73	<0.0541 U	<0.05 U
Phenol	108-95-2	1	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U
Pyrene	129-00-0	50	NS	ug/l	<0.0541 U	0.0606	NA	0.36	<0.0541 U	0.05
Pyridine	110-86-1	50	NS	ug/l	<2.7 U	<3.03 U	NA	<2.5 U	<2.7 U	<2.5 U

Notes provided on Page 5.
Concentrations above NYSDEC SGVs are bolded.
Concentrations above NYSDEC Guidance Values are shaded.

Table 5A
Remedial Investigation Report
Groundwater Sample Analytical Results - Block 1826/1827 (E)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC SGVs	NYSDEC Guidance Values	Location	E-MW101	E-MW102	E-MW103	E-MW104	E-MW115	E-MW115
				Sample Name	E-MW101_093021	E-MW102_092921	E-MW103_092921	E-MW104_092921	E-MW115_092921	GWDUP01_092921
				Sample Date	9/30/2021	9/29/2021	9/29/2021	9/29/2021	9/29/2021	9/29/2021
				Unit	Result	Result	Result	Result	Result	Result
Petroleum Hydrocarbons										
Hydraulic Oil	PHCHYD	NS	NS	ug/l	NA	NA	Hydraulic Oil	NA	NA	NA
Pesticides										
4,4'-DDD	72-54-8	0.3	NS	ug/l	<0.00421 U	<0.0041 U	NA	<0.0041 U	<0.0041 U	<0.0041 U
4,4'-DDE	72-55-9	0.2	NS	ug/l	<0.00421 U	<0.0041 U	NA	<0.0041 U	<0.0041 U	<0.0041 U
4,4'-DDT	50-29-3	0.2	NS	ug/l	<0.00421 U	<0.0041 U	NA	<0.0041 U	<0.0041 U	<0.0041 U
Aldrin	309-00-2	0	NS	ug/l	<0.00421 U	<0.0041 U	NA	<0.0041 U	<0.0041 U	<0.0041 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.01	NS	ug/l	<0.00421 U	<0.0041 U	NA	<0.0041 U	<0.0041 U	<0.0041 U
Alpha Chlordane	5103-71-9	NS	NS	ug/l	<0.00421 U	<0.0041 U	NA	<0.0041 U	<0.0041 U	<0.0041 U
Alpha Endosulfan	959-98-8	NS	NS	ug/l	<0.00421 U	<0.0041 U	NA	<0.0041 U	<0.0041 U	<0.0041 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.04	NS	ug/l	<0.00421 U	<0.0041 U	NA	<0.0041 U	<0.0041 U	<0.0041 U
Beta Endosulfan	33213-65-9	NS	NS	ug/l	<0.00421 U	<0.0041 U	NA	<0.0041 U	<0.0041 U	<0.0041 U
Chlordane (alpha and gamma)	57-74-9	0.05	NS	ug/l	<0.211 U	<0.205 U	NA	<0.205 U	<0.205 U	<0.205 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	NS	ug/l	<0.00421 U	<0.0041 U	NA	<0.0041 U	<0.0041 U	<0.0041 U
Dieldrin	60-57-1	0.004	NS	ug/l	<0.00211 U	<0.00205 U	NA	<0.00205 U	<0.00205 U	<0.00205 U
Endosulfan Sulfate	1031-07-8	NS	NS	ug/l	<0.00421 U	<0.0041 U	NA	<0.0041 U	<0.0041 U	<0.0041 U
Endrin	72-20-8	0	NS	ug/l	<0.00421 U	<0.0041 U	NA	<0.0041 U	<0.0041 U	<0.0041 U
Endrin Aldehyde	7421-93-4	5	NS	ug/l	<0.0105 U	<0.0103 U	NA	<0.0103 U	<0.0103 U	<0.0103 U
Endrin Ketone	53494-70-5	5	NS	ug/l	<0.0105 U	<0.0103 U	NA	<0.0103 U	<0.0103 U	<0.0103 U
Gamma Bhc (Lindane)	58-89-9	0.05	NS	ug/l	<0.00421 U	<0.0041 U	NA	<0.0041 U	<0.0041 U	<0.0041 U
Gamma-Chlordane	5566-34-7	NS	NS	ug/l	<0.0105 U	<0.0103 U	NA	<0.0103 U	<0.0103 U	<0.0103 U
Heptachlor	76-44-8	0.04	NS	ug/l	<0.00421 U	<0.0041 U	NA	<0.0041 U	<0.0041 U	<0.0041 U
Heptachlor Epoxide	1024-57-3	0.03	NS	ug/l	<0.00421 U	<0.0041 U	NA	<0.0041 U	<0.0041 U	<0.0041 U
Methoxychlor	72-43-5	35	NS	ug/l	<0.00421 U	<0.0041 U	NA	<0.0041 U	<0.0041 U	<0.0041 U
Toxaphene	8001-35-2	0.06	NS	ug/l	<0.105 U	<0.103 U	NA	<0.103 U	<0.103 U	<0.103 U
Polychlorinated Biphenyl										
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	ug/l	<0.0526 U	<0.0513 U	NA	<0.0513 U	<0.0513 U	<0.0513 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	ug/l	<0.0526 U	<0.0513 U	NA	<0.0513 U	<0.0513 U	<0.0513 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	ug/l	<0.0526 U	<0.0513 U	NA	<0.0513 U	<0.0513 U	<0.0513 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	ug/l	<0.0526 U	<0.0513 U	NA	<0.0513 U	<0.0513 U	<0.0513 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	ug/l	<0.0526 U	<0.0513 U	NA	<0.0513 U	<0.0513 U	<0.0513 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	ug/l	<0.0526 U	<0.0513 U	NA	<0.0513 U	<0.0513 U	<0.0513 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	ug/l	<0.0526 U	<0.0513 U	NA	<0.0513 U	<0.0513 U	<0.0513 U
Total PCBs	1336-36-3	0.09	NS	ug/l	<0.0526 U	<0.0513 U	NA	<0.0513 U	<0.0513 U	<0.0513 U
Metals - Dissolved										
Aluminum	7429-90-5	NS	NS	ug/l	<50 U	71.8	NA	120 J	<55.6 U	86.2
Antimony	7440-36-0	3	NS	ug/l	<1.11 U	<1.11 U	NA	<1.11 U	<1.11 U	<1.11 U
Arsenic	7440-38-2	25	NS	ug/l	2.87	2.56	NA	11.6	2	2
Barium	7440-39-3	1000	NS	ug/l	486	345	NA	233 J	51.8	56.1
Beryllium	7440-41-7	3	NS	ug/l	<0.333 U	<0.333 U	NA	<0.333 U	<0.333 U	<0.333 U
Cadmium	7440-43-9	5	NS	ug/l	<0.556 U	<0.556 U	NA	<0.556 U	<0.556 U	<0.556 U
Calcium	7440-70-2	NS	NS	ug/l	49,300	45,600	NA	38,300 J	53,600	59,600
Chromium, Total	7440-47-3	50	NS	ug/l	<5 U	<5.56 U	NA	<5.56 U	<5.56 U	<5.56 U
Cobalt	7440-48-4	NS	NS	ug/l	<4 U	<4.44 U	NA	<4.44 U	<4.44 U	<4.44 U
Copper	7440-50-8	200	NS	ug/l	<20 U	<22.2 U	NA	<22.2 U	<22.2 U	<22.2 U
Iron	7439-89-6	**300**	NS	ug/l	**2,180**	**603**	NA	**1,860 J**	<278 U	<278 U
Lead	7439-92-1	25	NS	ug/l	<5 U	9.45	NA	<5.56 U	<5.56 U	<5.56 U
Magnesium	7439-95-4	35000	NS	ug/l	16,700	5,320 B	NA	12,900 J	<343 U	753 J
Manganese	7439-96-5	300	NS	ug/l	201	189	NA	76.4 J	136	155
Mercury	7439-97-6	0.7	NS	ug/l	<0.2 U	0.2	NA	0.2	0.2	0.2
Nickel	7440-02-0	100	NS	ug/l	<10 U	<11.1 U	NA	<11.1 U	<11.1 U	<11.1 U
Potassium	7440-09-7	NS	NS	ug/l	16,200	4,570	NA	28,800	<55.6 UJ	714 J
Selenium	7782-49-2	10	NS	ug/l	<1.11 U	<1.11 U	NA	1.47	<1.11 U	<1.11 U
Silver	7440-22-4	50	NS	ug/l	<5 U	<5.56 UJ	NA	<5.56 UJ	<5.56 UJ	<5.56 UJ
Sodium	7440-23-5	**20000**	NS	ug/l	**121,000**	11,000	NA	**196,000**	<556 UJ	2,500 J
Thallium	7440-28-0	0.5	NS	ug/l	<1.11 U	<1.11 U	NA	<1.11 U	<1.11 U	<1.11 U
Vanadium	7440-62-2	NS	NS	ug/l	<10 U	<11.1 U	NA	<11.1 U	<11.1 U	<11.1 U
Zinc	7440-66-6	2000	NS	ug/l	<25 U	<27.8 U	NA	<27.8 U	<27.8 U	<27.8 U
Metals - Total										
Aluminum	7429-90-5	NS	NS	ug/l	<68.8 U	220	NA	210	110 J	180 J
Antimony	7440-36-0	3	NS	ug/l	<1.11 U	<1.11 U	NA	<1.11 U	<1.11 U	<1.11 U
Arsenic	7440-38-2	25	NS	ug/l	7.36	7	NA	10	2.04	2.21
Barium	7440-39-3	1000	NS	ug/l	707	481	NA	259	65.8	65.5
Beryllium	7440-41-7	3	NS	ug/l	<0.333 U	<0.333 U	NA	<0.333 U	<0.333 U	<0.333 U
Cadmium	7440-43-9	5	NS	ug/l	<0.556 U	<0.556 U	NA	<0.556 U	<0.556 U	<0.556 U
Calcium	7440-70-2	NS	NS	ug/l	55,800	49,800 B	NA	38,300 B	66,100 B	65,700 B
Chromium, Hexavalent	18540-29-9	50	NS	ug/l	<10 U	<10 U	NA	<10 U	<10 U	<10 U
Chromium, Total	7440-47-3	NS	NS	ug/l	<5.56 U	<5.56 U	NA	<5.56 U	<5.56 U	<5.56 U
Chromium, Trivalent	16065-83-1	NS	NS	ug/l	<10 U	NA	NA	NA	NA	NA
Cobalt	7440-48-4	NS	NS	ug/l	<4.44 U	<4.44 U	NA	<4.44 U	<4.44 U	<4.44 U
Copper	7440-50-8	200	NS	ug/l	<22.2 U	<22.2 U	NA	<22.2 U	<22.2 U	<22.2 U
Cyanide	57-12-5	200	NS	ug/l	<10 U	<10 U	NA	<10 U	<10 U	<10 U
Iron	7439-89-6	**300**	NS	ug/l	**13,700 J**	**11,800**	NA	**3,540**	**760**	**877**
Lead	7439-92-1	**25**	NS	ug/l	<5.56 U	**26.1**	NA	12.9	<5.56 U	<5.56 U
Magnesium	7439-95-4	35000	NS	ug/l	16,000	17,100	NA	12,900	5,200	5,170
Manganese	7439-96-5	300	NS	ug/l	229	222	NA	107	173	173
Mercury	7439-97-6	0.7	NS	ug/l	<0.2 U	0.2	NA	0.2 J	<0.2 U	0.2
Nickel	7440-02-0	100	NS	ug/l	<11.1 U	<11.1 U	NA	<11.1 U	<11.1 U	<11.1 U
Potassium	7440-09-7	NS	NS	ug/l	19,800 B	20,400	NA	28,700	13,400	13,300
Selenium	7782-49-2	10	NS	ug/l	<1.11 U	<1.11 U	NA	<1.11 U	<1.11 U	<1.11 U
Silver	7440-22-4	50	NS	ug/l	<5.56 UJ	<5.56 U	NA	<5.56 UJ	<5.56 U	<5.56 U
Sodium	7440-23-5	**20000**	NS	ug/l	**125,000**	**147,000**	NA	**198,000**	**37,600**	**37,800**
Thallium	7440-28-0	0.5	NS	ug/l	<1.11 U	<1.11 U	NA	<1.11 U	<1.11 U	<1.11 U
Vanadium	7440-62-2	NS	NS	ug/l	<11.1 U	<11.1 U	NA	<11.1 U	<11.1 U	<11.1 U
Zinc	7440-66-6	2000	NS	ug/l	<27.8 U	53.9	NA	<27.8 U	30.3	<27.8 U

Notes provided on Page 5.
Concentrations above NYSDEC SGVs are bolded.
Concentrations above NYSDEC Guidance Values are shaded.

Table 5A
Remedial Investigation Report
Groundwater Sample Analytical Results - Block 1826/1827 (E)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC SGVs	NYSDEC Guidance Values	Location	E-MW101	E-MW102	E-MW103	E-MW104	E-MW115	E-MW115
				Sample Name	E-MW101_093021	E-MW102_092921	E-MW103_092921	E-MW104_092921	E-MW115_092921	GWDUP01_092921
				Sample Date	9/30/2021	9/29/2021	9/29/2021	9/29/2021	9/29/2021	9/29/2021
				Unit	Result	Result	Result	Result	Result	Result
Perfluorooctanoic acids										
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	NS	ug/l	<0.00192 U	<0.002 U	NA	<0.00185 U	0.0018	<0.00179 U
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOSAA	2355-31-9	NS	NS	ug/l	<0.00192 U	<0.002 U	NA	<0.00185 U	<0.00179 U	<0.00179 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	ug/l	0.00199	0.00504	NA	0.00722	0.00411	0.0032
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	ug/l	0.00668	0.00805	NA	0.00843	0.00928	0.00807
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	ug/l	<0.00192 U	<0.002 U	NA	<0.00185 U	<0.00179 U	<0.00179 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	ug/l	<0.00192 U	<0.002 U	NA	<0.00185 U	0.00248	<0.00179 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	ug/l	<0.00192 U	<0.002 U	NA	<0.00185 U	<0.00179 U	<0.00179 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	ug/l	<0.00192 U	0.00205	NA	0.00604	<0.00179 U	<0.00179 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	ug/l	0.0098	0.0116	NA	0.00903	0.00764	0.00807
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	ug/l	0.00469	0.00637 J	NA	0.0254	0.00302	0.00309
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	ug/l	0.00863	0.0101	NA	0.0128	0.00874	0.00858
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	ug/l	0.00489	0.00538	NA	0.00769	0.00236	0.00238
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	ug/l	<0.00207 U	<0.002 UJ	NA	<0.00185 UJ	<0.00179 UJ	<0.00179 UJ
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	NS	0.01	ug/l	0.0787	0.0809	NA	0.173	0.0473	0.0456
Perfluorooctanoic Acid (PFOA)	335-67-1	NS	0.01	ug/l	0.0182	0.0167	NA	0.0272	0.0196	0.0171
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	ug/l	0.0226	0.0135	NA	0.0106	0.0107	0.00983
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	ug/l	<0.00192 U	<0.002 U	NA	<0.00185 U	<0.00179 U	<0.00179 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	ug/l	<0.00192 U	<0.002 U	NA	<0.00185 U	<0.00179 U	<0.00179 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	ug/l	<0.00192 U	<0.002 U	NA	<0.00185 U	<0.00179 U	<0.00179 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FTS)	39108-34-4	NS	NS	ug/l	<0.00192 U	<0.002 U	NA	<0.00185 U	<0.00179 U	<0.00179 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FTS)	27619-97-2	NS	NS	ug/l	<0.00481 U	<0.005 U	NA	0.00994	<0.00446 U	<0.00446 U

Notes provided on Page 5.
Concentrations above NYSDEC SGVs are bolded.
Concentrations above NYSDEC Guidance Values are shaded.

Table 5A
Remedial Investigation Report
Groundwater Sample Analytical Results - Block 1826/1827 (E)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Notes:
CAS - Chemical Abstract Service
NS - No standard
ug/l - microgram per liter
NA - Not analyzed
RL - Reporting limit
<RL - Not detected
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").

Groundwater sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Part 375 Remedial Programs Guidelines for Sampling and Analysis of Per- and Polyfluoroalkyl Substances (PFAS) (January 2021) and the 1,4-Dioxane value reflects the drinking water maximum contaminant level (MCL) adopted by New York State for public water systems (July 2020). Pursuant to Part 375-1.7(f)(2), the NYSDEC will treat the MCL as relevant and appropriate and will consider this value in remedy selection.

The criteria comparison for dissolved total chromium is provided for reference. The promulgated SGVs shown is for hexavalent chromium.

Qualifiers:
B - The analyte was found in the associated analysis batch blank.
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
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.

Exceedance Summary:
10 - Result exceeds NYSDEC SGVs
10 - Result exceeds NYSDEC Guidance Values

Table 5B
Remedial Investigation Report
Groundwater Sample Analytical Results - Block 1822 (F)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC SGVs	NYSDEC Guidance Values	Location	F-MW101	F-MW102	F-MW103	F-MW103	F-MW104	F-MW105	F-MW106	F-MW107	F-MW108	F-MW109	F-MW110	F-MW111
				Sample Name	F-MW101_093021	F-MW102_093021	F-MW103_101321	GWDUP03_101321	F-MW104_100121	F-MW105_100121	F-MW106_100421	F-MW107_093021	F-MW108_093021	F-MW109_100121	F-MW110_093021	F-MW111_100421
				Sample Date	9/30/2021	9/30/2021	10/13/2021	10/13/2021	10/1/2021	10/1/2021	10/4/2021	9/30/2021	9/30/2021	10/1/2021	9/30/2021	10/4/2021
				Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																
1,1,1,2-Tetrachloroethane	630-20-6	5	NS	ug/l	<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	<1 U	<0.2 U
1,1,1-Trichloroethane	71-55-6	5	NS	ug/l	<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	<1 U	<0.2 U
1,1,2,2-Tetrachloroethane	79-34-5	5	NS	ug/l	<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	<1 U	<0.2 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 UJ	<0.2 UJ	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<1 U	<0.2 U
1,1,2-Trichloroethane	79-00-5	1	NS	ug/l	<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	<1 U	<0.2 U
1,1-Dichloroethane	75-34-3	5	NS	ug/l	<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	<1 U	<0.2 U
1,1-Dichloroethene	75-35-4	5	NS	ug/l	<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	<1 U	<0.2 U
1,2,3-Trichlorobenzene	87-61-6	5	NS	ug/l	<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	<1 U	<0.2 U
1,2,3-Trichloropropane	96-18-4	0.04	NS	ug/l	<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	<1 U	<0.2 U
1,2,4-Trichlorobenzene	120-82-1	5	NS	ug/l	<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	<1 U	<0.2 U
1,2,4-Trimethylbenzene	95-63-6	5	NS	ug/l	<0.2 U	<0.2 U	1.24	1.27	<0.2 U	<0.2 U	0.21 J	<0.2 U	<0.2 U	<0.2 U	2.3 JD	<0.2 U
1,2-Dibromo-3-Chloropropane	96-12-8	0.04	NS	ug/l	<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	<1 U	<0.2 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.0006	NS	ug/l	<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	<1 U	<0.2 U
1,2-Dichlorobenzene	95-50-1	3	NS	ug/l	<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	<1 U	<0.2 U
1,2-Dichloroethane	107-06-2	0.6	NS	ug/l	<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	<1 U	<0.2 U
1,2-Dichloropropane	78-87-5	1	NS	ug/l	<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	<1 U	<0.2 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	5	NS	ug/l	<0.2 U	<0.2 U	0.56	0.56	<0.2 U	<0.2 U	0.75	<0.2 U	<0.2 U	<0.2 U	1.7 JD	<0.2 U
1,3-Dichlorobenzene	541-73-1	3	NS	ug/l	<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	<1 U	<0.2 U
1,4-Dichlorobenzene	106-46-7	3	NS	ug/l	<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	<1 U	<0.2 U
1,4-Dioxane (P-Dioxane)	123-91-1	NS	1	ug/l	<40 U	<40 U	<40 U	<40 U	<40 UJ	<40 UJ	<40 UJ	<40 U	<40 U	<40 UJ	<200 U	<40 UJ
2-Hexanone (MBK)	591-78-6	50	NS	ug/l	<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	<1 U	<0.2 U
Acetone	67-64-1	50	NS	ug/l	<1 U	<1 U	<2 U	<2.06 U	2.51	1.87 J	2.69	<1 U	<1 U	1.8 J	<5 U	1.84 J
Acrolein	107-02-8	5	NS	ug/l	<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	<1 U	<0.2 U
Acrylonitrile	107-13-1	5	NS	ug/l	<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	<1 U	<0.2 U
Benzene	71-43-2	**1**	NS	ug/l	<0.2 U	<0.2 U	**8.25**	**8.55**	<0.2 U	<0.2 U	**13.3**	<0.2 U	<0.2 U	<0.2 U	**13 D**	<0.2 U
Bromochloromethane	74-97-5	5	NS	ug/l	<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	<1 U	<0.2 U
Bromodichloromethane	75-27-4	50	NS	ug/l	<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	<1 U	<0.2 U
Bromoform	75-25-2	50	NS	ug/l	<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	<1 U	<0.2 U
Bromomethane	74-83-9	5	NS	ug/l	<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	<1 U	<0.2 U
Carbon Disulfide	75-15-0	60	NS	ug/l	<0.2 U	<0.2 U	0.54	0.32 J	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<1 U	<0.2 U
Carbon Tetrachloride	56-23-5	5	NS	ug/l	<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	<1 U	<0.2 U
Chlorobenzene	108-90-7	5	NS	ug/l	<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	<1 U	<0.2 U
Chloroethane	75-00-3	5	NS	ug/l	<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	<1 U	<0.2 U
Chloroform	67-66-3	7	NS	ug/l	<0.2 U	<0.2 U	0.2 J	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<1 U	<0.2 U
Chloromethane	74-87-3	5	NS	ug/l	0.51	<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	<1 U	<0.2 U
Cis-1,2-Dichloroethene	156-59-2	5	NS	ug/l	<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	<1 U	<0.2 U
Cis-1,3-Dichloropropene	10061-01-5	0.4	NS	ug/l	<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	<1 U	<0.2 U
Cyclohexane	110-82-7	NS	NS	ug/l	<0.2 U	<0.2 U	0.96	1.26	<0.2 U	<0.2 U	2.7	<0.2 U	<0.2 U	<0.2 U	14.5 D	0.24 J
Dibromochloromethane	124-48-1	50	NS	ug/l	<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	<1 U	<0.2 U
Dibromomethane	74-95-3	5	NS	ug/l	<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	<1 U	<0.2 U
Dichlorodifluoromethane	75-71-8	5	NS	ug/l	<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	<1 U	<0.2 U
Ethylbenzene	100-41-4	5	NS	ug/l	<0.2 U	<0.2 U	0.3 J	0.28 J	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<1 U	<0.2 U
Hexachlorobutadiene	87-68-3	0.5	NS	ug/l	<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	<1 U	<0.2 U
Isopropylbenzene (Cumene)	98-82-8	5	NS	ug/l	<0.2 U	<0.2 U	0.2 J	<0.2 U	<0.2 U	<0.2 U	2.48	<0.2 U	<0.2 U	<0.2 U	2.2 JD	<0.2 U
M,P-Xylene	179601-23-1	5	NS	ug/l	<0.5 U	<0.5 U	0.97 J	0.95 J	<0.5 U	<0.5 U	1.16	<0.5 U	<0.5 U	<0.5 U	<2.5 U	<0.5 U
Methyl Acetate	79-20-9	NS	NS	ug/l	<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	<1 U	<0.2 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	50	NS	ug/l	<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	<1 U	<0.2 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	ug/l	<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	<1 U	<0.2 U
Methylcyclohexane	108-87-2	NS	NS	ug/l	<0.2 U	<0.2 U	1.53	1.39	<0.2 U	<0.2 U	7.26	<0.2 U	<0.2 U	<0.2 U	5.7 D	0.37 J
Methylene Chloride	75-09-2	5	NS	ug/l	1.37 JB	1.76 JB	<1 U	<1 U	1.24 J	<1 U	<2 U	<1 U	<1 U	2.3	<6 U	<1 U
n-Butylbenzene	104-51-8	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	0.84	<0.2 U	<0.2 U	<0.2 U	<1 U	<0.2 U
n-Propylbenzene	103-65-1	5	NS	ug/l	<0.2 U	<0.2 U	0.31 J	0.3 J	<0.2 U	<0.2 U	2.97	<0.2 U	<0.2 U	<0.2 U	2.2 JD	<0.2 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	5	NS	ug/l	<0.2 U	<0.2 U	0.43 J	0.4 J	<0.2 U	<0.2 U	0.79	<0.2 U	<0.2 U	<0.2 U	<1 U	<0.2 U
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	ug/l	<0.2 U	<0.2 U	0.21 J	0.21 J	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<1 U	<0.2 U
Sec-Butylbenzene	135-98-8	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	0.68	<0.2 U	<0.2 U	<0.2 U	<1 U	<0.2 U
Styrene	100-42-5	5	NS	ug/l	<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	<1 U	<0.2 U
T-Butylbenzene	98-06-6	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	0.63	<0.2 U	<0.2 U	<0.2 U	<1 U	<0.2 U
Tert-Butyl Alcohol	75-65-0	NS	NS	ug/l	<0.5 U	<0.5 U	<0.5 UJ	<0.5 UJ	<0.5 UJ	<0.5 UJ	<0.5 UJ	<0.5 U	<0.5 U	1.78 J	<2.5 U	<0.5 UJ
Tert-Butyl Methyl Ether	1634-04-4	10	NS	ug/l	1.39	0.97	0.28 J	0.39 J	1.82	0.79	1.33	1.17	<0.2 U	4.81	<1 U	2.83
Tetrachloroethene (PCE)	127-18-4	5	NS	ug/l	<0.2 UJ	<0.2 UJ	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 UJ	<0.2 UJ	<0.2 U	<1 UJ	<0.2 U
Toluene	108-88-3	5	NS	ug/l	<0.2 U	<0.2 U	0.36 J	0.35 J	<0.2 U	<0.2 U	0.5	<0.2 U	<0.2 U	<0.2 U	<1 U	<0.2 U
Total Xylenes	1330-20-7	5	NS	ug/l	<0.6 U	<0.6 U	1.4 J	1.35 J	<0.6 U	<0.6 U	1.95	<0.6 U	<0.6 U	<0.6 U	<3 U	<0.6 U
Trans-1,2-Dichloroethene	156-60-5	5	NS	ug/l	<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	<1 U	<0.2 U
Trans-1,3-Dichloropropene	10061-02-6	0.4	NS	ug/l	<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	<1 U	<0.2 U
Trichloroethene (TCE)	79-01-6	5	NS	ug/l	<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	<1 U	<0.2 U
Trichlorofluoromethane	75-69-4	5	NS	ug/l	<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	<1 U	<0.2 U
Vinyl Chloride	75-01-4	2	NS	ug/l	<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	<1 U	<0.2 U

Notes provided on Page 5.
Concentrations above NYSDEC SGVs are bolded.
Concentrations above NYSDEC Guidance Values are shaded.

Table 5B
Remedial Investigation Report
Groundwater Sample Analytical Results - Block 1822 (F)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC SGVs	NYSDEC Guidance Values	Location	F-MW101	F-MW102	F-MW103	F-MW103	F-MW104	F-MW105	F-MW106	F-MW107	F-MW108	F-MW109	F-MW110	F-MW111
				Sample Name	F-MW101_093021	F-MW102_093021	F-MW103_101321	GWDUP03_101321	F-MW104_100121	F-MW105_100121	F-MW106_100421	F-MW107_093021	F-MW108_093021	F-MW109_100121	F-MW110_093021	F-MW111_100421
				Sample Date	9/30/2021	9/30/2021	10/13/2021	10/13/2021	10/1/2021	10/1/2021	10/4/2021	9/30/2021	9/30/2021	10/1/2021	9/30/2021	10/4/2021
				Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	5	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
1,2-Diphenylhydrazine	122-66-7	0	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
1,4-Dioxane (P-Dioxane)	123-91-1	NS	1	ug/l	<0.3 U	<0.3 U	<0.3 U	<0.3 U	<0.3 U	<0.3 U	2.32	<0.3 U	<0.3 U	0.448	0.848	<0.3 U
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	ug/l	<2.56 U	<2.7 U	<2.5 UJ	<2.63 UJ	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
2,4-Dichlorophenol	120-83-2	1	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
2,4-Dimethylphenol	105-67-9	1	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
2,4-Dinitrophenol	51-28-5	1	NS	ug/l	<2.56 UJ	<2.7 UJ	<2.5 UJ	<2.63 UJ	<2.63 U	<2.86 U	<2.56 U	<2.5 UJ	<2.5 UJ	<2.7 U	<2.56 UJ	<2.5 U
2,4-Dinitrotoluene	121-14-2	5	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
2,6-Dinitrotoluene	606-20-2	5	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
2-Chloronaphthalene	91-58-7	10	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
2-Chlorophenol	95-57-8	NS	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
2-Methylnaphthalene	91-57-6	NS	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
2-Methylphenol (o-Cresol)	95-48-7	NS	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
2-Nitroaniline	88-74-4	5	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
2-Nitrophenol	88-75-5	NS	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	NS	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
3,3'-Dichlorobenzidine	91-94-1	5	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
3-Nitroaniline	99-09-2	5	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
4-Chloroaniline	106-47-8	5	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
4-Nitroaniline	100-01-6	5	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
4-Nitrophenol	100-02-7	NS	NS	ug/l	<5.13 U	<5.41 U	<5 UJ	<5.26 UJ	<5.26 U	<5.71 U	<5.13 U	<5 U	<5 U	<5.41 U	<5.13 U	<5 U
Acenaphthene	83-32-9	20	NS	ug/l	<0.0513 U	<0.0541 U	0.31	0.263	0.305	0.194	<0.0513 U	<0.05 U	<0.05 U	<0.0541 U	<0.0513 U	<0.05 U
Acenaphthylene	208-96-8	NS	NS	ug/l	<0.0513 U	<0.0541 U	<0.05 U	<0.0526 U	<0.0526 U	<0.0571 U	<0.0513 U	<0.05 U	<0.05 U	<0.0541 U	<0.0513 U	<0.05 U
Acetophenone	98-86-2	NS	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	5	NS	ug/l	<2.56 U	<2.7 U	<2.5 UJ	<2.63 UJ	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
Anthracene	120-12-7	50	NS	ug/l	<0.0513 U	<0.0541 U	<0.05 U	<0.0526 U	<0.0526 U	0.0571	<0.0513 U	<0.05 U	<0.05 U	<0.0541 U	<0.0513 U	<0.05 U
Atrazine	1912-24-9	7.5	NS	ug/l	<0.513 U	<0.541 U	<0.5 U	<0.526 U	<0.526 U	<0.571 U	<0.513 U	<0.5 U	<0.5 U	<0.541 U	<0.513 U	<0.5 U
Benzaldehyde	100-52-7	NS	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
Benzidine	92-87-5	5	NS	ug/l	<5.13 U	<5.41 U	<5 U	<5.26 U	<5.26 U	<5.71 U	<5.13 U	<5 U	<5 U	<5.41 U	<5.13 U	<5 U
Benzo(a)anthracene	56-55-3	0.002	NS	ug/l	<0.0513 U	<0.0541 U	<0.05 U	<0.0526 U	<0.0526 U	<0.0571 U	<0.0513 U	<0.05 U	<0.05 U	<0.0541 U	<0.0513 U	<0.05 U
Benzo(a)pyrene	50-32-8	0	NS	ug/l	<0.0513 U	<0.0541 U	<0.05 U	<0.0526 U	<0.0526 U	<0.0571 U	<0.0513 U	<0.05 U	<0.05 U	<0.0541 U	<0.0513 U	<0.05 U
Benzo(b)fluoranthene	205-99-2	0.002	NS	ug/l	<0.0513 U	<0.0541 U	<0.05 U	<0.0526 U	<0.0526 U	<0.0571 U	<0.0513 U	<0.05 U	<0.05 U	<0.0541 U	<0.0513 U	<0.05 U
Benzo(g,h,i)Perylene	191-24-2	NS	NS	ug/l	<0.0513 U	<0.0541 U	<0.05 U	<0.0526 U	<0.0526 U	<0.0571 U	<0.0513 U	<0.05 U	<0.05 U	<0.0541 U	<0.0513 U	<0.05 U
Benzo(k)fluoranthene	207-08-9	0.002	NS	ug/l	<0.0513 U	<0.0541 U	<0.05 U	<0.0526 U	<0.0526 U	<0.0571 U	<0.0513 U	<0.05 U	<0.05 U	<0.0541 U	<0.0513 U	<0.05 U
Benzoic Acid	65-85-0	NS	NS	ug/l	<2.56 UJ	<2.7 UJ	<2.5 UJ	<2.63 UJ	<2.63 UJ	<2.86 UJ	<2.56 UJ	<2.5 UJ	<2.5 UJ	<2.7 UJ	<2.56 UJ	<2.5 UJ
Benzyl Alcohol	100-51-6	NS	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
Benzyl Butyl Phthalate	85-68-7	50	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
Biphenyl (Diphenyl)	92-52-4	5	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
Bis(2-chloroethoxy) methane	111-91-1	5	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	1	NS	ug/l	<1.03 U	<1.08 U	<1 U	<1.05 U	<1.05 U	<1.14 U	<1.03 U	<1 U	<1 U	<1.08 U	<1.03 U	<1 U
Bis(2-chloroisopropyl) ether	108-60-1	5	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
Bis(2-ethylhexyl) phthalate	117-81-7	5	NS	ug/l	<0.708 U	<0.541 U	<0.5 U	<0.526 U	<0.526 U	<0.571 U	<0.513 U	<0.5 U	<0.5 U	<0.541 U	<0.513 U	<0.5 U
Caprolactam	105-60-2	NS	NS	ug/l	<2.56 U	<2.7 U	<2.5 UJ	<2.63 UJ	<2.63 UJ	<2.86 UJ	<2.56 UJ	<2.5 U	<2.5 U	<2.7 UJ	<2.56 U	<2.5 UJ
Carbazole	86-74-8	NS	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
Chrysene	218-01-9	0.002	NS	ug/l	<0.0513 U	<0.0541 U	<0.05 U	<0.0526 U	<0.0526 U	<0.0571 U	<0.0513 U	<0.05 U	<0.05 U	<0.0541 U	<0.0513 U	<0.05 U
Dibenz(a,h)anthracene	53-70-3	NS	NS	ug/l	<0.0513 U	<0.0541 U	<0.05 U	<0.0526 U	<0.0526 U	<0.0571 U	<0.0513 U	<0.05 U	<0.05 U	<0.0541 U	<0.0513 U	<0.05 U
Dibenzofuran	132-64-9	NS	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
Dibutyl phthalate	84-74-2	50	NS	ug/l	<2.56 U	<2.7 U	<2.5 UJ	<2.63 UJ	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
Diethyl phthalate	84-66-2	50	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
Dimethyl phthalate	131-11-3	50	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
Dioctyl phthalate	117-84-0	50	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
Diphenylamine	122-39-4	5	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
Fluoranthene	206-44-0	50	NS	ug/l	<0.0513 U	<0.0541 U	<0.05 U	<0.0526 U	<0.0526 U	0.0914	<0.0513 U	<0.05 U	<0.05 U	<0.0541 U	<0.0513 U	<0.05 U
Fluorene	86-73-7	50	NS	ug/l	<0.0513 U	<0.0541 U	0.11	0.105	0.0526	0.137	0.328	<0.05 U	<0.05 U	<0.0541 U	<0.0513 U	<0.05 U
Hexachlorobenzene	118-74-1	0.04	NS	ug/l	<0.0205 U	<0.0216 U	<0.02 U	<0.0211 U	<0.0211 U	<0.0229 U	<0.0205 U	<0.02 U	<0.02 U	<0.0216 U	<0.0205 U	<0.02 U
Hexachlorobutadiene	87-68-3	0.5	NS	ug/l	<0.513 U	<0.541 U	<0.5 U	<0.526 U	<0.526 U	<0.571 U	<0.513 U	<0.5 U	<0.5 U	<0.541 U	<0.513 U	<0.5 U
Hexachlorocyclopentadiene	77-47-4	5	NS	ug/l	<5.13 U	<5.41 U	<5 U	<5.26 U	<5.26 U	<5.71 U	<5.13 U	<5 U	<5 U	<5.41 U	<5.13 U	<5 U
Hexachloroethane	67-72-1	5	NS	ug/l	<0.513 U	<0.541 U	<0.5 U	<0.526 U	<0.526 U	<0.571 U	<0.513 U	<0.5 U	<0.5 U	<0.541 U	<0.513 U	<0.5 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	NS	ug/l	<0.0513 U	<0.0541 U	<0.05 U	<0.0526 U	<0.0526 U	<0.0571 U	<0.0513 U	<0.05 U	<0.05 U	<0.0541 U	<0.0513 U	<0.05 U
Isophorone	78-59-1	50	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
Naphthalene	91-20-3	10	NS	ug/l	<0.0513 U	<0.0541 U	1.22	1.08	0.0737	<0.0571 U	0.0615	<0.05 U	<0.05 U	<0.0541 U	0.133	0.07
Nitrobenzene	98-95-3	0.4	NS	ug/l	<0.256 U	<0.27 U	<0.25 U	<0.263 U	<0.263 U	<0.286 U	<0.256 U	<0.25 U	<0.25 U	<0.27 U	<0.256 U	<0.25 U
n-Nitrosodimethylamine	62-75-9	NS	NS	ug/l	<0.513 UJ	<0.541 UJ	<0.5 UJ	<0.526 UJ	<0.526 U	<0.571 U	<0.513 U	<0.5 UJ	<0.5 UJ	<0.541 U	<0.513 UJ	<0.5 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
n-Nitrosodiphenylamine	86-30-6	50	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
Pentachlorophenol	87-86-5	1	NS	ug/l	<0.256 U	<0.27 U	<0.25 U	<0.263 U	<0.263 U	<0.286 U	<0.256 U	<0.25 U	<0.25 U	<0.27 U	<0.256 U	<0.25 U
Phenanthrene	85-01-8	50	NS	ug/l	<0.0513 U	<0.0541 U	0.13	0.126	0.0842	0.251	<0.0513 U	<0.05 U	<0.05 U	<0.0541 U	<0.0513 U	<0.05 U
Phenol	108-95-2	1	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U
Pyrene	129-00-0	50	NS	ug/l	<0.0513 U	<0.0541 U	<0.05 U	<0.0526 U	<0.0526 U	0.0914	<0.0513 U	<0.05 U	<0.05 U	<0.0541 U	<0.0513 U	0.08
Pyridine	110-86-1	50	NS	ug/l	<2.56 U	<2.7 U	<2.5 U	<2.63 U	<2.63 U	<2.86 U	<2.56 U	<2.5 U	<2.5 U	<2.7 U	<2.56 U	<2.5 U

Notes provided on Page 5.
Concentrations above NYSDEC SGVs are bolded.
Concentrations above NYSDEC Guidance Values are shaded.

Table 5B
Remedial Investigation Report
Groundwater Sample Analytical Results - Block 1822 (F)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC SGVs	NYSDEC Guidance Values	Location	F-MW101	F-MW102	F-MW103	F-MW103	F-MW104	F-MW105	F-MW106	F-MW107	F-MW108	F-MW109	F-MW110	F-MW111
				Sample Name	F-MW101_093021	F-MW102_093021	F-MW103_101321	GWDUP03_101321	F-MW104_100121	F-MW105_100121	F-MW106_100421	F-MW107_093021	F-MW108_093021	F-MW109_100121	F-MW110_093021	F-MW111_100421
				Sample Date	9/30/2021	9/30/2021	10/13/2021	10/13/2021	10/1/2021	10/1/2021	10/4/2021	9/30/2021	9/30/2021	10/1/2021	9/30/2021	10/4/2021
				Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Pesticides																
4,4'-DDD	72-54-8	0.3	NS	ug/l	<0.00421 U	<0.00432 U	<0.00421 U	<0.00421 U	<0.004 U	<0.004 U	<0.004 U	<0.00421 U	<0.0041 U	<0.0041 U	<0.00421 U	<0.0041 U
4,4'-DDE	72-55-9	0.2	NS	ug/l	<0.00421 U	<0.00432 U	<0.00421 U	<0.00421 U	<0.004 U	<0.004 U	<0.004 U	<0.00421 U	<0.0041 U	<0.0041 U	<0.00421 U	<0.0041 U
4,4'-DDT	50-29-3	0.2	NS	ug/l	<0.00421 U	<0.00432 U	<0.00421 UJ	<0.00421 UJ	<0.004 U	<0.004 U	<0.004 U	<0.00421 U	<0.0041 U	<0.0041 U	<0.00421 U	<0.0041 U
Aldrin	309-00-2	0	NS	ug/l	<0.00421 U	<0.00432 U	<0.00421 U	<0.00421 U	<0.004 U	<0.004 U	<0.004 U	<0.00421 U	<0.0041 U	<0.0041 U	<0.00421 U	<0.0041 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.01	NS	ug/l	<0.00421 U	<0.00432 U	<0.00421 U	<0.00421 U	<0.004 U	<0.004 U	<0.004 U	<0.00421 U	<0.0041 U	<0.0041 U	<0.00421 U	<0.0041 U
Alpha Chlordane	5103-71-9	NS	NS	ug/l	<0.00421 U	<0.00432 U	<0.00421 U	<0.00421 U	<0.004 U	<0.004 U	<0.004 U	<0.00421 U	<0.0041 U	<0.0041 U	<0.00421 U	<0.0041 U
Alpha Endosulfan	959-98-8	NS	NS	ug/l	<0.00421 U	<0.00432 U	<0.00421 U	<0.00421 U	<0.004 U	<0.004 U	<0.004 U	<0.00421 U	<0.0041 U	<0.0041 U	<0.00421 U	<0.0041 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.04	NS	ug/l	<0.00421 U	<0.00432 U	<0.00421 U	<0.00421 U	<0.004 U	<0.004 U	<0.004 U	<0.00421 U	<0.0041 U	<0.0041 U	<0.00421 U	<0.0041 U
Beta Endosulfan	33213-65-9	NS	NS	ug/l	<0.00421 U	<0.00432 U	<0.00421 U	<0.00421 U	<0.004 U	<0.004 U	<0.004 U	<0.00421 U	<0.0041 U	<0.0041 U	<0.00421 U	<0.0041 U
Chlordane (alpha and gamma)	57-74-9	0.05	NS	ug/l	<0.211 U	<0.216 U	<0.211 U	<0.211 U	<0.2 U	<0.2 U	<0.2 U	<0.211 U	<0.205 U	<0.205 U	<0.211 U	<0.205 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	NS	ug/l	<0.00421 U	<0.00432 U	<0.00421 U	<0.00421 U	<0.004 U	<0.004 U	<0.004 U	<0.00421 U	<0.0041 U	<0.0041 U	<0.00421 U	<0.0041 U
Dieldrin	60-57-1	0.004	NS	ug/l	<0.00211 U	<0.00216 U	<0.00211 U	<0.00211 U	<0.002 U	<0.002 U	<0.002 U	<0.00211 U	<0.00205 U	<0.00205 U	<0.00211 U	<0.00205 U
Endosulfan Sulfate	1031-07-8	NS	NS	ug/l	<0.00421 U	<0.00432 U	<0.00421 UJ	<0.00421 UJ	<0.004 U	<0.004 U	<0.004 U	<0.00421 U	<0.0041 U	<0.0041 U	<0.00421 U	<0.0041 U
Endrin	72-20-8	0	NS	ug/l	<0.00421 U	<0.00432 U	<0.00421 U	<0.00421 U	<0.004 U	<0.004 U	<0.004 U	<0.00421 U	<0.0041 U	<0.0041 U	<0.00421 U	<0.0041 U
Endrin Aldehyde	7421-93-4	5	NS	ug/l	<0.0105 U	<0.0108 U	<0.0105 UJ	<0.0105 UJ	<0.01 U	<0.01 U	<0.01 U	<0.0105 U	<0.0103 U	<0.0103 U	<0.0105 U	<0.0103 U
Endrin Ketone	53494-70-5	5	NS	ug/l	<0.0105 U	<0.0108 U	<0.0105 U	<0.0105 U	<0.01 U	<0.01 U	<0.01 U	<0.0105 U	<0.0103 U	<0.0103 U	<0.0105 U	<0.0103 U
Gamma Bhc (Lindane)	58-89-9	0.05	NS	ug/l	<0.00421 U	<0.00432 U	<0.00421 U	<0.00421 U	<0.004 U	<0.004 U	<0.004 U	<0.00421 U	<0.0041 U	<0.0041 U	<0.00421 U	<0.0041 U
Gamma-Chlordane	5566-34-7	NS	NS	ug/l	<0.0105 U	<0.0108 U	<0.0105 U	<0.0105 U	<0.01 U	<0.01 U	<0.01 U	<0.0105 U	<0.0103 U	<0.0103 U	<0.0105 U	<0.0103 U
Heptachlor	76-44-8	0.04	NS	ug/l	<0.00421 U	<0.00432 U	<0.00421 U	<0.00421 U	<0.004 U	<0.004 U	<0.004 U	<0.00421 U	<0.0041 U	<0.0041 U	<0.00421 U	<0.0041 U
Heptachlor Epoxide	1024-57-3	0.03	NS	ug/l	<0.00421 U	<0.00432 U	<0.00421 U	<0.00421 U	<0.004 U	<0.004 U	<0.004 U	<0.00421 U	<0.0041 U	<0.0041 U	<0.00421 U	<0.0041 U
Methoxychlor	72-43-5	35	NS	ug/l	<0.00421 U	<0.00432 U	<0.00421 U	<0.00421 U	<0.004 U	<0.004 U	<0.004 U	<0.00421 U	<0.0041 U	<0.0041 U	<0.00421 U	<0.0041 U
Toxaphene	8001-35-2	0.06	NS	ug/l	<0.105 U	<0.108 U	<0.105 U	<0.105 U	<0.1 U	<0.1 U	<0.1 U	<0.105 U	<0.103 U	<0.103 U	<0.105 U	<0.103 U
Polychlorinated Biphenyl																
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	ug/l	<0.0526 U	<0.0541 U	<0.0526 U	<0.0526 U	<0.05 U	<0.05 U	<0.05 U	<0.0526 U	<0.0513 U	<0.0513 U	<0.0526 U	<0.0513 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	ug/l	<0.0526 U	<0.0541 U	<0.0526 U	<0.0526 U	<0.05 U	<0.05 U	<0.05 U	<0.0526 U	<0.0513 U	<0.0513 U	<0.0526 U	<0.0513 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	ug/l	<0.0526 U	<0.0541 U	<0.0526 U	<0.0526 U	<0.05 U	<0.05 U	<0.05 U	<0.0526 U	<0.0513 U	<0.0513 U	<0.0526 U	<0.0513 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	ug/l	<0.0526 U	<0.0541 U	<0.0526 U	<0.0526 U	<0.05 U	<0.05 U	<0.05 U	<0.0526 U	<0.0513 U	<0.0513 U	<0.0526 U	<0.0513 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	ug/l	<0.0526 U	<0.0541 U	<0.0526 U	<0.0526 U	<0.05 U	<0.05 U	<0.05 U	<0.0526 U	<0.0513 U	<0.0513 U	<0.0526 U	<0.0513 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	ug/l	<0.0526 U	<0.0541 U	<0.0526 U	<0.0526 U	<0.05 U	<0.05 U	<0.05 U	<0.0526 U	<0.0513 U	<0.0513 U	<0.0526 U	<0.0513 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	ug/l	<0.0526 U	<0.0541 U	<0.0526 U	<0.0526 U	<0.05 U	<0.05 U	<0.05 U	<0.0526 U	<0.0513 U	<0.0513 U	<0.0526 U	<0.0513 U
Total PCBs	1336-36-3	0.09	NS	ug/l	<0.0526 U	<0.0541 U	<0.0526 U	<0.0526 U	<0.05 U	<0.05 U	<0.05 U	<0.0526 U	<0.0513 U	<0.0513 U	<0.0526 U	<0.0513 U
Metals - Dissolved																
Aluminum	7429-90-5	NS	NS	ug/l	<50 U	<50 U	<163 U	<168 U	<50 U	<50 U	53.2	<50 U	66.4	<50 U	<50 U	<50 U
Antimony	7440-36-0	3	NS	ug/l	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	1.7	<1.11 U	<1.11 U	<1.11 U
Arsenic	7440-38-2	25	NS	ug/l	1.13	1.45	9.17	9.41	1.35	2.08	1.96	<1.11 U	4.77	1.42	7.45	4.34
Barium	7440-39-3	1000	NS	ug/l	382	400	88	84.5	359	300	53.9	342	376	516	221	296
Beryllium	7440-41-7	3	NS	ug/l	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U
Cadmium	7440-43-9	5	NS	ug/l	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.556 U
Calcium	7440-70-2	NS	NS	ug/l	61,300	64,600	45,300	43,000	57,100	46,000	81,200	56,500	72,700	53,900	50,500	26,700
Chromium, Total	7440-47-3	50	NS	ug/l	<5 U	<5 U	<5.56 U	<5.56 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Cobalt	7440-48-4	NS	NS	ug/l	<4 U	<4 U	<4.44 U	<4.44 U	<4 U	<4 U	<4 U	<4 U	<4 U	<4 U	<4 U	<4 U
Copper	7440-50-8	200	NS	ug/l	<20 U	<20 U	<22.2 U	<22.2 U	<20 U	<20 U	<20 U	<20 U	21.3	<20 U	<20 U	<20 U
Iron	7439-89-6	**300**	NS	ug/l	**658**	**1,300**	<278 U	<278 U	<250 U	**1,460**	**613**	**305**	<250 U	**1,180**	**1,500**	**1,290**
Lead	7439-92-1	25	NS	ug/l	<5 U	<5 U	<5.56 U	<5.56 U	<5 U	<5 U	<5 U	<5 U	6.35	<5 U	<5 U	<5 U
Magnesium	7439-95-4	35000	NS	ug/l	9,140	8,770	1,290	1,280	12,700	4,650	1,950	8,810	8,070	11,200	5,330	4,380
Manganese	7439-96-5	**300**	NS	ug/l	**380**	**411**	24.4	25.3	**315**	174	31.1	**478**	296	**332**	86.4	58.5
Mercury	7439-97-6	0.7	NS	ug/l	0.3	0.3	<0.2 U	<0.2 U	0.3	0.3	0.2	0.3	0.3	0.3	0.3	<0.2 U
Nickel	7440-02-0	100	NS	ug/l	<10 U	<10 U	<11.1 U	<11.1 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U
Potassium	7440-09-7	NS	NS	ug/l	11,300	10,700	5,520	5,460	10,900	8,600	38,300	12,700	13,100	15,300	20,000	7,300
Selenium	7782-49-2	10	NS	ug/l	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U
Silver	7440-22-4	50	NS	ug/l	<5 U	<5 U	<5.56 U	<5.56 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Sodium	7440-23-5	**20000**	NS	ug/l	**43,200**	**37,400**	18,900	18,900	**80,900**	**27,100**	**35,600**	**63,600**	**49,100**	**96,300**	**42,700**	**29,000**
Thallium	7440-28-0	0.5	NS	ug/l	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U
Vanadium	7440-62-2	NS	NS	ug/l	<10 U	<10 U	<11.1 U	<11.1 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U
Zinc	7440-66-6	2000	NS	ug/l	<25 U	<25 U	<27.8 U	<27.8 U	<25 U	<25 U	<25 U	98.5	202	<25 U	<25 U	<25 U
Metals - Total																
Aluminum	7429-90-5	NS	NS	ug/l	<184 U	<55.6 U	172	199	<55.6 U	<70.8 U	<55.6 U	<73.5 U	<67.3 U	<73.5 U	<138 U	137
Antimony	7440-36-0	3	NS	ug/l	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	1.25	<1.11 U	<1.11 U	<1.11 U
Arsenic	7440-38-2	25	NS	ug/l	2.25	4.38	8.89	9.19	5.21	2.96	1.49	3.55	10.4	10.5	7.1	4.96
Barium	7440-39-3	1000	NS	ug/l	483	501	91.9	92.7	382	327	59.5	411	415	656	255	328
Beryllium	7440-41-7	3	NS	ug/l	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U
Cadmium	7440-43-9	5	NS	ug/l	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.556 U
Calcium	7440-70-2	NS	NS	ug/l	68,700	70,600	45,600	46,300	50,500	49,000	89,900	61,100	80,200	60,200	56,000	29,700
Chromium, Hexavalent	18540-29-9	50	NS	ug/l	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U
Chromium, Total	7440-47-3	NS	NS	ug/l	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U
Chromium, Trivalent	16065-83-1	NS	NS	ug/l	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U
Cobalt	7440-48-4	NS	NS	ug/l	<4.44 U	<4.44 U	<4.44 U	<4.44 U	<4.44 U	<4.44 U	<4.44 U	<4.44 U	<4.44 U	<4.44 U	<4.44 U	<4.44 U
Copper	7440-50-8	200	NS	ug/l	<22.2 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U
Cyanide	57-12-5	200	NS	ug/l	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U
Iron	7439-89-6	**300**	NS	ug/l	**7,640**	**8,810**	<278 U	<278 U	**1,070**	**2,160**	**888 J**	**7,200**	**2,460**	**10,100**	**1,750**	**2,530 J**
Lead	7439-92-1	25	NS	ug/l	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U
Magnesium	7439-95-4	35000	NS	ug/l	10,500	9,900	1,340	1,330	1,160	3,560	2,170	9,920	7,700	9,270	11,100	5,330
Manganese	7439-96-5	**300**	NS	ug/l	**430**	**461**	30.7	30.3	285	187	34	**525**	**338**	**360**	111	69.9
Mercury	7439-97-6	**0.7**	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	**1.7**	<0.2 U	<0.2 U	<0.2 U
Nickel	7440-02-0	100	NS	ug/l	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U
Potassium	7440-09-7	NS	NS	ug/l	15,200	13,500	5,700 B	5,540 B	<55.6 U	6,910	44,500 B	15,600	13,000	13,100	25,900	9,610 B
Selenium	7782-49-2	10	NS	ug/l	<1.11 U	<1.11 U	<1.11 U	<1.18 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U
Silver	7440-22-4	50	NS	ug/l	<5.56 UJ	<5.56 UJ	<5.56 U	<5.56 U	<5.56 UJ	<5.56 UJ	<5.56 UJ	<5.56 UJ	<5.56 UJ	<5.56 UJ	<5.56 UJ	<5.56 UJ
Sodium	7440-23-5	**20000**	NS	ug/l	**53,800**	**44,800**	19,700	19,700	688	17,700	**42,400**	**30,500**	**23,500**	**79,700**	**89,100**	**38,500**
Thallium	7440-28-0	0.5	NS	ug/l	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U
Vanadium	7440-62-2	NS	NS	ug/l	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U
Zinc	7440-66-6	2000	NS	ug/l	<27.8 U	<27.8 U	<27.8 U	<27.8 U	<27.8 U	<27.8 U	<27.8 U	126	159	<27.8 U	<27.8 U	37.3

Notes provided on Page 5.
Concentrations above NYSDEC SGVs are bolded.
Concentrations above NYSDEC Guidance Values are shaded.

Table 5B
Remedial Investigation Report
Groundwater Sample Analytical Results - Block 1822 (F)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC SGVs	NYSDEC Guidance Values	Location	F-MW101	F-MW102	F-MW103	F-MW103	F-MW104	F-MW105	F-MW106	F-MW107	F-MW108	F-MW109	F-MW110	F-MW111
				Sample Name	F-MW101_093021	F-MW102_093021	F-MW103_101321	GWDUP03_101321	F-MW104_100121	F-MW105_100121	F-MW106_100421	F-MW107_093021	F-MW108_093021	F-MW109_100121	F-MW110_093021	F-MW111_100421
				Sample Date	9/30/2021	9/30/2021	10/13/2021	10/13/2021	10/1/2021	10/1/2021	10/4/2021	9/30/2021	9/30/2021	10/1/2021	9/30/2021	10/4/2021
				Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Perfluorooctanoic acids																
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	NS	ug/l	<0.00192 U	<0.00192 U	<0.00179 U	<0.00179 U	<0.00192 U	<0.00192 U	0.00213	<0.00192 U	<0.00192 U	<0.00192 U	0.00341	<0.00185 U
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOSAA	2355-31-9	NS	NS	ug/l	<0.00192 U	<0.00192 U	<0.00179 U	<0.00179 U	<0.00192 U	<0.00192 U	0.0102	<0.00192 U	<0.00192 U	<0.00192 U	<0.00192 U	<0.00185 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	ug/l	0.00347	<0.00192 U	<0.00179 U	<0.00179 U	0.00276	0.00211	0.00393	<0.00192 U	0.00309	0.00249	<0.00192 U	<0.00185 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	ug/l	0.00897	0.00953	0.00363	0.00345	0.0085	0.0076	0.0169	0.00936	0.0197	0.0107	0.0109	0.00413
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	ug/l	<0.00192 U	<0.00192 U	<0.00179 U	<0.00179 U	<0.00192 U	<0.00192 U	<0.00185 U	<0.00192 U	<0.00192 U	<0.00192 U	<0.00192 U	<0.00185 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	ug/l	<0.00192 U	<0.00192 U	<0.00179 U	<0.00179 U	<0.00192 U	<0.00192 U	0.00403	<0.00192 U	<0.00192 U	0.00318	0.00331	<0.00185 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	ug/l	<0.00192 U	<0.00192 U	<0.00179 U	<0.00179 U	<0.00192 U	<0.00192 U	<0.00185 U	<0.00192 U	<0.00192 U	<0.00192 U	<0.00192 U	<0.00185 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	ug/l	<0.00192 U	<0.00192 U	<0.00179 U	<0.00179 U	<0.00192 U	<0.00192 U	<0.00185 U	<0.00192 U	<0.00192 U	<0.00192 U	<0.00192 U	<0.00185 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	ug/l	0.00969	0.013	<0.00179 U	<0.00179 U	0.00661	0.00719	0.0142	0.0103	0.0276	0.0156	0.00825	<0.00185 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	ug/l	0.00303	0.00234	<0.00179 U	<0.00179 U	0.00276	0.00224	0.00573	0.00407	0.00529	0.00331	0.0023	<0.00185 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	ug/l	0.00996	0.0117	0.00343	0.0039	0.008	0.00677	0.0148	0.00953	0.0238	0.0193	0.0181	0.00363
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	ug/l	0.00463	0.00455	<0.00179 U	<0.00179 U	0.00434	0.00338	0.00273	0.0049	0.00715	0.00648	0.00271	<0.00185 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	ug/l	<0.00192 UJ	<0.00192 UJ	<0.00179 UJ	0.00358 J	<0.00192 UJ	<0.00192 UJ	<0.00185 UJ	<0.00192 UJ	<0.00192 UJ	<0.00192 UJ	<0.00192 UJ	<0.00185 UJ
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	NS	0.01	ug/l	0.0867	0.0661	0.0163	0.018	0.0839	0.0595	0.122	0.0673	0.0537	0.0707	0.0419	0.0208
Perfluorooctanoic Acid (PFOA)	335-67-1	NS	0.01	ug/l	0.0221	0.0212	0.00368	0.00328	0.017	0.0115	0.0195	0.0195	0.0299	0.0184	0.0143	0.004
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	ug/l	0.0119	0.0122	0.00391	0.00272	0.00969	0.00762	0.0165	0.0203	0.034	0.0375	0.0154	0.00688
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	ug/l	<0.00192 U	<0.00192 U	<0.00179 U	<0.00179 U	<0.00192 U	<0.00192 U	<0.00185 U	<0.00192 U	<0.00192 U	<0.00192 U	<0.00192 U	<0.00185 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	ug/l	<0.00192 U	<0.00192 U	<0.00179 U	<0.00179 U	<0.00192 U	<0.00192 U	<0.00185 U	<0.00192 U	<0.00192 U	<0.00192 U	<0.00192 U	<0.00185 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	ug/l	<0.00192 U	<0.00192 U	<0.00179 U	<0.00179 U	<0.00192 U	<0.00192 U	<0.00185 U	<0.00192 U	<0.00192 U	<0.00192 U	<0.00192 U	<0.00185 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FTS)	39108-34-4	NS	NS	ug/l	<0.00192 U	<0.00192 U	<0.00179 U	<0.00179 U	<0.00192 U	<0.00192 U	<0.00185 U	<0.00192 U	<0.00192 U	0.00948	<0.00192 U	<0.00185 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FTS)	27619-97-2	NS	NS	ug/l	<0.00481 U	<0.00481 U	<0.00446 U	<0.00446 U	<0.00481 U	<0.00481 U	<0.00463 UJ	<0.00481 U	<0.00481 U	0.0176	<0.00481 U	<0.00463 U

Notes provided on Page 5.
Concentrations above NYSDEC SGVs are bolded.
Concentrations above NYSDEC Guidance Values are shaded.

Table 5B
Remedial Investigation Report
Groundwater Sample Analytical Results - Block 1822 (F)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Notes:
CAS - Chemical Abstract Service
NS - No standard
ug/l - microgram per liter
NA - Not analyzed
RL - Reporting limit
<RL - Not detected
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").
Groundwater sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Part 375 Remedial Programs Guidelines for Sampling and Analysis of Per- and Polyfluoroalkyl Substances (PFAS) (January 2021) and the 1,4-Dioxane value reflects the drinking water maximum contaminant level (MCL) adopted by New York State for public water systems (July 2020). Pursuant to Part 375-1.7(f)(2), the NYSDEC will treat the MCL as relevant and appropriate and will consider this value in remedy selection.
The criteria comparison for dissolved total chromium is provided for reference. The promulgated SGVs shown is for hexavalent chromium.

Qualifiers:
D - The concentration reported is a result of a diluted sample.
B - The analyte was found in the associated analysis batch blank.
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
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.

Exceedance Summary:
10 - Result exceeds NYSDEC SGVs
10 - Result exceeds NYSDEC Guidance Values

Table 5C
Remedial Investigation Report
Groundwater Sample Analytical Results - Block 1824 (G)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC SGVs	NYSDEC Guidance Values	Location	G-MW101	G-MW102	G-MW105	G-MW106	G-MW107	G-MW103	G-MW104	G-MW108	G-MW109	G-MW110
				Sample Name	G-MW101_100421	G-MW102_100521	G-MW105_100521	G-MW106_100521	G-MW107_100721	G-MW103_100821	G-MW104_100821	G-MW108_100821	G-MW109_101321	G-MW110_101321
				Sample Date	10/4/2021	10/5/2021	10/5/2021	10/5/2021	10/7/2021	10/8/2021	10/8/2021	10/8/2021	10/13/2021	10/13/2021
				Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds														
1,1,1,2-Tetrachloroethane	630-20-6	5	NS	ug/l	<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
1,1,1-Trichloroethane	71-55-6	5	NS	ug/l	<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
1,1,2,2-Tetrachloroethane	79-34-5	5	NS	ug/l	<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
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	5	NS	ug/l	<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 UJ
1,1,2-Trichloroethane	79-00-5	1	NS	ug/l	<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
1,1-Dichloroethane	75-34-3	5	NS	ug/l	<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
1,1-Dichloroethene	75-35-4	5	NS	ug/l	<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
1,2,3-Trichlorobenzene	87-61-6	5	NS	ug/l	<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
1,2,3-Trichloropropane	96-18-4	0.04	NS	ug/l	<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
1,2,4-Trichlorobenzene	120-82-1	5	NS	ug/l	<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
1,2,4-Trimethylbenzene	95-63-6	5	NS	ug/l	<0.2 U	0.77	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	0.84	<0.2 U
1,2-Dibromo-3-Chloropropane	96-12-8	0.04	NS	ug/l	<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
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.0006	NS	ug/l	<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
1,2-Dichlorobenzene	95-50-1	3	NS	ug/l	<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
1,2-Dichloroethane	107-06-2	0.6	NS	ug/l	<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
1,2-Dichloropropane	78-87-5	1	NS	ug/l	<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
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	5	NS	ug/l	<0.2 U	0.23 J	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	0.36 J	0.76
1,3-Dichlorobenzene	541-73-1	3	NS	ug/l	<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
1,4-Dichlorobenzene	106-46-7	3	NS	ug/l	<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
1,4-Dioxane (P-Dioxane)	123-91-1	NS	1	ug/l	<40 UJ	<40 UJ	<40 U	<40 U	<40 UJ	<40 U	<40 UJ	<40 U	<40 U	<40 U
2-Hexanone (MBK)	591-78-6	50	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 UJ	<0.2 U	<0.2 UJ	<0.2 U	<0.2 U
Acetone	67-64-1	50	NS	ug/l	<1 U	10.9	<1 U	<1 U	<1 U	4.15	1.94 J	1.51 J	12.7	<8.49 U
Acrolein	107-02-8	5	NS	ug/l	<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
Acrylonitrile	107-13-1	5	NS	ug/l	<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
Benzene	71-43-2	1	NS	ug/l	<0.2 U	0.44 J	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	0.33 J
Bromochloromethane	74-97-5	5	NS	ug/l	<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
Bromodichloromethane	75-27-4	50	NS	ug/l	<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
Bromoform	75-25-2	50	NS	ug/l	<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
Bromomethane	74-83-9	5	NS	ug/l	<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
Carbon Disulfide	75-15-0	60	NS	ug/l	<0.2 U	0.24 J	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	0.62	0.2 J
Carbon Tetrachloride	56-23-5	5	NS	ug/l	<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
Chlorobenzene	108-90-7	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	2.42	<0.2 U
Chloroethane	75-00-3	5	NS	ug/l	<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
Chloroform	67-66-3	**7**	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	**13.9**	<0.2 U
Chloromethane	74-87-3	5	NS	ug/l	<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
Cis-1,2-Dichloroethene	156-59-2	5	NS	ug/l	<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	0.5
Cis-1,3-Dichloropropene	10061-01-5	0.4	NS	ug/l	<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
Cyclohexane	110-82-7	NS	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	0.27 J	<0.2 U	0.67
Dibromochloromethane	124-48-1	50	NS	ug/l	<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
Dibromomethane	74-95-3	5	NS	ug/l	<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
Dichlorodifluoromethane	75-71-8	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 UJ	<0.2 U	<0.2 UJ	<0.2 U	<0.2 U	<0.2 U
Ethylbenzene	100-41-4	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	0.9	0.28 J
Hexachlorobutadiene	87-68-3	0.5	NS	ug/l	<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
Isopropylbenzene (Cumene)	98-82-8	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	0.44 J	<0.2 U	<0.2 U
M,P-Xylene	179601-23-1	5	NS	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.2 U	<0.5 U	<0.5 U	<0.5 U	4.01	<0.5 U
Methyl Acetate	79-20-9	NS	NS	ug/l	<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
Methyl Ethyl Ketone (2-Butanone)	78-93-3	50	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	0.82	<0.2 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	ug/l	<0.2 U	0.44 J	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	0.29 J
Methylcyclohexane	108-87-2	NS	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	0.61	<0.2 U	0.29 J
Methylene Chloride	75-09-2	5	NS	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	4.53	<1 U
n-Butylbenzene	104-51-8	5	NS	ug/l	<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
n-Propylbenzene	103-65-1	5	NS	ug/l	<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
o-Xylene (1,2-Dimethylbenzene)	95-47-6	5	NS	ug/l	<0.2 U	0.5	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	1.79	0.95
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	ug/l	<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
Sec-Butylbenzene	135-98-8	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	0.43 J	<0.2 U	<0.2 U
Styrene	100-42-5	5	NS	ug/l	<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 J	0.29 J
T-Butylbenzene	98-06-6	5	NS	ug/l	<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
Tert-Butyl Alcohol	75-65-0	NS	NS	ug/l	<0.5 UJ	1.33 J	<0.5 UJ	0.56 J	<0.5 UJ	<0.5 UJ	<0.5 UJ	<0.5 UJ	<0.5 UJ	<0.5 UJ
Tert-Butyl Methyl Ether	1634-04-4	10	NS	ug/l	2.4	4.36	0.84	1.73	1.5	1.31 J	1	1.72 J	<0.2 U	1.58
Tetrachloroethene (PCE)	127-18-4	5	NS	ug/l	<0.2 U	<0.2 U	0.21 J	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	0.82
Toluene	108-88-3	5	NS	ug/l	<0.2 U	0.34 J	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	4.56	1.19
Total Xylenes	1330-20-7	**5**	NS	ug/l	<0.6 U	0.83 J	<0.6 U	<0.6 U	<0.6 U	<0.6 U	<0.6 U	<0.6 U	**5.8**	1.29 J
Trans-1,2-Dichloroethene	156-60-5	5	NS	ug/l	<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
Trans-1,3-Dichloropropene	10061-02-6	0.4	NS	ug/l	<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
Trichloroethene (TCE)	79-01-6	5	NS	ug/l	<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	0.29 J
Trichlorofluoromethane	75-69-4	5	NS	ug/l	<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
Vinyl Chloride	75-01-4	2	NS	ug/l	<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

Notes provided on Page 5.
Concentrations above NYSDEC SGVs are bolded.
Concentrations above NYSDEC Guidance Values are shaded.

Table 5C
Remedial Investigation Report
Groundwater Sample Analytical Results - Block 1824 (G)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC SGVs	NYSDEC Guidance Values	Location	G-MW101	G-MW102	G-MW105	G-MW106	G-MW107	G-MW103	G-MW104	G-MW108	G-MW109	G-MW110
				Sample Name	G-MW101_100421	G-MW102_100521	G-MW105_100521	G-MW106_100521	G-MW107_100721	G-MW103_100821	G-MW104_100821	G-MW108_100821	G-MW109_101321	G-MW110_101321
				Sample Date	10/4/2021	10/5/2021	10/5/2021	10/5/2021	10/7/2021	10/8/2021	10/8/2021	10/8/2021	10/13/2021	10/13/2021
				Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds														
1,2,4,5-Tetrachlorobenzene	95-94-3	5	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
1,2-Diphenylhydrazine	122-66-7	0	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
1,4-Dioxane (P-Dioxane)	123-91-1	NS	1	ug/l	<0.3 U	<0.3 U	<0.3 U	<0.3 U	<0.3 U	<0.3 U	<0.3 U	<0.3 U	<0.3 U	0.96
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 UJ	<2.7 UJ
2,4,6-Trichlorophenol	88-06-2	NS	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
2,4-Dichlorophenol	120-83-2	1	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
2,4-Dimethylphenol	105-67-9	1	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
2,4-Dinitrophenol	51-28-5	1	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 UJ	<2.7 UJ
2,4-Dinitrotoluene	121-14-2	5	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
2,6-Dinitrotoluene	606-20-2	5	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
2-Chloronaphthalene	91-58-7	10	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
2-Chlorophenol	95-57-8	NS	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
2-Methylnaphthalene	91-57-6	NS	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
2-Methylphenol (o-Cresol)	95-48-7	NS	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
2-Nitroaniline	88-74-4	5	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
2-Nitrophenol	88-75-5	NS	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	NS	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	12.6	<2.7 U
3,3'-Dichlorobenzidine	91-94-1	5	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
3-Nitroaniline	99-09-2	5	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
4-Chloroaniline	106-47-8	5	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
4-Nitroaniline	100-01-6	5	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
4-Nitrophenol	100-02-7	NS	NS	ug/l	<5.56 U	<5.26 UJ	<5.13 UJ	<5 U	<5.26 U	<5.13 U	<5.26 U	<5 U	<5.41 UJ	<5.41 UJ
Acenaphthene	83-32-9	20	NS	ug/l	<0.0556 U	0.0632	<0.0513 U	<0.05 U	<0.0526 U	<0.0513 U	<0.0526 U	<0.05 U	0.0757	0.108
Acenaphthylene	208-96-8	NS	NS	ug/l	<0.0556 U	<0.0526 U	<0.0513 U	<0.05 U	<0.0526 U	<0.0513 U	<0.0526 U	<0.05 U	<0.0541 U	<0.0541 U
Acetophenone	98-86-2	NS	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	5	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 UJ	<2.7 UJ
Anthracene	120-12-7	50	NS	ug/l	<0.0556 U	<0.0526 U	<0.0513 U	<0.05 U	<0.0526 U	<0.0513 U	<0.0526 U	<0.05 U	<0.0541 U	<0.0541 U
Atrazine	1912-24-9	7.5	NS	ug/l	<0.556 U	<0.526 U	<0.513 U	<0.5 U	<0.526 U	<0.513 U	<0.526 U	<0.5 U	<0.541 U	<0.541 U
Benzaldehyde	100-52-7	NS	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
Benzidine	92-87-5	5	NS	ug/l	<5.56 U	<5.26 U	<5.13 U	<5 U	<5.26 U	<5.13 U	<5.26 U	<5 U	<5.41 U	<5.41 U
Benzo(a)anthracene	56-55-3	0.002	NS	ug/l	<0.0556 U	<0.0526 U	<0.0513 U	<0.05 U	<0.0526 U	<0.0513 U	<0.0526 U	<0.05 U	<0.0541 U	<0.0541 U
Benzo(a)pyrene	50-32-8	0	NS	ug/l	<0.0556 U	<0.0526 U	<0.0513 U	<0.05 U	<0.0526 U	<0.0513 U	<0.0526 U	<0.05 U	<0.0541 U	<0.0541 U
Benzo(b)fluoranthene	205-99-2	0.002	NS	ug/l	<0.0556 U	<0.0526 U	<0.0513 U	<0.05 U	<0.0526 U	<0.0513 U	<0.0526 U	<0.05 U	<0.0541 U	<0.0541 U
Benzo(g,h,i)Perylene	191-24-2	NS	NS	ug/l	<0.0556 U	<0.0526 U	<0.0513 U	<0.05 U	<0.0526 U	<0.0513 U	<0.0526 U	<0.05 U	<0.0541 U	<0.0541 U
Benzo(k)fluoranthene	207-08-9	0.002	NS	ug/l	<0.0556 U	<0.0526 U	<0.0513 U	<0.05 U	<0.0526 U	<0.0513 U	<0.0526 U	<0.05 U	<0.0541 U	<0.0541 U
Benzoic Acid	65-85-0	NS	NS	ug/l	<2.78 UJ	<2.63 UJ	<2.56 UJ	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	9.33 J	<2.7 UJ
Benzyl Alcohol	100-51-6	NS	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
Benzyl Butyl Phthalate	85-68-7	50	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
Biphenyl (Diphenyl)	92-52-4	5	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
Bis(2-chloroethoxy) methane	111-91-1	5	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	1	NS	ug/l	<1.11 U	<1.05 U	<1.03 U	<1 U	<1.05 U	<1.03 U	<1.05 U	<1 U	<1.08 U	<1.08 U
Bis(2-chloroisopropyl) ether	108-60-1	5	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
Bis(2-ethylhexyl) phthalate	117-81-7	5	NS	ug/l	<0.556 U	<0.526 U	<0.513 U	<0.69 U	<0.526 U	<0.513 U	<0.526 U	2.48	<0.541 U	<0.638 U
Caprolactam	105-60-2	NS	NS	ug/l	<2.78 UJ	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 UJ	<2.7 UJ
Carbazole	86-74-8	NS	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
Chrysene	218-01-9	0.002	NS	ug/l	<0.0556 U	<0.0526 U	<0.0513 U	<0.05 U	<0.0526 U	<0.0513 U	<0.0526 U	<0.05 U	<0.0541 U	<0.0541 U
Dibenz(a,h)anthracene	53-70-3	NS	NS	ug/l	<0.0556 U	<0.0526 U	<0.0513 U	<0.05 U	<0.0526 U	<0.0513 U	<0.0526 U	<0.05 U	<0.0541 U	<0.0541 U
Dibenzofuran	132-64-9	NS	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
Dibutyl phthalate	84-74-2	50	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 UJ	<2.7 UJ
Diethyl phthalate	84-66-2	50	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
Dimethyl phthalate	131-11-3	50	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
Dioctyl phthalate	117-84-0	50	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
Diphenylamine	122-39-4	5	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
Fluoranthene	206-44-0	50	NS	ug/l	<0.0556 U	<0.0526 U	<0.0513 U	<0.05 U	<0.0526 U	<0.0513 U	<0.0526 U	0.05	0.0865	0.108
Fluorene	86-73-7	50	NS	ug/l	<0.0556 U	0.0526	<0.0513 U	0.05	<0.0526 U	<0.0513 U	<0.0526 U	<0.05 U	0.108	0.13
Hexachlorobenzene	118-74-1	0.04	NS	ug/l	<0.0222 U	<0.0211 U	<0.0205 U	<0.02 U	<0.0211 U	<0.0205 U	<0.0211 U	<0.02 U	<0.0216 U	<0.0216 U
Hexachlorobutadiene	87-68-3	0.5	NS	ug/l	<0.556 U	<0.526 U	<0.513 U	<0.5 U	<0.526 U	<0.513 U	<0.526 U	<0.5 U	<0.541 U	<0.541 U
Hexachlorocyclopentadiene	77-47-4	5	NS	ug/l	<5.56 U	<5.26 U	<5.13 U	<5 UJ	<5.26 UJ	<5.13 UJ	<5.26 UJ	<5 UJ	<5.41 U	<5.41 U
Hexachloroethane	67-72-1	5	NS	ug/l	<0.556 U	<0.526 U	<0.513 U	<0.5 U	<0.526 U	<0.513 U	<0.526 U	<0.5 U	<0.541 U	<0.541 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	NS	ug/l	<0.0556 U	<0.0526 U	<0.0513 U	<0.05 U	<0.0526 U	<0.0513 U	<0.0526 U	<0.05 U	<0.0541 U	<0.0541 U
Isophorone	78-59-1	50	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
Naphthalene	91-20-3	10	NS	ug/l	<0.0556 U	<0.0526 U	<0.0513 U	0.77	<0.0526 U	<0.0513 U	<0.0526 U	<0.05 U	0.184	0.227
Nitrobenzene	98-95-3	0.4	NS	ug/l	<0.278 U	<0.263 U	<0.256 U	<0.25 U	<0.263 U	<0.256 U	<0.263 U	<0.25 U	<0.27 U	<0.27 U
n-Nitrosodimethylamine	62-75-9	NS	NS	ug/l	<0.556 U	<0.526 U	<0.513 U	<0.5 U	<0.526 UJ	<0.513 UJ	<0.526 UJ	<0.5 UJ	<0.541 UJ	<0.541 UJ
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
n-Nitrosodiphenylamine	86-30-6	50	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U
Pentachlorophenol	87-86-5	1	NS	ug/l	<0.278 U	<0.263 U	<0.256 U	<0.25 U	<0.263 U	<0.256 U	<0.263 U	<0.25 U	<0.27 U	<0.27 U
Phenanthrene	85-01-8	50	NS	ug/l	<0.0556 U	<0.0526 U	<0.0513 U	<0.05 U	<0.0526 U	<0.0513 U	<0.0526 U	0.06	0.162	0.259
Phenol	108-95-2	**1**	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	**19.9**	<2.7 U
Pyrene	129-00-0	50	NS	ug/l	<0.0556 U	<0.0526 U	<0.0513 U	0.09	<0.0526 U	<0.0513 U	0.0526	<0.05 U	0.0757	0.141
Pyridine	110-86-1	50	NS	ug/l	<2.78 U	<2.63 U	<2.56 U	<2.5 U	<2.63 U	<2.56 U	<2.63 U	<2.5 U	<2.7 U	<2.7 U

Notes provided on Page 5.
Concentrations above NYSDEC SGVs are bolded.
Concentrations above NYSDEC Guidance Values are shaded.

Table 5C
Remedial Investigation Report
Groundwater Sample Analytical Results - Block 1824 (G)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC SGVs	NYSDEC Guidance Values	Location	G-MW101	G-MW102	G-MW105	G-MW106	G-MW107	G-MW103	G-MW104	G-MW108	G-MW109	G-MW110
				Sample Name	G-MW101_100421	G-MW102_100521	G-MW105_100521	G-MW106_100521	G-MW107_100721	G-MW103_100821	G-MW104_100821	G-MW108_100821	G-MW109_101321	G-MW110_101321
				Sample Date	10/4/2021	10/5/2021	10/5/2021	10/5/2021	10/7/2021	10/8/2021	10/8/2021	10/8/2021	10/13/2021	10/13/2021
				Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Pesticides														
4,4'-DDD	72-54-8	0.3	NS	ug/l	<0.00421 U	<0.0041 U	<0.00444 U	<0.004 U	<0.0041 U	<0.00421 U	<0.004 U	<0.0041 U	0.00655	<0.00444 U
4,4'-DDE	72-55-9	0.2	NS	ug/l	<0.00421 U	<0.0041 U	<0.00444 U	<0.004 U	<0.0041 U	<0.00421 U	<0.004 U	<0.0041 U	<0.00432 U	<0.00444 U
4,4'-DDT	50-29-3	0.2	NS	ug/l	<0.00421 U	<0.0041 U	<0.00444 U	<0.004 U	<0.0041 U	<0.00421 U	<0.004 U	<0.0041 U	<0.00432 U	0.00493
Aldrin	309-00-2	0	NS	ug/l	<0.00421 U	<0.0041 U	<0.00444 U	<0.004 U	<0.0041 U	<0.00421 U	<0.004 U	<0.0041 U	<0.00432 U	<0.00444 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.01	NS	ug/l	<0.00421 U	<0.0041 U	<0.00444 U	<0.004 U	<0.0041 U	<0.00421 U	<0.004 U	<0.0041 U	<0.00432 U	<0.00444 U
Alpha Chlordane	5103-71-9	NS	NS	ug/l	<0.00421 U	<0.0041 U	<0.00444 U	<0.004 U	<0.0041 U	<0.00421 U	<0.004 U	<0.0041 U	<0.00432 U	<0.00444 U
Alpha Endosulfan	959-98-8	NS	NS	ug/l	<0.00421 U	<0.0041 U	<0.00444 U	<0.004 U	<0.0041 U	<0.00421 U	<0.004 U	<0.0041 U	<0.00432 U	<0.00444 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.04	NS	ug/l	<0.00421 U	<0.0041 U	<0.00444 U	<0.004 U	<0.0041 U	<0.00421 U	<0.004 U	<0.0041 U	<0.00432 U	<0.00444 U
Beta Endosulfan	33213-65-9	NS	NS	ug/l	<0.00421 U	<0.0041 U	<0.00444 U	<0.004 U	<0.0041 U	<0.00421 U	<0.004 U	<0.0041 U	<0.00432 U	<0.00444 U
Chlordane (alpha and gamma)	57-74-9	0.05	NS	ug/l	<0.211 U	<0.205 U	<0.222 U	<0.2 U	<0.205 U	<0.211 U	<0.2 U	<0.205 U	<0.216 U	<0.222 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	NS	ug/l	<0.00421 U	<0.0041 U	<0.00444 U	<0.004 U	<0.0041 U	<0.00421 U	<0.004 U	<0.0041 U	<0.00432 U	<0.00444 U
Dieldrin	60-57-1	0.004	NS	ug/l	<0.00211 U	<0.00205 U	<0.00222 U	<0.002 U	<0.00205 U	<0.00211 U	<0.002 U	<0.00205 U	<0.00216 U	<0.00222 U
Endosulfan Sulfate	1031-07-8	NS	NS	ug/l	<0.00421 U	<0.0041 U	<0.00444 U	<0.004 U	<0.0041 U	<0.00421 U	<0.004 U	<0.0041 U	<0.00432 U	<0.00444 U
Endrin	72-20-8	0	NS	ug/l	<0.00421 U	<0.0041 U	<0.00444 U	<0.004 U	<0.0041 U	<0.00421 U	<0.004 U	<0.0041 U	<0.00432 U	<0.00444 U
Endrin Aldehyde	7421-93-4	5	NS	ug/l	<0.0105 U	<0.0103 U	<0.0111 U	<0.01 U	<0.0103 U	<0.0105 U	<0.01 U	<0.0103 U	<0.0108 U	<0.0111 U
Endrin Ketone	53494-70-5	5	NS	ug/l	<0.0105 U	<0.0103 U	<0.0111 U	<0.01 U	<0.0103 U	<0.0105 U	<0.01 U	<0.0103 U	<0.0108 U	<0.0111 U
Gamma Bhc (Lindane)	58-89-9	0.05	NS	ug/l	<0.00421 U	<0.0041 U	<0.00444 U	<0.004 U	<0.0041 U	<0.00421 U	<0.004 U	<0.0041 U	<0.00432 U	<0.00444 U
Gamma-Chlordane	5566-34-7	NS	NS	ug/l	<0.0105 U	<0.0103 U	<0.0111 U	<0.01 U	<0.0103 U	<0.0105 U	<0.01 U	<0.0103 U	<0.0108 U	<0.0111 U
Heptachlor	76-44-8	0.04	NS	ug/l	<0.00421 U	<0.0041 U	<0.00444 U	<0.004 U	<0.0041 U	<0.00421 U	<0.004 U	<0.0041 U	<0.00432 U	<0.00444 U
Heptachlor Epoxide	1024-57-3	0.03	NS	ug/l	<0.00421 U	<0.0041 U	<0.00444 U	<0.004 U	<0.0041 U	<0.00421 U	<0.004 U	<0.0041 U	<0.00432 U	<0.00444 U
Methoxychlor	72-43-5	35	NS	ug/l	<0.00421 U	<0.0041 U	<0.00444 U	<0.004 U	<0.0041 U	<0.00421 U	<0.004 U	<0.0041 U	<0.00432 U	<0.00444 U
Toxaphene	8001-35-2	0.06	NS	ug/l	<0.105 U	<0.103 U	<0.111 U	<0.1 U	<0.103 U	<0.105 U	<0.1 U	<0.103 U	<0.108 U	<0.111 U
Polychlorinated Biphenyl														
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	ug/l	<0.0526 U	<0.0513 U	<0.0556 U	<0.05 U	<0.0513 U	<0.0526 U	<0.05 U	<0.0513 U	<0.0541 U	<0.0556 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	ug/l	<0.0526 U	<0.0513 U	<0.0556 U	<0.05 U	<0.0513 U	<0.0526 U	<0.05 U	<0.0513 U	<0.0541 U	<0.0556 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	ug/l	<0.0526 U	<0.0513 U	<0.0556 U	<0.05 U	<0.0513 U	<0.0526 U	<0.05 U	<0.0513 U	<0.0541 U	<0.0556 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	ug/l	<0.0526 U	<0.0513 U	<0.0556 U	<0.05 U	<0.0513 U	<0.0526 U	<0.05 U	<0.0513 U	<0.0541 U	<0.0556 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	ug/l	<0.0526 U	<0.0513 U	<0.0556 U	<0.05 U	<0.0513 U	<0.0526 U	<0.05 U	<0.0513 U	<0.0541 U	<0.0556 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	ug/l	<0.0526 U	<0.0513 U	<0.0556 U	<0.05 U	<0.0513 U	<0.0526 U	<0.05 U	<0.0513 U	<0.0541 U	<0.0556 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	ug/l	<0.0526 U	<0.0513 U	<0.0556 U	<0.05 U	<0.0513 U	<0.0526 U	<0.05 U	<0.0513 U	<0.0541 U	<0.0556 U
Total PCBs	1336-36-3	0.09	NS	ug/l	<0.0526 U	<0.0513 U	<0.0556 U	<0.05 U	<0.0513 U	<0.0526 U	<0.05 U	<0.0513 U	<0.0541 U	<0.0556 U
Metals - Dissolved														
Aluminum	7429-90-5	NS	NS	ug/l	<50 U	<50 U	<50 U	<50 U	<100 U	80.2	<55.6 U	<55.6 U	2,990	710
Antimony	7440-36-0	3	NS	ug/l	1.55	<1.11 U	<1.11 U	<1.11 U	<2 U	<1.11 UJ	<1.11 U	<1.11 U	1.65	2.19
Arsenic	7440-38-2	25	NS	ug/l	<1.11 U	1.89	<1.11 U	2.22	5.77	10.3	2.53	13.3	4.61	13.2
Barium	7440-39-3	1000	NS	ug/l	926	437	772	463	564	125	165	342	102	219
Beryllium	7440-41-7	3	NS	ug/l	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.6 U	<0.333 UJ	<0.333 U	<0.333 U	<0.333 U	<0.333 U
Cadmium	7440-43-9	5	NS	ug/l	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<1 UJ	<0.556 UJ	<0.556 UJ	<0.556 UJ	<0.556 U	<0.556 U
Calcium	7440-70-2	NS	NS	ug/l	101,000	75,000	60,700	46,600	39,000	55,800	127,000	27,000	92,200	32,700
Chromium, Total	7440-47-3	50	NS	ug/l	<5 U	<5 U	<5 U	<5 U	<10 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U
Cobalt	7440-48-4	NS	NS	ug/l	<4 U	<4 U	<4 U	<4 U	<8 U	<4.44 U	<4.44 U	<4.44 U	<4.44 U	<4.44 U
Copper	7440-50-8	200	NS	ug/l	<20 U	<20 U	<20 U	<20 U	<40 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U
Iron	7439-89-6	**300**	NS	ug/l	**591**	**519 J**	**1,450**	**7,320**	**26,600**	**8,740**	**1,680**	**4,510**	<278 U	<846 U
Lead	7439-92-1	25	NS	ug/l	<5 U	<5 U	<5 U	<5 U	<10 U	<5.56 U	<5.56 U	6.53	<5.56 U	15.1
Magnesium	7439-95-4	35000	NS	ug/l	13,100	12,200	7,300	6,010	6,100	10,600	12,100	6,470	83.9	2,070
Manganese	7439-96-5	**300**	NS	ug/l	**1,300**	**519 J**	**1,390**	**456**	**413**	**475**	120	146	<5.56 U	17.5
Mercury	7439-97-6	0.7	NS	ug/l	<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
Nickel	7440-02-0	100	NS	ug/l	<10 U	<10 U	<10 U	<10 U	<20 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U
Potassium	7440-09-7	NS	NS	ug/l	15,400	16,800	9,950	7,330	6,480	9,990	8,620	10,100	7,140	18,500
Selenium	7782-49-2	10	NS	ug/l	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<2 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	1.18
Silver	7440-22-4	50	NS	ug/l	<5 U	<5 U	<5 U	<5 U	<10 U	<5.56 UJ	<5.56 U	<5.56 U	<5.56 U	<5.56 U
Sodium	7440-23-5	**20000**	NS	ug/l	**98,200**	**92,600**	**33,400**	**29,300**	**29,700**	**68,400**	**64,900**	**56,100**	**423,000**	**33,200**
Thallium	7440-28-0	0.5	NS	ug/l	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<2 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U
Vanadium	7440-62-2	NS	NS	ug/l	<10 U	<10 U	<10 U	<10 U	<20 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U
Zinc	7440-66-6	2000	NS	ug/l	101	<25 U	242	<25 U	<50 U	<27.8 U	29.3	<27.8 U	33.7	31.3
Metals - Total														
Aluminum	7429-90-5	NS	NS	ug/l	<55.6 U	179	68	<55.6 U	<55.6 U	95.6 J	<55.6 U	<55.6 U	2,750	561
Antimony	7440-36-0	3	NS	ug/l	1.99	<1.11 U	1.3	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	1.28	2.07
Arsenic	7440-38-2	25	NS	ug/l	2.5	4.23	1.68	3.78	3.23	11.9	6.6	14.5	4.52	13.4
Barium	7440-39-3	**1000**	NS	ug/l	**1,240**	592	827	538	506	143	175	349	100	217
Beryllium	7440-41-7	3	NS	ug/l	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U
Cadmium	7440-43-9	5	NS	ug/l	<0.556 U	<0.556 U	0.59	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.556 U
Calcium	7440-70-2	NS	NS	ug/l	112,000	86,000	65,500	51,400	41,300 B	58,600 J	128,000	27,900	81,200 B	31,600 B
Chromium, Hexavalent	18540-29-9	50	NS	ug/l	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U
Chromium, Total	7440-47-3	50	NS	ug/l	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U
Chromium, Trivalent	16065-83-1	NS	NS	ug/l	<10 U	<10 U	<10 U	<10 U	NA	<10 U	<10 U	<10 U	<10 U	<10 U
Cobalt	7440-48-4	NS	NS	ug/l	<4.44 U	<4.44 U	<4.44 U	<4.44 U	<4.44 U	<4.44 U	<4.44 U	<4.44 U	<4.44 U	<4.44 U
Copper	7440-50-8	200	NS	ug/l	<22.2 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U	32.3	<22.2 U
Cyanide	57-12-5	200	NS	ug/l	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U
Iron	7439-89-6	**300**	NS	ug/l	**21,300 J**	**11,500**	**5,540**	**15,500**	**12,000**	**10,500**	**3,130**	**4,700**	<2,130 U	<993 U
Lead	7439-92-1	25	NS	ug/l	<5.56 U	8.06	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	17.4
Magnesium	7439-95-4	35000	NS	ug/l	15,100	13,000	7,470	6,460	6,230	10,800	11,600	6,740	96.5	1,900
Manganese	7439-96-5	**300**	NS	ug/l	**1,480**	**619**	**1,490**	**496**	**419**	**512**	148	153	7.09	20.1
Mercury	7439-97-6	0.7	NS	ug/l	<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
Nickel	7440-02-0	100	NS	ug/l	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U
Potassium	7440-09-7	NS	NS	ug/l	19,800 B	17,200 B	10,400 B	7,990 B	6,550	10,700 B	8,840 B	10,000 B	6,180 B	16,800 B
Selenium	7782-49-2	10	NS	ug/l	1.18	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.18 U	<1.11 U
Silver	7440-22-4	50	NS	ug/l	<5.56 UJ	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 UJ	<5.56 U	<5.56 U	<5.56 U	<5.56 U
Sodium	7440-23-5	**20000**	NS	ug/l	**124,000**	**101,000 J**	**34,200 J**	**32,000 J**	**31,100**	**68,600 J**	**69,300 J**	**57,400 J**	<13,200 U	**29,800 J**
Thallium	7440-28-0	0.5	NS	ug/l	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U
Vanadium	7440-62-2	NS	NS	ug/l	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U
Zinc	7440-66-6	2000	NS	ug/l	214	<27.8 U	350	<27.8 U	<27.8 U	<27.8 U	45.7	<27.8 U	<27.8 U	32.6

Notes provided on Page 5.
Concentrations above NYSDEC SGVs are bolded.
Concentrations above NYSDEC Guidance Values are shaded.

Table 5C
Remedial Investigation Report
Groundwater Sample Analytical Results - Block 1824 (G)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC SGVs	NYSDEC Guidance Values	Location	G-MW101	G-MW102	G-MW105	G-MW106	G-MW107	G-MW103	G-MW104	G-MW108	G-MW109	G-MW110
				Sample Name	G-MW101_100421	G-MW102_100521	G-MW105_100521	G-MW106_100521	G-MW107_100721	G-MW103_100821	G-MW104_100821	G-MW108_100821	G-MW109_101321	G-MW110_101321
				Sample Date	10/4/2021	10/5/2021	10/5/2021	10/5/2021	10/7/2021	10/8/2021	10/8/2021	10/8/2021	10/13/2021	10/13/2021
				Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Perfluorooctanoic acids														
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	NS	ug/l	<0.00185 U	<0.00185 U	<0.00185 U	<0.00185 U	<0.00179 U	<0.002 U	<0.00192 U	<0.00192 U	<0.00179 U	0.00439
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOSAA	2355-31-9	NS	NS	ug/l	<0.00185 U	<0.00185 U	<0.00185 U	<0.00185 U	<0.00179 U	<0.002 U	<0.00192 U	<0.00192 U	<0.00179 U	<0.00179 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	ug/l	0.00493	0.00456	0.00212	0.00274	<0.00179 U	0.00376	0.0126	<0.00192 U	<0.00179 U	<0.00179 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	ug/l	0.0063	0.00624	0.00486	0.00384	0.00396	0.00304	0.0229	<0.00192 U	0.00401	0.00244
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	ug/l	<0.00185 U	<0.00185 U	<0.00185 U	<0.00185 U	<0.00179 U	<0.002 U	<0.00192 U	<0.00192 U	<0.00179 U	<0.00179 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	ug/l	<0.00185 U	<0.00185 U	<0.00185 U	<0.00185 U	<0.00179 U	<0.002 U	0.00613	0.00329	<0.00179 U	<0.00179 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	ug/l	<0.00185 U	<0.00185 U	<0.00185 U	<0.00185 U	<0.00179 U	<0.002 U	<0.00192 U	<0.00192 U	<0.00179 U	<0.00179 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	ug/l	<0.00185 U	0.00423	<0.00185 U	<0.00185 U	<0.00179 U	<0.002 U	0.00196	<0.00192 U	<0.00179 U	<0.00179 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	ug/l	0.00771	0.00473	0.00251	0.00321	0.00461	0.00358	0.0138	<0.00192 U	<0.00179 U	<0.00179 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	ug/l	0.0054	0.00649	0.00273	0.00248	0.00239	0.00297	0.00494	<0.00192 U	<0.00179 U	<0.00179 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	ug/l	0.00838	0.00505	0.00498	0.00373	0.00462 J	0.00733	0.0344	0.00457	0.00264	0.00187
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	ug/l	0.00387	0.0103	0.00301	0.00266	0.00296	0.00244	0.00992	0.00232	<0.00179 U	<0.00179 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	ug/l	<0.00185 UJ	<0.00185 UJ	0.00194 J	<0.00185 UJ	<0.00179 U	<0.002 UJ	0.00279 J	<0.00192 UJ	<0.00179 U	<0.00179 UJ
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	NS	0.01	ug/l	0.0295	0.0926	0.0372	0.0526	0.0497	0.0794	0.101	0.11	0.0222	0.0474
Perfluorooctanoic Acid (PFOA)	335-67-1	NS	0.01	ug/l	0.0243	0.0226	0.0143	0.0112	0.0101	0.0102	0.0286	0.00443	0.00435	0.00408
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	ug/l	0.0103	0.00743	0.00535	0.00689	<0.00179 U	0.00993	0.0378	0.00849	0.00386	0.00285
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	ug/l	<0.00185 U	<0.00185 U	<0.00185 U	<0.00185 U	<0.00179 U	<0.002 U	<0.00192 U	<0.00192 U	<0.00179 U	<0.00179 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	ug/l	<0.00185 U	<0.00185 U	<0.00185 U	<0.00185 U	<0.00179 U	<0.002 U	<0.00192 U	<0.00192 U	<0.00179 U	<0.00179 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	ug/l	<0.00185 U	<0.00185 U	<0.00185 U	<0.00185 U	<0.00179 U	<0.002 U	<0.00192 U	<0.00192 U	<0.00179 U	<0.00179 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FTS)	39108-34-4	NS	NS	ug/l	<0.00185 U	<0.00185 U	<0.00185 U	<0.00185 U	<0.00179 U	<0.002 U	<0.00192 U	<0.00192 U	0.00512	<0.00179 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FTS)	27619-97-2	NS	NS	ug/l	<0.00463 U	<0.00463 U	<0.00463 U	<0.00463 U	<0.00446 UJ	<0.005 U	<0.00481 U	<0.00481 U	<0.00446 U	<0.00446 U

Notes provided on Page 5.
Concentrations above NYSDEC SGVs are bolded.
Concentrations above NYSDEC Guidance Values are shaded.

Table 5C
Remedial Investigation Report
Groundwater Sample Analytical Results - Block 1824 (G)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Notes:
CAS - Chemical Abstract Service
NS - No standard
ug/l - microgram per liter
NA - Not analyzed
RL - Reporting limit
<RL - Not detected

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").

Groundwater sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Part 375 Remedial Programs Guidelines for Sampling and Analysis of Per- and Polyfluoroalkyl Substances (PFAS) (January 2021) and the 1,4-Dioxane value reflects the drinking water maximum contaminant level (MCL) adopted by New York State for public water systems (July 2020). Pursuant to Part 375-1.7(f)(2), the NYSDEC will treat the MCL as relevant and appropriate and will consider this value in remedy selection.

The criteria comparison for dissolved total chromium is provided for reference. The promulgated SGVs shown is for hexavalent chromium.

Qualifiers:
B - The analyte was found in the associated analysis batch blank.
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
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.

Exceedance Summary:
10 - Result exceeds NYSDEC SGVs
10 - Result exceeds NYSDEC Guidance Values

Table 5D
Remedial Investigation Report
Groundwater Sample Analytical Results - Block 1823 (H)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC SGVs	NYSDEC Guidance Values	Location	H-MW101	H-MW102	H-MW103	H-MW104	H-MW105	H-MW106	H-MW107	H-MW108
				Sample Name	H-MW101_101421	H-MW102_101321	H-MW103_101321	H-MW104_101321	H-MW105_101321	H-MW106_101421	H-MW107_101321	H-MW108_101421
				Sample Date	10/14/2021	10/13/2021	10/13/2021	10/13/2021	10/13/2021	10/14/2021	10/13/2021	10/14/2021
				Unit	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds												
1,1,1,2-Tetrachloroethane	630-20-6	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,1,1-Trichloroethane	71-55-6	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,1,2,2-Tetrachloroethane	79-34-5	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	5	NS	ug/l	<0.2 U	<0.2 UJ	<0.2 U	<0.2 U	<0.2 UJ	<0.2 U	<0.2 UJ	<0.2 U
1,1,2-Trichloroethane	79-00-5	1	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,1-Dichloroethane	75-34-3	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,1-Dichloroethene	75-35-4	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,2,3-Trichlorobenzene	87-61-6	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,2,3-Trichloropropane	96-18-4	0.04	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,2,4-Trichlorobenzene	120-82-1	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,2,4-Trimethylbenzene	95-63-6	5	NS	ug/l	<0.2 U	0.26 J	0.86	0.73	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,2-Dibromo-3-Chloropropane	96-12-8	0.04	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.0006	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,2-Dichlorobenzene	95-50-1	3	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,2-Dichloroethane	107-06-2	0.6	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,2-Dichloropropane	78-87-5	1	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	5	NS	ug/l	<0.2 U	<0.2 U	0.34 J	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,3-Dichlorobenzene	541-73-1	3	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,4-Dichlorobenzene	106-46-7	3	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,4-Dioxane (P-Dioxane)	123-91-1	NS	1	ug/l	<40 U	<40 U	<40 U	<40 U	<40 U	<40 U	<40 U	<40 U
2-Hexanone (MBK)	591-78-6	50	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Acetone	67-64-1	50	NS	ug/l	1.59 J	<8.7 U	<4.49 U	<2 U	<2.11 U	<1 U	<1 U	1.12 J
Acrolein	107-02-8	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Acrylonitrile	107-13-1	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Benzene	71-43-2	1	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Bromochloromethane	74-97-5	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Bromodichloromethane	75-27-4	50	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Bromoform	75-25-2	50	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Bromomethane	74-83-9	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Carbon Disulfide	75-15-0	60	NS	ug/l	<0.2 U	<0.2 U	0.48 J	0.27 J	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Carbon Tetrachloride	56-23-5	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Chlorobenzene	108-90-7	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Chloroethane	75-00-3	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Chloroform	67-66-3	7	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Chloromethane	74-87-3	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Cis-1,2-Dichloroethene	156-59-2	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	0.32 J	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Cis-1,3-Dichloropropene	10061-01-5	0.4	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Cyclohexane	110-82-7	NS	NS	ug/l	<0.2 U	0.22 J	0.36 J	2.19	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Dibromochloromethane	124-48-1	50	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Dibromomethane	74-95-3	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Dichlorodifluoromethane	75-71-8	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Ethylbenzene	100-41-4	5	NS	ug/l	<0.2 U	<0.2 U	0.33 J	0.22 J	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Hexachlorobutadiene	87-68-3	0.5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Isopropylbenzene (Cumene)	98-82-8	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
M,P-Xylene	179601-23-1	5	NS	ug/l	<0.5 U	<0.5 U	0.99 J	0.81 J	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Methyl Acetate	79-20-9	NS	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	50	NS	ug/l	<0.2 U	<0.2 U	0.42 J	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	ug/l	<0.2 U	1.98	0.46 J	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Methylcyclohexane	108-87-2	NS	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	2.58	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Methylene Chloride	75-09-2	5	NS	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U
n-Butylbenzene	104-51-8	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
n-Propylbenzene	103-65-1	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	5	NS	ug/l	<0.2 U	<0.2 U	0.91	0.5	<0.2 U	<0.2 U	<0.2 U	<0.2 U
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Sec-Butylbenzene	135-98-8	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	0.41 J	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Styrene	100-42-5	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
T-Butylbenzene	98-06-6	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	0.45 J	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Tert-Butyl Alcohol	75-65-0	NS	NS	ug/l	1.12 J	<0.5 UJ	<0.5 UJ	<0.5 UJ	<0.5 UJ	<0.5 UJ	0.5 J	<0.5 UJ
Tert-Butyl Methyl Ether	1634-04-4	10	NS	ug/l	7.2	2.34	1.67	3.38	2.18	1.3	2.96	0.72
Tetrachloroethene (PCE)	127-18-4	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Toluene	108-88-3	**5**	NS	ug/l	<0.2 U	0.93	**8.01**	0.4 J	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Total Xylenes	1330-20-7	5	NS	ug/l	<0.6 U	<0.6 U	1.9	1.31 J	<0.6 U	<0.6 U	<0.6 U	<0.6 U
Trans-1,2-Dichloroethene	156-60-5	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Trans-1,3-Dichloropropene	10061-02-6	0.4	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Trichloroethene (TCE)	79-01-6	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Trichlorofluoromethane	75-69-4	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Vinyl Chloride	75-01-4	2	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U

Notes provided on Page 5.
Concentrations above NYSDEC SGVs are bolded.
Concentrations above NYSDEC Guidance Values are shaded.

Table 5D
Remedial Investigation Report
Groundwater Sample Analytical Results - Block 1823 (H)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC SGVs	NYSDEC Guidance Values	Location	H-MW101	H-MW102	H-MW103	H-MW104	H-MW105	H-MW106	H-MW107	H-MW108
				Sample Name	H-MW101_101421	H-MW102_101321	H-MW103_101321	H-MW104_101321	H-MW105_101321	H-MW106_101421	H-MW107_101321	H-MW108_101421
				Sample Date	10/14/2021	10/13/2021	10/13/2021	10/13/2021	10/13/2021	10/14/2021	10/13/2021	10/14/2021
				Unit	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds												
1,2,4,5-Tetrachlorobenzene	95-94-3	5	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
1,2-Diphenylhydrazine	122-66-7	0	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
1,4-Dioxane (P-Dioxane)	123-91-1	NS	1	ug/l	<0.3 U	0.576	<0.3 U	<0.3 U	<0.3 U	<0.3 U	<0.3 U	<0.3 U
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	ug/l	<2.78 U	<2.7 UJ	<2.56 UJ	<2.7 UJ	<2.78 UJ	<2.5 U	<2.5 UJ	<2.5 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
2,4-Dichlorophenol	120-83-2	1	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
2,4-Dimethylphenol	105-67-9	1	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
2,4-Dinitrophenol	51-28-5	1	NS	ug/l	<2.78 U	<2.7 UJ	<2.56 UJ	<2.7 UJ	<2.78 UJ	<2.5 U	<2.5 UJ	<2.5 U
2,4-Dinitrotoluene	121-14-2	5	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
2,6-Dinitrotoluene	606-20-2	5	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
2-Chloronaphthalene	91-58-7	10	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
2-Chlorophenol	95-57-8	NS	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
2-Methylnaphthalene	91-57-6	NS	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
2-Methylphenol (o-Cresol)	95-48-7	NS	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
2-Nitroaniline	88-74-4	5	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
2-Nitrophenol	88-75-5	NS	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	NS	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
3,3'-Dichlorobenzidine	91-94-1	5	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
3-Nitroaniline	99-09-2	5	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
4-Chloroaniline	106-47-8	5	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
4-Nitroaniline	100-01-6	5	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
4-Nitrophenol	100-02-7	NS	NS	ug/l	<5.56 U	<5.41 UJ	<5.13 UJ	<5.41 UJ	<5.56 UJ	<5 U	<5 UJ	<5 U
Acenaphthene	83-32-9	20	NS	ug/l	<0.0556 U	2.81	0.113	0.53	<0.0556 U	0.05	<0.05 U	<0.05 U
Acenaphthylene	208-96-8	NS	NS	ug/l	<0.0556 U	<0.0541 U	<0.0513 U	0.0973	<0.0556 U	<0.05 U	<0.05 U	<0.05 U
Acetophenone	98-86-2	NS	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	5	NS	ug/l	<2.78 U	<2.7 UJ	<2.56 UJ	<2.7 UJ	<2.78 UJ	<2.5 U	<2.5 UJ	<2.5 U
Anthracene	120-12-7	50	NS	ug/l	<0.0556 U	0.0973	0.0923	<0.0541 U	<0.0556 U	0.05	<0.05 U	<0.05 U
Atrazine	1912-24-9	7.5	NS	ug/l	<0.556 U	<0.541 U	<0.513 U	<0.541 U	<0.556 U	<0.5 U	<0.5 U	<0.5 U
Benzaldehyde	100-52-7	NS	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
Benzidine	92-87-5	5	NS	ug/l	<5.56 U	<5.41 U	<5.13 U	<5.41 U	<5.56 U	<5 U	<5 U	<5 U
Benzo(a)anthracene	56-55-3	**0.002**	NS	ug/l	<0.0556 U	**0.0541**	<0.0513 U	<0.0541 U	<0.0556 U	<0.05 U	<0.05 U	<0.05 U
Benzo(a)pyrene	50-32-8	0	NS	ug/l	<0.0556 U	<0.0541 U	<0.0513 U	<0.0541 U	<0.0556 U	<0.05 U	<0.05 U	<0.05 U
Benzo(b)fluoranthene	205-99-2	0.002	NS	ug/l	<0.0556 U	<0.0541 U	<0.0513 U	<0.0541 U	<0.0556 U	<0.05 U	<0.05 U	<0.05 U
Benzo(g,h,i)Perylene	191-24-2	NS	NS	ug/l	<0.0556 U	<0.0541 U	<0.0513 U	<0.0541 U	<0.0556 U	<0.05 U	<0.05 U	<0.05 U
Benzo(k)fluoranthene	207-08-9	0.002	NS	ug/l	<0.0556 U	<0.0541 U	<0.0513 U	<0.0541 U	<0.0556 U	<0.05 U	<0.05 U	<0.05 U
Benzoic Acid	65-85-0	NS	NS	ug/l	<2.78 U	<2.7 UJ	8.53 J	<2.7 UJ	<2.78 UJ	<2.5 U	<2.5 UJ	<2.5 U
Benzyl Alcohol	100-51-6	NS	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
Benzyl Butyl Phthalate	85-68-7	50	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
Biphenyl (Diphenyl)	92-52-4	5	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
Bis(2-chloroethoxy) methane	111-91-1	5	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	1	NS	ug/l	<1.11 U	<1.08 U	<1.03 U	<1.08 U	<1.11 U	<1 U	<1 U	<1 U
Bis(2-chloroisopropyl) ether	108-60-1	5	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
Bis(2-ethylhexyl) phthalate	117-81-7	5	NS	ug/l	<0.556 U	<0.649 U	<0.646 U	<0.703 U	<0.567 U	<0.57 U	<0.5 U	<0.5 U
Caprolactam	105-60-2	NS	NS	ug/l	<2.78 U	<2.7 UJ	<2.56 UJ	<2.7 UJ	<2.78 UJ	<2.5 U	<2.5 UJ	<2.5 U
Carbazole	86-74-8	NS	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
Chrysene	218-01-9	0.002	NS	ug/l	<0.0556 U	<0.0541 U	<0.0513 U	<0.0541 U	<0.0556 U	<0.05 U	<0.05 U	<0.05 U
Dibenz(a,h)anthracene	53-70-3	NS	NS	ug/l	<0.0556 U	<0.0541 U	<0.0513 U	<0.0541 U	<0.0556 U	<0.05 U	<0.05 U	<0.05 U
Dibenzofuran	132-64-9	NS	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
Dibutyl phthalate	84-74-2	50	NS	ug/l	<2.78 U	<2.7 UJ	<2.56 UJ	<2.7 UJ	<2.78 UJ	<2.5 U	<2.5 UJ	<2.5 U
Diethyl phthalate	84-66-2	50	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
Dimethyl phthalate	131-11-3	50	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
Dioctyl phthalate	117-84-0	50	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
Diphenylamine	122-39-4	5	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
Fluoranthene	206-44-0	50	NS	ug/l	<0.0556 U	0.151	0.0821	0.0649	<0.0556 U	0.07	<0.05 U	<0.05 U
Fluorene	86-73-7	50	NS	ug/l	<0.0556 U	0.205	0.0718	0.562	0.322	<0.05 U	<0.05 U	<0.05 U
Hexachlorobenzene	118-74-1	0.04	NS	ug/l	<0.0222 U	<0.0216 U	<0.0205 U	<0.0216 U	<0.0222 U	<0.02 U	<0.02 U	<0.02 U
Hexachlorobutadiene	87-68-3	0.5	NS	ug/l	<0.556 U	<0.541 U	<0.513 U	<0.541 U	<0.556 U	<0.5 U	<0.5 U	<0.5 U
Hexachlorocyclopentadiene	77-47-4	5	NS	ug/l	<5.56 U	<5.41 U	<5.13 U	<5.41 U	<5.56 U	<5 U	<5 U	<5 U
Hexachloroethane	67-72-1	5	NS	ug/l	<0.556 U	<0.541 U	<0.513 U	<0.541 U	<0.556 U	<0.5 U	<0.5 U	<0.5 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	NS	ug/l	<0.0556 U	<0.0541 U	<0.0513 U	<0.0541 U	<0.0556 U	<0.05 U	<0.05 U	<0.05 U
Isophorone	78-59-1	50	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
Naphthalene	91-20-3	10	NS	ug/l	<0.0556 U	0.843	0.482	0.357	<0.0556 U	0.06	<0.05 U	<0.05 U
Nitrobenzene	98-95-3	0.4	NS	ug/l	<0.278 U	<0.27 U	<0.256 U	<0.27 U	<0.278 U	<0.25 U	<0.25 U	<0.25 U
n-Nitrosodimethylamine	62-75-9	NS	NS	ug/l	<0.556 U	<0.541 UJ	<0.513 UJ	<0.541 UJ	<0.556 UJ	<0.5 U	<0.5 UJ	<0.5 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
n-Nitrosodiphenylamine	86-30-6	50	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
Pentachlorophenol	87-86-5	1	NS	ug/l	<0.278 U	<0.27 U	<0.256 U	<0.27 U	<0.278 U	<0.25 U	<0.25 U	<0.25 U
Phenanthrene	85-01-8	50	NS	ug/l	<0.0556 U	0.238	0.39	0.562	<0.0556 U	0.12	<0.05 U	<0.05 U
Phenol	108-95-2	1	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U
Pyrene	129-00-0	50	NS	ug/l	<0.0556 U	0.108	0.0718	<0.0541 U	<0.0556 U	0.12	<0.05 U	<0.05 U
Pyridine	110-86-1	50	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.7 U	<2.78 U	<2.5 U	<2.5 U	<2.5 U

Notes provided on Page 5.
Concentrations above NYSDEC SGVs are bolded.
Concentrations above NYSDEC Guidance Values are shaded.

Table 5D
Remedial Investigation Report
Groundwater Sample Analytical Results - Block 1823 (H)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC SGVs	NYSDEC Guidance Values	Location	H-MW101	H-MW102	H-MW103	H-MW104	H-MW105	H-MW106	H-MW107	H-MW108
				Sample Name	H-MW101_101421	H-MW102_101321	H-MW103_101321	H-MW104_101321	H-MW105_101321	H-MW106_101421	H-MW107_101321	H-MW108_101421
				Sample Date	10/14/2021	10/13/2021	10/13/2021	10/13/2021	10/13/2021	10/14/2021	10/13/2021	10/14/2021
				Unit	Result	Result	Result	Result	Result	Result	Result	Result
Pesticides												
4,4'-DDD	72-54-8	0.3	NS	ug/l	<0.00421 U	<0.00432 U	<0.00421 U	<0.00444 U	<0.00421 U	<0.0041 U	<0.0041 U	<0.00432 U
4,4'-DDE	72-55-9	0.2	NS	ug/l	<0.00421 U	<0.00432 U	<0.00421 U	<0.00444 U	<0.00421 U	<0.0041 U	<0.0041 U	<0.00432 U
4,4'-DDT	50-29-3	0.2	NS	ug/l	<0.00421 UJ	<0.00432 U	<0.00421 U	<0.00444 U	<0.00421 U	<0.0041 UJ	<0.0041 U	<0.00432 UJ
Aldrin	309-00-2	0	NS	ug/l	<0.00421 U	<0.00432 U	<0.00421 U	<0.00444 U	<0.00421 U	<0.0041 U	<0.0041 U	<0.00432 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.01	NS	ug/l	<0.00421 U	<0.00432 U	<0.00421 U	<0.00444 U	<0.00421 U	<0.0041 U	<0.0041 U	<0.00432 U
Alpha Chlordane	5103-71-9	NS	NS	ug/l	<0.00421 U	<0.00432 U	<0.00421 U	<0.00444 U	<0.00421 U	<0.0041 U	<0.0041 U	<0.00432 U
Alpha Endosulfan	959-98-8	NS	NS	ug/l	<0.00421 U	<0.00432 U	<0.00421 U	<0.00444 U	<0.00421 U	<0.0041 U	<0.0041 U	<0.00432 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.04	NS	ug/l	<0.00421 U	<0.00432 U	<0.00421 U	<0.00444 U	<0.00421 U	<0.0041 U	<0.0041 U	<0.00432 U
Beta Endosulfan	33213-65-9	NS	NS	ug/l	<0.00421 U	<0.00432 U	<0.00421 U	<0.00444 U	<0.00421 U	<0.0041 U	<0.0041 U	<0.00432 U
Chlordane (alpha and gamma)	57-74-9	0.05	NS	ug/l	<0.211 U	<0.216 U	<0.211 U	<0.222 U	<0.211 U	<0.205 U	<0.205 U	<0.216 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	NS	ug/l	<0.00421 U	<0.00432 U	<0.00421 U	<0.00444 U	<0.00421 U	<0.0041 U	<0.0041 U	<0.00432 U
Dieldrin	60-57-1	0.004	NS	ug/l	<0.00211 U	<0.00216 U	<0.00211 U	<0.00222 U	<0.00211 U	<0.00205 U	<0.00205 U	<0.00216 U
Endosulfan Sulfate	1031-07-8	NS	NS	ug/l	<0.00421 UJ	<0.00432 U	<0.00421 U	<0.00444 U	<0.00421 U	<0.0041 UJ	<0.0041 U	<0.00432 UJ
Endrin	72-20-8	0	NS	ug/l	<0.00421 U	<0.00432 U	<0.00421 U	<0.00444 U	<0.00421 U	<0.0041 U	<0.0041 U	<0.00432 U
Endrin Aldehyde	7421-93-4	5	NS	ug/l	<0.0105 UJ	<0.0108 U	<0.0105 U	<0.0111 U	<0.0105 U	<0.0103 UJ	<0.0103 U	<0.0108 UJ
Endrin Ketone	53494-70-5	5	NS	ug/l	<0.0105 U	<0.0108 U	<0.0105 U	<0.0111 U	<0.0105 U	<0.0103 U	<0.0103 U	<0.0108 U
Gamma Bhc (Lindane)	58-89-9	0.05	NS	ug/l	<0.00421 U	<0.00432 U	<0.00421 U	<0.00444 U	<0.00421 U	<0.0041 U	<0.0041 U	<0.00432 U
Gamma-Chlordane	5566-34-7	NS	NS	ug/l	<0.0105 U	<0.0108 U	<0.0105 U	<0.0111 U	<0.0105 U	<0.0103 U	<0.0103 U	<0.0108 U
Heptachlor	76-44-8	0.04	NS	ug/l	<0.00421 U	<0.00432 U	<0.00421 U	<0.00444 U	<0.00421 U	<0.0041 U	<0.0041 U	<0.00432 U
Heptachlor Epoxide	1024-57-3	0.03	NS	ug/l	<0.00421 U	<0.00432 U	<0.00421 U	<0.00444 U	<0.00421 U	<0.0041 U	<0.0041 U	<0.00432 U
Methoxychlor	72-43-5	35	NS	ug/l	<0.00421 U	<0.00432 U	<0.00421 U	<0.00444 U	<0.00421 U	<0.0041 U	<0.0041 U	<0.00432 U
Toxaphene	8001-35-2	0.06	NS	ug/l	<0.105 U	<0.108 U	<0.105 U	<0.111 U	<0.105 U	<0.103 U	<0.103 U	<0.108 U
Polychlorinated Biphenyl												
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	ug/l	<0.0526 U	<0.0541 U	<0.0526 U	<0.0556 U	<0.0526 U	<0.0513 U	<0.0513 U	<0.0541 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	ug/l	<0.0526 U	<0.0541 U	<0.0526 U	<0.0556 U	<0.0526 U	<0.0513 U	<0.0513 U	<0.0541 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	ug/l	<0.0526 U	<0.0541 U	<0.0526 U	<0.0556 U	<0.0526 U	<0.0513 U	<0.0513 U	<0.0541 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	ug/l	<0.0526 U	<0.0541 U	<0.0526 U	<0.0556 U	<0.0526 U	<0.0513 U	<0.0513 U	<0.0541 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	ug/l	<0.0526 U	<0.0541 U	<0.0526 U	<0.0556 U	<0.0526 U	<0.0513 U	<0.0513 U	<0.0541 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	ug/l	<0.0526 U	<0.0541 U	<0.0526 U	<0.0556 U	<0.0526 U	<0.0513 U	<0.0513 U	<0.0541 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	ug/l	<0.0526 U	<0.0541 U	<0.0526 U	<0.0556 U	<0.0526 U	<0.0513 U	<0.0513 U	<0.0541 U
Total PCBs	1336-36-3	0.09	NS	ug/l	<0.0526 U	<0.0541 U	<0.0526 U	<0.0556 U	<0.0526 U	<0.0513 U	<0.0513 U	<0.0541 U
Metals - Dissolved												
Aluminum	7429-90-5	NS	NS	ug/l	157 J	<509 U	<59.3 U	<78.5 U	<143 U	534 J	<338 U	132 J
Antimony	7440-36-0	3	NS	ug/l	<1.43 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.25 U	<1.11 U	<1.43 U
Arsenic	7440-38-2	**25**	NS	ug/l	**126**	5.76	5.48	5.16	1.57	4.24 J	23.4	<1.43 U
Barium	7440-39-3	1000	NS	ug/l	612	375	348	773	559	220	202	433
Beryllium	7440-41-7	3	NS	ug/l	<0.429 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.375 U	<0.333 U	<0.429 U
Cadmium	7440-43-9	5	NS	ug/l	<0.714 UJ	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.625 UJ	<0.556 U	<0.714 UJ
Calcium	7440-70-2	NS	NS	ug/l	116,000 B	113,000	87,800 B	112,000 B	123,000 B	169,000 B	187,000 B	111,000 B
Chromium, Total	7440-47-3	50	NS	ug/l	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U
Cobalt	7440-48-4	NS	NS	ug/l	<4.44 U	<4.44 U	<4.44 U	<4.44 U	<4.44 U	<4.44 U	7.23	<4.44 U
Copper	7440-50-8	200	NS	ug/l	<22.2 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U
Iron	7439-89-6	**300**	NS	ug/l	**33,600**	**38,300**	**15,900**	**12,400**	**12,400**	**4,860**	**7,980**	**7,740**
Lead	7439-92-1	**25**	NS	ug/l	8.55	22.5	7.2	<5.56 U	6.65	18.4	**29**	<5.56 U
Magnesium	7439-95-4	35000	NS	ug/l	13,800	13,000	7,570	12,300	15,300	8,660	12,800	8,620
Manganese	7439-96-5	**300**	NS	ug/l	**761**	**583**	217	**366**	**809**	**1,020**	**2,220**	**2,620**
Mercury	7439-97-6	0.7	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Nickel	7440-02-0	100	NS	ug/l	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U
Potassium	7440-09-7	NS	NS	ug/l	16,700 B	23,700	15,600 B	15,900 B	15,200 B	10,600 B	16,300 B	9,350 B
Selenium	7782-49-2	10	NS	ug/l	<1.43 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.25 U	<1.11 U	<1.43 U
Silver	7440-22-4	50	NS	ug/l	<5.56 U	<5.56 U	<5.56 UJ	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U
Sodium	7440-23-5	**20000**	NS	ug/l	**52,200 B**	**67,600**	**47,200 B**	**58,300 B**	**103,000 B**	<12,600 U	**70,100 B**	**68,600 B**
Thallium	7440-28-0	0.5	NS	ug/l	<1.43 UJ	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.25 UJ	<1.11 U	<1.43 UJ
Vanadium	7440-62-2	NS	NS	ug/l	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U
Zinc	7440-66-6	2000	NS	ug/l	31	<27.8 U	<27.8 U	<27.8 U	<27.8 U	<27.8 U	45	<27.8 U
Metals - Total												
Aluminum	7429-90-5	NS	NS	ug/l	68.9	152	374	57.6	336	140	158	89.6
Antimony	7440-36-0	3	NS	ug/l	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U
Arsenic	7440-38-2	**25**	NS	ug/l	**73.2**	6.02	13.6	6.03	3.89	<1.11 U	**36.6**	5.88
Barium	7440-39-3	1000	NS	ug/l	496	347	383	802	569	203	198	408
Beryllium	7440-41-7	3	NS	ug/l	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U
Cadmium	7440-43-9	5	NS	ug/l	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.556 U
Calcium	7440-70-2	NS	NS	ug/l	114,000	105,000 B	89,200 B	113,000 B	126,000 B	163,000	190,000 B	108,000
Chromium, Hexavalent	18540-29-9	50	NS	ug/l	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U
Chromium, Total	7440-47-3	NS	NS	ug/l	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U
Chromium, Trivalent	16065-83-1	NS	NS	ug/l	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U
Cobalt	7440-48-4	NS	NS	ug/l	<4.44 U	<4.44 U	<4.44 U	<4.44 U	<4.44 U	<4.44 U	7.45	<4.44 U
Copper	7440-50-8	200	NS	ug/l	<22.2 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U
Cyanide	57-12-5	200	NS	ug/l	<10 U	<10 U	<10 U	<10 U	<10 U	10.8	<10 U	<10 U
Iron	7439-89-6	**300**	NS	ug/l	**16,000**	**30,700 J**	**21,400 J**	**13,800 J**	**12,400 J**	**3,360**	<7,530 U	**4,880**
Lead	7439-92-1	25	NS	ug/l	<5.56 U	19.2	7.51	<5.56 U	<5.56 U	9.53	18.2	<5.56 U
Magnesium	7439-95-4	35000	NS	ug/l	13,200	11,400	8,380	12,500	15,700	8,340	11,800	8,720
Manganese	7439-96-5	**300**	NS	ug/l	**719**	**540**	232	**366**	**828**	**988**	**2,290**	**2,630**
Mercury	7439-97-6	0.7	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Nickel	7440-02-0	100	NS	ug/l	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U
Potassium	7440-09-7	NS	NS	ug/l	16,500 B	21,200 B	15,000 B	16,100 B	16,100 B	10,300 B	16,300 B	8,720 B
Selenium	7782-49-2	10	NS	ug/l	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U
Silver	7440-22-4	50	NS	ug/l	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U
Sodium	7440-23-5	**20000**	NS	ug/l	**47,300**	**55,600 J**	**51,100 J**	**59,900 J**	**107,000 J**	11,900	**66,800 J**	**67,300**
Thallium	7440-28-0	0.5	NS	ug/l	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U
Vanadium	7440-62-2	NS	NS	ug/l	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U
Zinc	7440-66-6	2000	NS	ug/l	<27.8 U	29.1	<27.8 U	<27.8 U	<27.8 U	<27.8 U	51.9	<27.8 U

Notes provided on Page 5.
Concentrations above NYSDEC SGVs are bolded.
Concentrations above NYSDEC Guidance Values are shaded.

Table 5D
Remedial Investigation Report
Groundwater Sample Analytical Results - Block 1823 (H)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC SGVs	NYSDEC Guidance Values	Location	H-MW101	H-MW102	H-MW103	H-MW104	H-MW105	H-MW106	H-MW107	H-MW108
				Sample Name	H-MW101_101421	H-MW102_101321	H-MW103_101321	H-MW104_101321	H-MW105_101321	H-MW106_101421	H-MW107_101321	H-MW108_101421
				Sample Date	10/14/2021	10/13/2021	10/13/2021	10/13/2021	10/13/2021	10/14/2021	10/13/2021	10/14/2021
				Unit	Result	Result	Result	Result	Result	Result	Result	Result
Perfluorooctanoic acids												
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	NS	ug/l	0.00546	<0.00185 U	<0.00185 U	<0.00179 U	<0.00185 U	<0.00185 U	0.00966 J	<0.00179 U
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOSAA	2355-31-9	NS	NS	ug/l	<0.00179 U	<0.00185 U	<0.00185 U	<0.00179 U	<0.00185 U	<0.00185 U	<0.00172 UJ	<0.00179 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	ug/l	<0.00685 U	0.0134	0.0105	0.00684	0.00359	0.00718 J	0.00792	<0.00188 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	ug/l	0.0252	0.0162	0.0236	0.0141	0.0108	<0.00746 U	0.00863	<0.00804 U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	ug/l	<0.00179 U	<0.00185 U	<0.00185 U	<0.00179 U	<0.00185 U	<0.00185 U	<0.00172 U	<0.00179 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	ug/l	0.00441	0.00309	0.00238	<0.00179 U	<0.00185 U	<0.00185 U	<0.00172 UJ	<0.00179 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	ug/l	<0.00179 U	<0.00185 U	<0.00185 U	<0.00179 U	<0.00185 U	<0.00185 U	0.00283 J	<0.00179 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	ug/l	<0.00179 U	0.00282	<0.00185 U	<0.00179 U	<0.00185 U	<0.00185 U	0.00379	<0.00179 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	ug/l	0.0143	0.0238	0.0156	0.0109	0.00617	0.00893	0.00559	<0.0024 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	ug/l	0.00597 J	0.0139	0.00886	0.00646	0.00381	0.00778	0.0068 J	<0.00179 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	ug/l	0.0188	0.0221	0.0218	0.0115	0.00803	0.0107 J	0.0046	<0.00658 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	ug/l	0.00587	0.00665	0.00743	0.00421	0.00204	0.00462	<0.00172 UJ	<0.00179 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	ug/l	<0.00179 UJ	<0.00185 UJ	<0.00185 UJ	<0.00179 UJ	<0.00185 UJ	<0.00185 UJ	0.0118 J	<0.00179 UJ
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	NS	0.01	ug/l	0.106	0.129	0.153	0.054	0.0164	0.0399	0.00474 J	0.00553 J
Perfluorooctanoic Acid (PFOA)	335-67-1	NS	0.01	ug/l	0.029	0.0235	0.0173	0.0149	0.0129	0.0258	0.0195 J	0.00543 J
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	ug/l	0.0196 J	0.0342	0.0416	0.0144	0.00803	0.0164 J	0.00624	0.0123 J
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	ug/l	<0.00179 U	<0.00185 U	<0.00185 U	<0.00179 U	<0.00185 U	<0.00185 U	0.00439 J	<0.00179 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	ug/l	<0.00179 U	<0.00185 U	<0.00185 U	<0.00179 U	<0.00185 U	<0.00185 U	0.00308	<0.00179 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	ug/l	<0.00179 U	<0.00185 U	<0.00185 U	<0.00179 U	<0.00185 U	<0.00185 U	0.00271 J	<0.00179 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FTS)	39108-34-4	NS	NS	ug/l	<0.00179 U	0.00227	<0.00185 U	<0.00179 U	<0.00185 U	<0.00185 U	<0.00172 UJ	<0.00179 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FTS)	27619-97-2	NS	NS	ug/l	<0.00446 U	<0.00463 U	<0.00463 U	<0.00446 U	<0.00463 U	<0.00463 U	<0.00431 U	<0.00446 U

Notes provided on Page 5.
Concentrations above NYSDEC SGVs are bolded.
Concentrations above NYSDEC Guidance Values are shaded.

Table 5D
Remedial Investigation Report
Groundwater Sample Analytical Results - Block 1823 (H)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Notes:
CAS - Chemical Abstract Service
NS - No standard
ug/l - microgram per liter
NA - Not analyzed
RL - Reporting limit
<RL - Not detected
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").

Groundwater sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Part 375 Remedial Programs Guidelines for Sampling and Analysis of Per- and Polyfluoroalkyl Substances (PFAS) (January 2021) and the 1,4-Dioxane value reflects the drinking water maximum contaminant level (MCL) adopted by New York State for public water systems (July 2020). Pursuant to Part 375-1.7(f)(2), the NYSDEC will treat the MCL as relevant and appropriate and will consider this value in remedy selection.

The criteria comparison for dissolved total chromium is provided for reference. The promulgated SGVs shown is for hexavalent chromium.

Qualifiers:
B - The analyte was found in the associated analysis batch blank.
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
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.

Exceedance Summary:
10 - Result exceeds NYSDEC SGVs
10 - Result exceeds NYSDEC Guidance Values

Table 5E
Remedial Investigation Report
Groundwater Sample Analytical Results - Block 1822 (I)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC SGVs	NYSDEC Guidance Values	Location	I-MW101	I-MW102	I-MW103	I-MW104	I-MW105
				Sample Name	I-MW101_101121	I-MW102_101121	I-MW103_101121	I-MW104_101121	I-MW105_101121
				Sample Date	10/11/2021	10/11/2021	10/11/2021	10/11/2021	10/11/2021
				Unit	Result	Result	Result	Result	Result
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	630-20-6	5	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,1,1-Trichloroethane	71-55-6	5	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,1,2,2-Tetrachloroethane	79-34-5	5	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	5	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,1,2-Trichloroethane	79-00-5	1	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,1-Dichloroethane	75-34-3	5	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,1-Dichloroethene	75-35-4	5	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,2,3-Trichlorobenzene	87-61-6	5	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,2,3-Trichloropropane	96-18-4	0.04	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,2,4-Trichlorobenzene	120-82-1	5	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,2,4-Trimethylbenzene	95-63-6	**5**	NS	ug/l	**12.6 D**	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,2-Dibromo-3-Chloropropane	96-12-8	0.04	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.0006	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,2-Dichlorobenzene	95-50-1	3	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,2-Dichloroethane	107-06-2	0.6	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,2-Dichloropropane	78-87-5	1	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	5	NS	ug/l	4.7 D	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,3-Dichlorobenzene	541-73-1	3	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,4-Dichlorobenzene	106-46-7	3	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,4-Dioxane (P-Dioxane)	123-91-1	NS	1	ug/l	<80 UJ	<40 U	<40 U	<40 U	<40 U
2-Hexanone (MBK)	591-78-6	50	NS	ug/l	<0.4 U	<0.2 UJ	<0.2 UJ	<0.2 UJ	<0.2 UJ
Acetone	67-64-1	50	NS	ug/l	18.2 D	4.37	26	2.73	3.07
Acrolein	107-02-8	5	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Acrylonitrile	107-13-1	5	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Benzene	71-43-2	**1**	NS	ug/l	**98.4 D**	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Bromochloromethane	74-97-5	5	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Bromodichloromethane	75-27-4	50	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Bromoform	75-25-2	50	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Bromomethane	74-83-9	5	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Carbon Disulfide	75-15-0	60	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Carbon Tetrachloride	56-23-5	5	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Chlorobenzene	108-90-7	5	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Chloroethane	75-00-3	5	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Chloroform	67-66-3	7	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Chloromethane	74-87-3	5	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Cis-1,2-Dichloroethene	156-59-2	5	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Cis-1,3-Dichloropropene	10061-01-5	0.4	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Cyclohexane	110-82-7	NS	NS	ug/l	27.3 D	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Dibromochloromethane	124-48-1	50	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Dibromomethane	74-95-3	5	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Dichlorodifluoromethane	75-71-8	5	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Ethylbenzene	100-41-4	**5**	NS	ug/l	**8 D**	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Hexachlorobutadiene	87-68-3	0.5	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Isopropylbenzene (Cumene)	98-82-8	**5**	NS	ug/l	**62 D**	<0.2 U	<0.2 U	<0.2 U	<0.2 U
M,P-Xylene	179601-23-1	**5**	NS	ug/l	**45 D**	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Methyl Acetate	79-20-9	NS	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	50	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Methylcyclohexane	108-87-2	NS	NS	ug/l	45.4 D	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Methylene Chloride	75-09-2	5	NS	ug/l	<2 U	<1 U	<1 U	<1 U	<1 U
n-Butylbenzene	104-51-8	**5**	NS	ug/l	**13.1 J**	<0.2 U	<0.2 U	<0.2 U	<0.2 U
n-Propylbenzene	103-65-1	**5**	NS	ug/l	**151 D**	<0.2 U	<0.2 U	<0.2 U	<0.2 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	**5**	NS	ug/l	**12 D**	<0.2 U	<0.2 U	<0.2 U	<0.2 U
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	ug/l	16.8 D	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Sec-Butylbenzene	135-98-8	**5**	NS	ug/l	**8.78 D**	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Styrene	100-42-5	5	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
T-Butylbenzene	98-06-6	5	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Tert-Butyl Alcohol	75-65-0	NS	NS	ug/l	<1 UJ	<0.5 UJ	4.41 J	<0.5 UJ	3.98 J
Tert-Butyl Methyl Ether	1634-04-4	**10**	NS	ug/l	**10.1 D**	<0.2 UJ	8.62 J	<0.2 UJ	2.82 J
Tetrachloroethene (PCE)	127-18-4	5	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Toluene	108-88-3	**5**	NS	ug/l	**14 D**	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Total Xylenes	1330-20-7	**5**	NS	ug/l	**57 D**	<0.6 U	<0.6 U	<0.6 U	<0.6 U
Trans-1,2-Dichloroethene	156-60-5	5	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Trans-1,3-Dichloropropene	10061-02-6	0.4	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Trichloroethene (TCE)	79-01-6	5	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Trichlorofluoromethane	75-69-4	5	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Vinyl Chloride	75-01-4	2	NS	ug/l	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U

Notes provided on Page 5.
Concentrations above NYSDEC SGVs are bolded.
Concentrations above NYSDEC Guidance Values are shaded.

Table 5E
Remedial Investigation Report
Groundwater Sample Analytical Results - Block 1822 (I)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC SGVs	NYSDEC Guidance Values	Location	I-MW101	I-MW102	I-MW103	I-MW104	I-MW105
				Sample Name	I-MW101_101121	I-MW102_101121	I-MW103_101121	I-MW104_101121	I-MW105_101121
				Sample Date	10/11/2021	10/11/2021	10/11/2021	10/11/2021	10/11/2021
				Unit	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds									
1,2,4,5-Tetrachlorobenzene	95-94-3	5	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.56 UJ	<2.5 UJ
1,2-Diphenylhydrazine	122-66-7	0	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.56 UJ	<2.5 UJ
1,4-Dioxane (P-Dioxane)	123-91-1	NS	1	ug/l	<0.3 U	<0.3 U	<0.3 U	<0.3 UJ	1.6 J
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	ug/l	<2.78 UJ	<2.7 U	<2.56 U	<2.56 UJ	<2.5 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	ug/l	<2.78 UJ	<2.7 U	<2.56 U	<2.56 UJ	<2.5 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	ug/l	<2.78 UJ	<2.7 U	<2.56 U	<2.56 UJ	<2.5 U
2,4-Dichlorophenol	120-83-2	1	NS	ug/l	<2.78 UJ	<2.7 U	<2.56 U	<2.56 UJ	<2.5 U
2,4-Dimethylphenol	105-67-9	1	NS	ug/l	<2.78 UJ	<2.7 U	<2.56 U	<2.56 UJ	<2.5 U
2,4-Dinitrophenol	51-28-5	1	NS	ug/l	<2.78 UJ	<2.7 U	<2.56 U	<2.56 UJ	<2.5 U
2,4-Dinitrotoluene	121-14-2	5	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.56 UJ	<2.5 UJ
2,6-Dinitrotoluene	606-20-2	5	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.56 UJ	<2.5 UJ
2-Chloronaphthalene	91-58-7	10	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.56 UJ	<2.5 UJ
2-Chlorophenol	95-57-8	NS	NS	ug/l	<2.78 UJ	<2.7 U	<2.56 U	<2.56 UJ	<2.5 U
2-Methylnaphthalene	91-57-6	NS	NS	ug/l	3.14 J	<2.7 U	<2.56 U	<2.56 UJ	<2.5 UJ
2-Methylphenol (o-Cresol)	95-48-7	NS	NS	ug/l	<2.78 UJ	<2.7 U	<2.56 U	<2.56 UJ	<2.5 U
2-Nitroaniline	88-74-4	5	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.56 UJ	<2.5 UJ
2-Nitrophenol	88-75-5	NS	NS	ug/l	<2.78 UJ	<2.7 U	<2.56 U	<2.56 UJ	<2.5 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	NS	NS	ug/l	<2.78 UJ	<2.7 U	<2.56 U	<2.56 UJ	<2.5 U
3,3'-Dichlorobenzidine	91-94-1	5	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.56 UJ	<2.5 UJ
3-Nitroaniline	99-09-2	5	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.56 UJ	<2.5 UJ
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	ug/l	<2.78 UJ	<2.7 U	<2.56 U	<2.56 UJ	<2.5 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.56 UJ	<2.5 UJ
4-Chloro-3-Methylphenol	59-50-7	NS	NS	ug/l	<2.78 UJ	<2.7 U	<2.56 U	<2.56 UJ	<2.5 U
4-Chloroaniline	106-47-8	5	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.56 UJ	<2.5 UJ
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.56 UJ	<2.5 UJ
4-Nitroaniline	100-01-6	5	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.56 UJ	<2.5 UJ
4-Nitrophenol	100-02-7	NS	NS	ug/l	<5.56 UJ	<5.41 U	<5.13 U	<5.13 UJ	<5 U
Acenaphthene	83-32-9	20	NS	ug/l	0.511	0.173	<0.0513 U	<0.0513 UJ	<0.05 UJ
Acenaphthylene	208-96-8	NS	NS	ug/l	<0.0556 U	<0.0541 U	<0.0513 U	<0.0513 UJ	<0.05 UJ
Acetophenone	98-86-2	NS	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.56 UJ	<2.5 UJ
Aniline (Phenylamine, Aminobenzene)	62-53-3	5	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.56 UJ	<2.5 UJ
Anthracene	120-12-7	50	NS	ug/l	<0.0556 U	<0.0541 U	<0.0513 U	<0.0513 UJ	<0.05 UJ
Atrazine	1912-24-9	7.5	NS	ug/l	<0.556 U	<0.541 U	<0.513 U	<0.513 UJ	<0.5 UJ
Benzaldehyde	100-52-7	NS	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.56 UJ	<2.5 UJ
Benzidine	92-87-5	5	NS	ug/l	<5.56 U	<5.41 U	<5.13 U	<5.13 UJ	<5 UJ
Benzo(a)anthracene	56-55-3	0.002	NS	ug/l	<0.0556 U	<0.0541 U	<0.0513 U	<0.0513 UJ	<0.05 UJ
Benzo(a)pyrene	50-32-8	0	NS	ug/l	<0.0556 U	<0.0541 U	<0.0513 U	<0.0513 UJ	<0.05 UJ
Benzo(b)fluoranthene	205-99-2	0.002	NS	ug/l	<0.0556 U	<0.0541 U	<0.0513 U	<0.0513 UJ	<0.05 UJ
Benzo(g,h,i)Perylene	191-24-2	NS	NS	ug/l	<0.0556 U	<0.0541 U	<0.0513 U	<0.0513 UJ	<0.05 UJ
Benzo(k)fluoranthene	207-08-9	0.002	NS	ug/l	<0.0556 U	<0.0541 U	<0.0513 U	<0.0513 UJ	<0.05 UJ
Benzoic Acid	65-85-0	NS	NS	ug/l	<2.78 UJ	<2.7 U	4.48 J	<2.56 UJ	<2.5 UJ
Benzyl Alcohol	100-51-6	NS	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.56 UJ	<2.5 UJ
Benzyl Butyl Phthalate	85-68-7	50	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.56 UJ	<2.5 UJ
Biphenyl (Diphenyl)	92-52-4	5	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.56 UJ	<2.5 UJ
Bis(2-chloroethoxy) methane	111-91-1	5	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.56 UJ	<2.5 UJ
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	1	NS	ug/l	<1.11 U	<1.08 U	<1.03 U	<1.03 UJ	<1 UJ
Bis(2-chloroisopropyl) ether	108-60-1	5	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.56 UJ	<2.5 UJ
Bis(2-ethylhexyl) phthalate	117-81-7	5	NS	ug/l	2.28 J	<1.04 U	0.667 B	<0.615 U	<0.6 U
Caprolactam	105-60-2	NS	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.56 UJ	<2.5 UJ
Carbazole	86-74-8	NS	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.56 UJ	<2.5 UJ
Chrysene	218-01-9	0.002	NS	ug/l	<0.0556 U	<0.0541 U	<0.0513 U	<0.0513 UJ	<0.05 UJ
Dibenz(a,h)anthracene	53-70-3	NS	NS	ug/l	<0.0556 U	<0.0541 U	<0.0513 U	<0.0513 UJ	<0.05 UJ
Dibenzofuran	132-64-9	NS	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.56 UJ	<2.5 UJ
Dibutyl phthalate	84-74-2	50	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.56 UJ	<2.5 UJ
Diethyl phthalate	84-66-2	50	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.56 UJ	<2.5 UJ
Dimethyl phthalate	131-11-3	50	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.56 UJ	<2.5 UJ
Dioctyl phthalate	117-84-0	50	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.56 UJ	<2.5 UJ
Diphenylamine	122-39-4	5	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.56 UJ	<2.5 UJ
Fluoranthene	206-44-0	50	NS	ug/l	0.156	<0.0541 U	<0.0513 U	<0.0513 UJ	<0.05 UJ
Fluorene	86-73-7	50	NS	ug/l	0.411 J	0.368 J	<0.0513 U	<0.277 U	<0.05 UJ
Hexachlorobenzene	118-74-1	0.04	NS	ug/l	<0.0222 U	<0.0216 U	<0.0205 U	<0.0205 UJ	<0.02 UJ
Hexachlorobutadiene	87-68-3	0.5	NS	ug/l	<0.556 U	<0.541 U	<0.513 U	<0.513 UJ	<0.5 UJ
Hexachlorocyclopentadiene	77-47-4	5	NS	ug/l	<5.56 U	<5.41 U	<5.13 U	<5.13 UJ	<5 UJ
Hexachloroethane	67-72-1	5	NS	ug/l	<0.556 U	<0.541 U	<0.513 U	<0.513 UJ	<0.5 UJ
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	NS	ug/l	<0.0556 U	<0.0541 U	<0.0513 U	<0.0513 UJ	<0.05 UJ
Isophorone	78-59-1	50	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.56 UJ	<2.5 UJ
Naphthalene	91-20-3	10	NS	ug/l	3.46	0.259	<0.0513 U	<0.0513 UJ	0.09 J
Nitrobenzene	98-95-3	0.4	NS	ug/l	<0.278 U	<0.27 U	<0.256 U	<0.256 UJ	<0.25 UJ
n-Nitrosodimethylamine	62-75-9	NS	NS	ug/l	<0.556 U	<0.541 U	<0.513 U	<0.513 UJ	<0.5 UJ
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.56 UJ	<2.5 UJ
n-Nitrosodiphenylamine	86-30-6	50	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.56 UJ	<2.5 UJ
Pentachlorophenol	87-86-5	1	NS	ug/l	<0.278 UJ	<0.27 U	<0.256 U	<0.256 UJ	<0.25 U
Phenanthrene	85-01-8	50	NS	ug/l	0.578	<0.0541 U	<0.0513 U	<0.0513 UJ	0.09 J
Phenol	108-95-2	1	NS	ug/l	<2.78 UJ	<2.7 U	<2.56 U	<2.56 UJ	<2.5 U
Pyrene	129-00-0	50	NS	ug/l	0.122	<0.0541 U	<0.0513 U	<0.0513 UJ	<0.05 UJ
Pyridine	110-86-1	50	NS	ug/l	<2.78 U	<2.7 U	<2.56 U	<2.56 UJ	<2.5 UJ

Notes provided on Page 5.
Concentrations above NYSDEC SGVs are bolded.
Concentrations above NYSDEC Guidance Values are shaded.

Table 5E
Remedial Investigation Report
Groundwater Sample Analytical Results - Block 1822 (I)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC SGVs	NYSDEC Guidance Values	Location	I-MW101	I-MW102	I-MW103	I-MW104	I-MW105
				Sample Name	I-MW101_101121	I-MW102_101121	I-MW103_101121	I-MW104_101121	I-MW105_101121
				Sample Date	10/11/2021	10/11/2021	10/11/2021	10/11/2021	10/11/2021
				Unit	Result	Result	Result	Result	Result
Pesticides									
4,4'-DDD	72-54-8	0.3	NS	ug/l	<0.00432 U	<0.00471 U	<0.00457 U	<0.00457 U	<0.00457 UJ
4,4'-DDE	72-55-9	0.2	NS	ug/l	<0.00432 U	<0.00471 U	<0.00457 U	<0.00457 U	<0.00457 UJ
4,4'-DDT	50-29-3	0.2	NS	ug/l	<0.00432 U	<0.00471 U	<0.00457 U	<0.00457 U	<0.00457 UJ
Aldrin	309-00-2	0	NS	ug/l	<0.00432 U	<0.00471 U	<0.00457 U	<0.00457 U	<0.00457 UJ
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.01	NS	ug/l	<0.00432 U	<0.00471 U	<0.00457 U	<0.00457 U	<0.00457 UJ
Alpha Chlordane	5103-71-9	NS	NS	ug/l	<0.00432 U	<0.00471 U	<0.00457 U	<0.00457 U	<0.00457 UJ
Alpha Endosulfan	959-98-8	NS	NS	ug/l	<0.00432 U	<0.00471 U	<0.00457 U	<0.00457 U	<0.00457 UJ
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.04	NS	ug/l	<0.00432 U	<0.00471 U	<0.00457 U	<0.00457 U	<0.00457 UJ
Beta Endosulfan	33213-65-9	NS	NS	ug/l	<0.00432 U	<0.00471 U	<0.00457 U	<0.00457 U	<0.00457 UJ
Chlordane (alpha and gamma)	57-74-9	0.05	NS	ug/l	<0.216 U	<0.235 U	<0.229 U	<0.229 U	<0.229 UJ
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	NS	ug/l	<0.00432 U	<0.00471 U	<0.00457 U	<0.00457 U	<0.00457 UJ
Dieldrin	60-57-1	0.004	NS	ug/l	<0.00216 U	<0.00235 U	<0.00229 U	<0.00229 U	<0.00229 UJ
Endosulfan Sulfate	1031-07-8	NS	NS	ug/l	<0.00432 U	<0.00471 U	<0.00457 U	<0.00457 U	<0.00457 UJ
Endrin	72-20-8	0	NS	ug/l	<0.00432 U	<0.00471 U	<0.00457 U	<0.00457 U	<0.00457 UJ
Endrin Aldehyde	7421-93-4	5	NS	ug/l	<0.0108 U	<0.0118 U	<0.0114 U	<0.0114 U	<0.0114 UJ
Endrin Ketone	53494-70-5	5	NS	ug/l	<0.0108 U	<0.0118 U	<0.0114 U	<0.0114 U	<0.0114 UJ
Gamma Bhc (Lindane)	58-89-9	0.05	NS	ug/l	<0.00432 U	<0.00471 U	<0.00457 U	<0.00457 U	<0.00457 UJ
Gamma-Chlordane	5566-34-7	NS	NS	ug/l	<0.0108 U	<0.0118 U	<0.0114 U	<0.0114 U	<0.0114 UJ
Heptachlor	76-44-8	0.04	NS	ug/l	<0.00432 U	<0.00471 U	<0.00457 U	<0.00457 U	<0.00457 UJ
Heptachlor Epoxide	1024-57-3	0.03	NS	ug/l	<0.00432 U	<0.00471 U	<0.00457 U	<0.00457 U	<0.00457 UJ
Methoxychlor	72-43-5	35	NS	ug/l	<0.00432 U	<0.00471 U	<0.00457 U	<0.00457 U	<0.00457 UJ
Toxaphene	8001-35-2	0.06	NS	ug/l	<0.108 U	<0.118 U	<0.114 U	<0.114 U	<0.114 UJ
Polychlorinated Biphenyl									
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	ug/l	<0.0541 U	<0.0588 U	<0.0571 U	<0.0571 U	<0.0571 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	ug/l	<0.0541 U	<0.0588 U	<0.0571 U	<0.0571 U	<0.0571 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	ug/l	<0.0541 U	<0.0588 U	<0.0571 U	<0.0571 U	<0.0571 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	ug/l	<0.0541 U	<0.0588 U	<0.0571 U	<0.0571 U	<0.0571 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	ug/l	<0.0541 U	<0.0588 U	<0.0571 U	<0.0571 U	<0.0571 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	ug/l	<0.0541 U	<0.0588 U	<0.0571 U	<0.0571 U	<0.0571 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	ug/l	<0.0541 U	<0.0588 U	<0.0571 U	<0.0571 U	<0.0571 U
Total PCBs	1336-36-3	0.09	NS	ug/l	<0.0541 U	<0.0588 U	<0.0571 U	<0.0571 U	<0.0571 U
Metals - Dissolved									
Aluminum	7429-90-5	NS	NS	ug/l	102	77.6	182	226	151
Antimony	7440-36-0	3	NS	ug/l	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U
Arsenic	7440-38-2	25	NS	ug/l	4.76 J	3.35	2.63	4.76	3.93
Barium	7440-39-3	1000	NS	ug/l	170	45.1	301	354	233
Beryllium	7440-41-7	3	NS	ug/l	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U
Cadmium	7440-43-9	5	NS	ug/l	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.556 U
Calcium	7440-70-2	NS	NS	ug/l	139,000	119,000	96,100	108,000	239,000
Chromium, Total	7440-47-3	50	NS	ug/l	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U
Cobalt	7440-48-4	NS	NS	ug/l	<4.44 U	<4.44 U	<4.44 U	<4.44 U	<4.44 U
Copper	7440-50-8	200	NS	ug/l	<22.2 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U
Iron	7439-89-6	**300**	NS	ug/l	**2,150 J**	**1,470**	**2,310**	**9,650**	**7,660**
Lead	7439-92-1	25	NS	ug/l	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U
Magnesium	7439-95-4	35000	NS	ug/l	19,000	24,800	23,300	16,500	27,800
Manganese	7439-96-5	**300**	NS	ug/l	**619**	**668**	**441**	**758**	**1,260**
Mercury	7439-97-6	0.7	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Nickel	7440-02-0	100	NS	ug/l	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U
Potassium	7440-09-7	NS	NS	ug/l	43,200	18,700	31,700	16,000	32,200
Selenium	7782-49-2	10	NS	ug/l	<1.11 U	<1.11 U	1.58	<1.11 U	1.37
Silver	7440-22-4	50	NS	ug/l	<5.56 UJ	<5.56 U	<5.56 U	<5.56 U	<5.56 U
Sodium	7440-23-5	**20000**	NS	ug/l	**92,800**	**163,000**	**239,000**	**112,000**	**131,000**
Thallium	7440-28-0	0.5	NS	ug/l	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U
Vanadium	7440-62-2	NS	NS	ug/l	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U
Zinc	7440-66-6	2000	NS	ug/l	<27.8 U	<27.8 U	<27.8 U	31.4	<27.8 U
Metals - Total									
Aluminum	7429-90-5	NS	NS	ug/l	577 J	92.2	338	141	110
Antimony	7440-36-0	3	NS	ug/l	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U
Arsenic	7440-38-2	25	NS	ug/l	7.13	14.3	2.76	4.7	3.44
Barium	7440-39-3	1000	NS	ug/l	221	77.9	365	371	239
Beryllium	7440-41-7	3	NS	ug/l	<0.333 UJ	<0.333 U	<0.333 U	<0.333 U	<0.333 U
Cadmium	7440-43-9	5	NS	ug/l	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.556 U
Calcium	7440-70-2	NS	NS	ug/l	147,000	124,000	113,000	111,000	245,000
Chromium, Hexavalent	18540-29-9	50	NS	ug/l	<10 U	<10 U	<10 U	<10 U	<10 U
Chromium, Total	7440-47-3	50	NS	ug/l	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U
Chromium, Trivalent	16065-83-1	NS	NS	ug/l	<10 U	<10 U	<10 U	<10 U	<10 U
Cobalt	7440-48-4	NS	NS	ug/l	<4.44 U	<4.44 U	<4.44 U	<4.44 U	<4.44 U
Copper	7440-50-8	200	NS	ug/l	<22.2 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U
Cyanide	57-12-5	200	NS	ug/l	<10 U	<10 U	<10 U	<10 U	<10 U
Iron	7439-89-6	**300**	NS	ug/l	**10,100**	**20,200**	**4,610**	**11,100**	**7,230**
Lead	7439-92-1	25	NS	ug/l	12.6 J	<5.56 U	<5.56 U	<5.56 U	<5.56 U
Magnesium	7439-95-4	35000	NS	ug/l	19,600	24,600	23,800	16,100	28,000
Manganese	7439-96-5	**300**	NS	ug/l	**623**	**746**	**493**	**784**	**1,320**
Mercury	7439-97-6	0.7	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Nickel	7440-02-0	100	NS	ug/l	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U
Potassium	7440-09-7	NS	NS	ug/l	46,100 B	19,800 B	32,100 B	15,600 B	31,700 B
Selenium	7782-49-2	10	NS	ug/l	1.13	<1.11 U	<1.11 U	<1.11 U	<1.11 U
Silver	7440-22-4	50	NS	ug/l	<5.56 UJ	<5.56 U	<5.56 U	<5.56 U	<5.56 U
Sodium	7440-23-5	**20000**	NS	ug/l	**100,000**	**165,000**	**246,000**	**110,000**	**128,000**
Thallium	7440-28-0	0.5	NS	ug/l	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U
Vanadium	7440-62-2	NS	NS	ug/l	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U
Zinc	7440-66-6	2000	NS	ug/l	28.8 J	<27.8 U	<27.8 U	50.2	<27.8 U

Notes provided on Page 5.
Concentrations above NYSDEC SGVs are bolded.
Concentrations above NYSDEC Guidance Values are shaded.

Table 5E
Remedial Investigation Report
Groundwater Sample Analytical Results - Block 1822 (I)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC SGVs	NYSDEC Guidance Values	Location	I-MW101	I-MW102	I-MW103	I-MW104	I-MW105
				Sample Name	I-MW101_101121	I-MW102_101121	I-MW103_101121	I-MW104_101121	I-MW105_101121
				Sample Date	10/11/2021	10/11/2021	10/11/2021	10/11/2021	10/11/2021
				Unit	Result	Result	Result	Result	Result
Perfluorooctanoic acids									
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	NS	ug/l	<0.00192 U	<0.002 U	<0.00192 U	<0.00208 U	<0.00179 U
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOSAA	2355-31-9	NS	NS	ug/l	<0.00192 U	<0.002 U	<0.00192 U	<0.00208 U	<0.00179 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	ug/l	0.0101	0.0116	0.0097	0.0114	0.00809
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	ug/l	0.0145	0.0197	0.0163	0.0201	0.0135
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	ug/l	<0.00192 U	<0.002 U	<0.00192 U	<0.00208 U	<0.00179 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	ug/l	<0.00192 U	0.00318	<0.00192 U	<0.00208 U	<0.00179 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	ug/l	<0.00192 U	<0.002 U	<0.00192 U	<0.00208 U	<0.00179 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	ug/l	<0.00192 U	<0.002 U	<0.00192 U	<0.00208 U	0.00201
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	ug/l	0.0119	0.0166	0.0104	0.0112	0.012
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	ug/l	0.011	0.00638	0.00595	0.0041	0.0087
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	ug/l	0.0148	0.0123	0.0197	0.0234	0.0187
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	ug/l	0.00995	0.00445	0.00331	0.00248	0.0109
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	ug/l	<0.00192 UJ	<0.002 UJ	0.00288 J	<0.00208 UJ	<0.00179 UJ
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	NS	0.01	ug/l	0.0682	0.302	0.0467	0.0357	0.0644
Perfluorooctanoic Acid (PFOA)	335-67-1	NS	0.01	ug/l	0.0267	0.0323	0.0269	0.0204	0.0335
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	ug/l	0.0269	0.0248	0.0299	0.0446	0.0288
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	ug/l	<0.00192 U	<0.002 U	<0.00192 U	<0.00208 U	<0.00179 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	ug/l	<0.00192 U	<0.002 U	<0.00192 U	<0.00208 U	<0.00179 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	ug/l	<0.00192 U	<0.002 U	<0.00192 U	<0.00208 U	<0.00179 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FTS)	39108-34-4	NS	NS	ug/l	<0.00192 U	<0.002 U	<0.00192 U	<0.00208 U	<0.00179 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FTS)	27619-97-2	NS	NS	ug/l	<0.00481 U	<0.005 U	<0.00481 U	<0.00521 U	<0.00446 U

Notes provided on Page 5.
Concentrations above NYSDEC SGVs are bolded.
Concentrations above NYSDEC Guidance Values are shaded.

Table 5E
Remedial Investigation Report
Groundwater Sample Analytical Results - Block 1822 (I)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Notes:
CAS - Chemical Abstract Service
NS - No standard
ug/l - microgram per liter
NA - Not analyzed
RL - Reporting limit
<RL - Not detected
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").

Groundwater sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Part 375 Remedial Programs Guidelines for Sampling and Analysis of Per- and Polyfluoroalkyl Substances (PFAS) (January 2021) and the 1,4-Dioxane value reflects the drinking water maximum contaminant level (MCL) adopted by New York State for public water systems (July 2020). Pursuant to Part 375-1.7(f)(2), the NYSDEC will treat the MCL as relevant and appropriate and will consider this value in remedy selection.

The criteria comparison for dissolved total chromium is provided for reference. The promulgated SGVs shown is for hexavalent chromium.

Qualifiers:
D - The concentration reported is a result of a diluted sample.
B - The analyte was found in the associated analysis batch blank.
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
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.

Exceedance Summary:
10 - Result exceeds NYSDEC SGVs
10 - Result exceeds NYSDEC Guidance Values

Table 5F
Remedial Investigation Report
Groundwater Sample Analytical Results - Block 1833 (J)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC SGVs	NYSDEC Guidance Values	Location	J-MW101	J-MW102	J-MW117	J-MW118
				Sample Name	J-MW101_101421	J-MW102_101421	J-MW117_030422	J-MW118_030422
				Sample Date	10/14/2021	10/14/2021	3/4/2022	3/4/2022
				Unit	Result	Result	Result	Result
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	630-20-6	5	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 U
1,1,1-Trichloroethane	71-55-6	5	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 U
1,1,2,2-Tetrachloroethane	79-34-5	5	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	5	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 U
1,1,2-Trichloroethane	79-00-5	1	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 U
1,1-Dichloroethane	75-34-3	5	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 U
1,1-Dichloroethene	75-35-4	5	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 U
1,2,3-Trichlorobenzene	87-61-6	5	NS	ug/l	<0.2 U	<0.2 U	<2 UJ	<2 U
1,2,3-Trichloropropane	96-18-4	0.04	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 U
1,2,4-Trichlorobenzene	120-82-1	5	NS	ug/l	<0.2 U	<0.2 U	<2 UJ	<2 U
1,2,4-Trimethylbenzene	95-63-6	**5**	NS	ug/l	<0.2 U	**6.02**	**105 D**	**110 D**
1,2-Dibromo-3-Chloropropane	96-12-8	0.04	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.0006	NS	ug/l	<0.2 U	<0.2 U	<2 UJ	<2 U
1,2-Dichlorobenzene	95-50-1	3	NS	ug/l	<0.2 U	0.37 J	<2 U	<2 U
1,2-Dichloroethane	107-06-2	0.6	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 U
1,2-Dichloropropane	78-87-5	1	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	**5**	NS	ug/l	<0.2 U	2.58 J	**24.7 D**	**30.1 D**
1,3-Dichlorobenzene	541-73-1	3	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 UJ
1,4-Dichlorobenzene	106-46-7	3	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 UJ
1,4-Dioxane (P-Dioxane)	123-91-1	NS	1	ug/l	<40 U	<40 U	<400 U	<400 U
2-Hexanone (MBK)	591-78-6	50	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 U
Acetone	67-64-1	**50**	NS	ug/l	1.42 J	3.32	**63.6 BD**	**203 D**
Acrolein	107-02-8	5	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 U
Acrylonitrile	107-13-1	5	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 U
Benzene	71-43-2	**1**	NS	ug/l	0.84	**1.27**	**75 D**	**137 D**
Bromochloromethane	74-97-5	5	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 U
Bromodichloromethane	75-27-4	50	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 U
Bromoform	75-25-2	50	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 U
Bromomethane	74-83-9	5	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 U
Carbon Disulfide	75-15-0	60	NS	ug/l	1	1.02	<2 U	2.4 JD
Carbon Tetrachloride	56-23-5	5	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 U
Chlorobenzene	108-90-7	5	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 U
Chloroethane	75-00-3	5	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 U
Chloroform	67-66-3	7	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 U
Chloromethane	74-87-3	5	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 U
Cis-1,2-Dichloroethene	156-59-2	5	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 U
Cis-1,3-Dichloropropene	10061-01-5	0.4	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 U
Cyclohexane	110-82-7	NS	NS	ug/l	0.34 J	0.31 J	4.1 JD	2.3 JD
Dibromochloromethane	124-48-1	50	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 UJ
Dibromomethane	74-95-3	5	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 U
Dichlorodifluoromethane	75-71-8	5	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 U
Ethylbenzene	100-41-4	**5**	NS	ug/l	<0.2 U	2.27	**59.5 D**	**92.5 D**
Hexachlorobutadiene	87-68-3	0.5	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 U
Isopropylbenzene (Cumene)	98-82-8	**5**	NS	ug/l	<0.2 U	0.66	**9.3 D**	3.9 JD
M,P-Xylene	179601-23-1	**5**	NS	ug/l	<0.5 U	**7.35**	**164 D**	**346 D**
Methyl Acetate	79-20-9	NS	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	50	NS	ug/l	<0.2 U	0.26 J	8.8 D	22.3 D
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	ug/l	<0.2 U	0.23 J	28.2 D	52.5 D
Methylcyclohexane	108-87-2	NS	NS	ug/l	0.2 J	0.59	3.6 JD	<2 U
Methylene Chloride	75-09-2	**5**	NS	ug/l	<1 U	<1 U	**22 J**	<10 U
n-Butylbenzene	104-51-8	5	NS	ug/l	<0.2 U	0.4 J	2.7 JD	2.3 JD
n-Propylbenzene	103-65-1	**5**	NS	ug/l	<0.2 U	1.59	**25.5 D**	**10.5 D**
o-Xylene (1,2-Dimethylbenzene)	95-47-6	**5**	NS	ug/l	<0.2 U	4.87	**108 D**	**212 D**
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	ug/l	<0.2 U	0.5	<2 U	<2 U
Sec-Butylbenzene	135-98-8	5	NS	ug/l	<0.2 U	0.4 J	<2 U	<2 U
Styrene	100-42-5	**5**	NS	ug/l	<0.2 U	<0.2 U	**9 D**	**10.1 D**
T-Butylbenzene	98-06-6	5	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 UJ
Tert-Butyl Alcohol	75-65-0	NS	NS	ug/l	3.74 J	<0.5 UJ	203 D	348 D
Tert-Butyl Methyl Ether	1634-04-4	**10**	NS	ug/l	**12.5**	2.26	**138 D**	**1,190 D**
Tetrachloroethene (PCE)	127-18-4	5	NS	ug/l	<0.2 U	<0.2 U	3.9 JD	<2 U
Toluene	108-88-3	**5**	NS	ug/l	<0.2 U	2.05	**191 D**	**478 D**
Total Xylenes	1330-20-7	**5**	NS	ug/l	<0.6 U	**12.2**	**273 D**	**558 D**
Trans-1,2-Dichloroethene	156-60-5	5	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 U
Trans-1,3-Dichloropropene	10061-02-6	0.4	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 U
Trichloroethene (TCE)	79-01-6	5	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 U
Trichlorofluoromethane	75-69-4	5	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 U
Vinyl Chloride	75-01-4	2	NS	ug/l	<0.2 U	<0.2 U	<2 U	<2 U

Notes provided on Page 5.
Concentrations above NYSDEC SGVs are bolded.
Concentrations above NYSDEC Guidance Values are shaded.

Table 5F
Remedial Investigation Report
Groundwater Sample Analytical Results - Block 1833 (J)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC SGVs	NYSDEC Guidance Values	Location	J-MW101	J-MW102	J-MW117	J-MW118
				Sample Name	J-MW101_101421	J-MW102_101421	J-MW117_030422	J-MW118_030422
				Sample Date	10/14/2021	10/14/2021	3/4/2022	3/4/2022
				Unit	Result	Result	Result	Result
Semi-Volatile Organic Compounds								
1,2,4,5-Tetrachlorobenzene	95-94-3	5	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U
1,2-Diphenylhydrazine	122-66-7	0	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U
1,4-Dioxane (P-Dioxane)	123-91-1	NS	1	ug/l	0.576	<0.3 U	8.5	13.4
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U
2,4-Dichlorophenol	120-83-2	**1**	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	**7.13 J**
2,4-Dimethylphenol	105-67-9	**1**	NS	ug/l	<2.5 U	<2.5 U	**70.5 D**	**31.8**
2,4-Dinitrophenol	51-28-5	1	NS	ug/l	<2.5 U	<2.5 U	<2.7 UJ	<3.57 UJ
2,4-Dinitrotoluene	121-14-2	5	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U
2,6-Dinitrotoluene	606-20-2	5	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U
2-Chloronaphthalene	91-58-7	10	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U
2-Chlorophenol	95-57-8	NS	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U
2-Methylnaphthalene	91-57-6	NS	NS	ug/l	<2.5 U	<2.5 U	16.2	13.7
2-Methylphenol (o-Cresol)	95-48-7	NS	NS	ug/l	<2.5 U	<2.5 U	13.3	<3.57 U
2-Nitroaniline	88-74-4	5	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U
2-Nitrophenol	88-75-5	NS	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	NS	NS	ug/l	<2.5 U	<2.5 U	126 D	129 D
3,3'-Dichlorobenzidine	91-94-1	5	NS	ug/l	<2.5 U	<2.5 U	<2.7 UJ	<3.57 UJ
3-Nitroaniline	99-09-2	5	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U
4-Chloroaniline	106-47-8	5	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U
4-Nitroaniline	100-01-6	5	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U
4-Nitrophenol	100-02-7	NS	NS	ug/l	<5 U	<5 U	<5.41 UJ	<7.14 UJ
Acenaphthene	83-32-9	20	NS	ug/l	0.32	0.52	<0.0541 U	0.657
Acenaphthylene	208-96-8	NS	NS	ug/l	0.06	<0.05 U	<0.0541 U	<0.0714 U
Acetophenone	98-86-2	NS	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	5	NS	ug/l	<2.5 U	<2.5 U	<2.7 UJ	<3.57 UJ
Anthracene	120-12-7	50	NS	ug/l	0.19	0.45	<0.0541 U	3.9
Atrazine	1912-24-9	7.5	NS	ug/l	<0.5 U	<0.5 U	<0.541 U	<0.714 U
Benzaldehyde	100-52-7	NS	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U
Benzidine	92-87-5	5	NS	ug/l	<5 U	<5 U	<5.41 U	<7.14 U
Benzo(a)anthracene	56-55-3	**0.002**	NS	ug/l	<0.05 U	<0.05 U	<0.0541 U	**0.129**
Benzo(a)pyrene	50-32-8	0	NS	ug/l	<0.05 U	<0.05 U	<0.0541 U	<0.0714 U
Benzo(b)fluoranthene	205-99-2	0.002	NS	ug/l	<0.05 U	<0.05 U	<0.0541 U	<0.0714 U
Benzo(g,h,i)Perylene	191-24-2	NS	NS	ug/l	<0.05 U	<0.05 U	<0.0541 U	<0.0714 U
Benzo(k)fluoranthene	207-08-9	0.002	NS	ug/l	<0.05 U	<0.05 U	<0.0541 U	<0.0714 U
Benzoic Acid	65-85-0	NS	NS	ug/l	<2.5 U	<2.5 U	<2.7 UJ	47.1 J
Benzyl Alcohol	100-51-6	NS	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U
Benzyl Butyl Phthalate	85-68-7	50	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U
Biphenyl (Diphenyl)	92-52-4	5	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U
Bis(2-chloroethoxy) methane	111-91-1	5	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	1	NS	ug/l	<1 U	<1 U	<1.08 U	<1.43 U
Bis(2-chloroisopropyl) ether	108-60-1	5	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U
Bis(2-ethylhexyl) phthalate	117-81-7	5	NS	ug/l	1.02	3.32	<0.541 U	1.93
Caprolactam	105-60-2	NS	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U
Carbazole	86-74-8	NS	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U
Chrysene	218-01-9	**0.002**	NS	ug/l	<0.05 U	<0.05 U	<0.0541 U	**0.586**
Cresols, Total	1319-77-3	NS	NS	ug/l	NA	NA	144 JD	149 JD
Dibenz(a,h)anthracene	53-70-3	NS	NS	ug/l	<0.05 U	<0.05 U	<0.0541 U	<0.0714 U
Dibenzofuran	132-64-9	NS	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U
Dibutyl phthalate	84-74-2	50	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U
Diethyl phthalate	84-66-2	50	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U
Dimethyl phthalate	131-11-3	50	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U
Dioctyl phthalate	117-84-0	50	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U
Diphenylamine	122-39-4	5	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U
Fluoranthene	206-44-0	50	NS	ug/l	0.1	0.23	<0.0541 U	0.914
Fluorene	86-73-7	50	NS	ug/l	0.25	0.52	0.616	0.771
Hexachlorobenzene	118-74-1	0.04	NS	ug/l	<0.02 U	<0.02 U	<0.0216 U	<0.0286 U
Hexachlorobutadiene	87-68-3	0.5	NS	ug/l	<0.5 U	<0.5 U	<0.541 U	<0.714 U
Hexachlorocyclopentadiene	77-47-4	5	NS	ug/l	<5 U	<5 U	<5.41 UJ	<7.14 UJ
Hexachloroethane	67-72-1	5	NS	ug/l	<0.5 U	<0.5 U	<0.541 U	<0.714 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	NS	ug/l	<0.05 U	<0.05 U	<0.0541 U	<0.0714 U
Isophorone	78-59-1	50	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U
Naphthalene	91-20-3	**10**	NS	ug/l	0.78	2.02	**44.5 D**	**33.9 D**
Nitrobenzene	98-95-3	0.4	NS	ug/l	<0.25 U	<0.25 U	<0.27 U	<0.357 U
n-Nitrosodimethylamine	62-75-9	NS	NS	ug/l	<0.5 U	<0.5 U	<0.541 U	<0.714 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U
n-Nitrosodiphenylamine	86-30-6	50	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U
Pentachlorophenol	87-86-5	1	NS	ug/l	<0.25 U	<0.25 U	<0.27 U	<0.357 U
Phenanthrene	85-01-8	50	NS	ug/l	0.41	0.91	3.9	1.36
Phenol	108-95-2	**1**	NS	ug/l	<2.5 U	<2.5 U	**5.39 J**	**32.6**
Pyrene	129-00-0	50	NS	ug/l	0.07	0.16	<0.0541 U	0.529
Pyridine	110-86-1	50	NS	ug/l	<2.5 U	<2.5 U	<2.7 U	<3.57 U

Notes provided on Page 5.
Concentrations above NYSDEC SGVs are bolded.
Concentrations above NYSDEC Guidance Values are shaded.

Table 5F
Remedial Investigation Report
Groundwater Sample Analytical Results - Block 1833 (J)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC SGVs	NYSDEC Guidance Values	Location	J-MW101	J-MW102	J-MW117	J-MW118
				Sample Name	J-MW101_101421	J-MW102_101421	J-MW117_030422	J-MW118_030422
				Sample Date	10/14/2021	10/14/2021	3/4/2022	3/4/2022
				Unit	Result	Result	Result	Result
Pesticides								
4,4'-DDD	72-54-8	0.3	NS	ug/l	<0.0041 U	<0.00421 U	<0.00432 U	<0.00533 UJ
4,4'-DDE	72-55-9	0.2	NS	ug/l	<0.0041 U	<0.00421 U	<0.00432 U	<0.00533 UJ
4,4'-DDT	50-29-3	0.2	NS	ug/l	<0.0041 UJ	<0.00421 UJ	<0.00432 U	<0.00533 UJ
Aldrin	309-00-2	0	NS	ug/l	<0.0041 U	<0.00421 U	<0.00432 U	<0.00533 UJ
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.01	NS	ug/l	<0.0041 U	<0.00421 U	<0.00432 U	<0.00533 UJ
Alpha Chlordane	5103-71-9	NS	NS	ug/l	<0.0041 U	<0.00421 U	<0.00432 U	<0.00533 UJ
Alpha Endosulfan	959-98-8	NS	NS	ug/l	<0.0041 U	<0.00421 U	<0.00432 U	<0.00533 UJ
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.04	NS	ug/l	<0.0041 U	<0.00421 U	<0.00432 U	<0.00533 UJ
Beta Endosulfan	33213-65-9	NS	NS	ug/l	<0.0041 U	<0.00421 U	<0.00432 U	<0.00533 UJ
Chlordane (alpha and gamma)	57-74-9	0.05	NS	ug/l	<0.205 U	<0.211 U	<0.216 U	<0.267 UJ
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	NS	ug/l	<0.0041 U	<0.00421 U	<0.00432 U	<0.00533 UJ
Dieldrin	60-57-1	0.004	NS	ug/l	<0.00205 U	<0.00211 U	<0.00216 U	<0.00267 UJ
Endosulfan Sulfate	1031-07-8	NS	NS	ug/l	<0.0041 UJ	<0.00421 UJ	<0.00432 U	<0.00533 UJ
Endrin	72-20-8	0	NS	ug/l	<0.0041 U	<0.00421 U	<0.00432 U	<0.00533 UJ
Endrin Aldehyde	7421-93-4	5	NS	ug/l	<0.0103 UJ	<0.0105 UJ	<0.0108 U	<0.0133 UJ
Endrin Ketone	53494-70-5	5	NS	ug/l	<0.0103 U	<0.0105 U	<0.0108 U	<0.0133 UJ
Gamma Bhc (Lindane)	58-89-9	0.05	NS	ug/l	<0.0041 U	<0.00421 U	<0.00432 U	<0.00533 UJ
Gamma-Chlordane	5566-34-7	NS	NS	ug/l	<0.0103 U	<0.0105 U	<0.0108 U	<0.0133 UJ
Heptachlor	76-44-8	0.04	NS	ug/l	<0.0041 U	<0.00421 U	<0.00432 U	<0.00533 UJ
Heptachlor Epoxide	1024-57-3	0.03	NS	ug/l	<0.0041 U	<0.00421 U	<0.00432 U	<0.00533 UJ
Methoxychlor	72-43-5	35	NS	ug/l	<0.0041 U	<0.00421 U	<0.00432 U	<0.00533 UJ
Toxaphene	8001-35-2	0.06	NS	ug/l	<0.103 U	<0.105 U	<0.108 U	<0.133 UJ
Herbicides								
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	35	NS	ug/l	NA	NA	<5 U	<5 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	50	NS	ug/l	NA	NA	<5 U	<5 U
Silvex (2,4,5-Tp)	93-72-1	0.26	NS	ug/l	NA	NA	<5 U	<5 U
Polychlorinated Biphenyl								
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	ug/l	<0.0513 U	0.0867	0.82	<0.0714 UJ
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	ug/l	<0.0513 U	<0.0526 U	<0.0541 U	<0.0714 UJ
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	ug/l	<0.0513 U	<0.0526 U	<0.0541 U	<0.0714 UJ
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	ug/l	<0.0513 U	<0.0526 U	<0.0541 U	<0.0714 UJ
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	ug/l	<0.0513 U	<0.0526 U	<0.0541 U	<0.0714 UJ
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	ug/l	<0.0513 U	<0.0526 U	<0.0541 U	0.328 J
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	ug/l	<0.0513 U	<0.0526 U	0.131	<0.0714 UJ
Total PCBs	1336-36-3	**0.09**	NS	ug/l	<0.0513 U	0.0867	**0.952**	**0.328 J**
Metals - Dissolved								
Aluminum	7429-90-5	NS	NS	ug/l	414	514	70.1	64.4
Antimony	7440-36-0	**3**	NS	ug/l	<1.67 U	<1.43 U	**15.6**	**24.8**
Arsenic	7440-38-2	**25**	NS	ug/l	8.25	5.83	10.6	**48.6**
Barium	7440-39-3	1000	NS	ug/l	47.9	28	353	73
Beryllium	7440-41-7	3	NS	ug/l	<0.5 U	<0.429 U	<0.333 U	<0.333 U
Cadmium	7440-43-9	5	NS	ug/l	<0.833 UJ	<0.714 UJ	0.943	0.828
Calcium	7440-70-2	NS	NS	ug/l	14,800 B	27,400 B	26,300 B	82,800 B
Chromium, Hexavalent	18540-29-9	50	NS	ug/l	NA	NA	<10 U	<10 U
Chromium, Total	7440-47-3	**50**	NS	ug/l	<5.56 U	<5.56 U	38.2 J	**116 B**
Chromium, Trivalent	16065-83-1	NS	NS	ug/l	NA	NA	38.2	116
Cobalt	7440-48-4	NS	NS	ug/l	<4.44 U	<4.44 U	<4.44 U	6.39
Copper	7440-50-8	200	NS	ug/l	<22.2 U	<22.2 U	30.8	42.8
Iron	7439-89-6	**300**	NS	ug/l	**410**	**528**	**692 J**	**3,510 J**
Lead	7439-92-1	**25**	NS	ug/l	7.56	8.29	**76.7**	**89.5**
Magnesium	7439-95-4	35000	NS	ug/l	1,460	678	20,400	252
Manganese	7439-96-5	300	NS	ug/l	11.6	7.49	15.2	8.45
Mercury	7439-97-6	0.7	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Nickel	7440-02-0	100	NS	ug/l	<11.1 U	<11.1 U	52.1	74.2
Potassium	7440-09-7	NS	NS	ug/l	16,100 B	16,000 B	40,700 J	43,000 J
Selenium	7782-49-2	**10**	NS	ug/l	<1.67 U	<1.43 U	**14 J**	**44.1 B**
Silver	7440-22-4	50	NS	ug/l	<5.56 U	<5.56 U	<5.56 U	<5.56 U
Sodium	7440-23-5	**20000**	NS	ug/l	**204,000 B**	**116,000 B**	**949,000**	**992,000**
Thallium	7440-28-0	0.5	NS	ug/l	<1.67 UJ	<1.43 UJ	<1.11 U	<1.11 U
Vanadium	7440-62-2	NS	NS	ug/l	<11.1 U	<11.1 U	45.8	313
Zinc	7440-66-6	2000	NS	ug/l	<27.8 U	<27.8 U	156	214

Notes provided on Page 5.
Concentrations above NYSDEC SGVs are bolded.
Concentrations above NYSDEC Guidance Values are shaded.

Table 5F
Remedial Investigation Report
Groundwater Sample Analytical Results - Block 1833 (J)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC SGVs	NYSDEC Guidance Values	Location	J-MW101	J-MW102	J-MW117	J-MW118
				Sample Name	J-MW101_101421	J-MW102_101421	J-MW117_030422	J-MW118_030422
				Sample Date	10/14/2021	10/14/2021	3/4/2022	3/4/2022
				Unit	Result	Result	Result	Result
Metals - Total								
Aluminum	7429-90-5	NS	NS	ug/l	357	600	<55.6 U	88.7
Antimony	7440-36-0	**3**	NS	ug/l	<1.11 U	<1.11 U	**13.5**	**26.7**
Arsenic	7440-38-2	**25**	NS	ug/l	<1.11 U	<1.11 U	**34.5**	**54.7**
Barium	7440-39-3	1000	NS	ug/l	44.3	<27.8 U	323	64.2
Beryllium	7440-41-7	3	NS	ug/l	<0.333 U	<0.333 U	<0.333 U	<0.333 U
Cadmium	7440-43-9	5	NS	ug/l	<0.556 U	<0.556 U	0.717	<0.556 U
Calcium	7440-70-2	NS	NS	ug/l	15,400	29,700	26,800 J	83,600 J
Chromium, Hexavalent	18540-29-9	50	NS	ug/l	<10 U	<10 U	<10 U	<10 U
Chromium, Total	7440-47-3	NS	NS	ug/l	<5.56 U	<5.56 U	37.2 J	138 B
Chromium, Trivalent	16065-83-1	NS	NS	ug/l	<10 U	<10 U	37.2	138
Cobalt	7440-48-4	NS	NS	ug/l	<4.44 U	<4.44 U	<4.44 U	5.87
Copper	7440-50-8	200	NS	ug/l	<22.2 U	<22.2 U	<22.2 U	26.3
Cyanide	57-12-5	**200**	NS	ug/l	<10 U	<10 U	**302 D**	159
Iron	7439-89-6	**300**	NS	ug/l	<278 U	<278 U	**621**	**3,890**
Lead	7439-92-1	**25**	NS	ug/l	5.61	5.78	**33.7**	23.5
Magnesium	7439-95-4	35000	NS	ug/l	1,330	571	19,100	204
Manganese	7439-96-5	300	NS	ug/l	<5.56 U	<5.56 U	14.8	6.05
Mercury	7439-97-6	0.7	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Nickel	7440-02-0	**100**	NS	ug/l	<11.1 U	<11.1 U	55.6	**106**
Potassium	7440-09-7	NS	NS	ug/l	14,900 B	16,000 B	37,000 J	44,000 J
Selenium	7782-49-2	**10**	NS	ug/l	<1.11 U	<1.11 U	**46.6**	**73.8**
Silver	7440-22-4	50	NS	ug/l	<5.56 U	<5.56 U	<5.56 U	<5.56 U
Sodium	7440-23-5	**20000**	NS	ug/l	**192,000**	**122,000**	**861,000**	**973,000**
Thallium	7440-28-0	0.5	NS	ug/l	<1.11 U	<1.11 U	<1.11 U	<1.11 U
Vanadium	7440-62-2	NS	NS	ug/l	<11.1 U	<11.1 U	44	330
Zinc	7440-66-6	2000	NS	ug/l	33.8	<27.8 U	78	131
Perfluorooctanoic acids								
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	NS	ug/l	<0.00185 U	0.00264	<0.0357 U	<0.0385 U
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	NS	NS	ug/l	<0.00185 U	<0.00179 U	<0.0357 U	<0.0385 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	ug/l	<0.00185 U	0.00794	0.0376 D	<0.0385 UJ
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	ug/l	<0.00185 U	0.0236	0.571 J	0.115 J
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	ug/l	<0.00185 U	<0.00179 U	<0.0357 U	<0.0385 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	ug/l	<0.00185 U	0.00293	<0.0357 U	<0.0385 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	ug/l	<0.00185 U	<0.00179 U	<0.0357 U	<0.0385 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	ug/l	<0.00185 U	<0.00179 U	<0.0357 U	<0.0385 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	ug/l	<0.00185 U	0.0118	0.0653 D	0.189 D
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	ug/l	<0.00185 U	0.0077	0.095 D	0.212 D
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	ug/l	<0.00185 U	0.021	0.0577 D	0.15 D
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	ug/l	<0.00185 U	0.00473	<0.0357 U	0.0765 D
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	ug/l	<0.00185 U	0.00268 J	<0.0357 U	<0.0385 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	NS	0.01	ug/l	<0.00185 U	0.103	0.493 D	0.466 D
Perfluorooctanoic Acid (PFOA)	335-67-1	NS	0.01	ug/l	<0.00185 U	0.0283	0.273 D	0.388 D
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	ug/l	<0.00185 U	0.0222	0.75 J	2.15 J
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	0.1	ug/l	<0.00185 U	<0.00179 U	<0.0357 U	<0.0385 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	0.1	ug/l	<0.00185 U	<0.00179 U	<0.0357 U	<0.0385 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	0.1	ug/l	<0.00185 U	<0.00179 U	<0.0357 U	<0.0385 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FTS)	39108-34-4	NS	0.1	ug/l	<0.00185 U	<0.00179 U	<0.0357 U	<0.0385 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FTS)	27619-97-2	NS	0.1	ug/l	<0.00463 U	<0.00446 U	<0.0893 U	<0.0962 U

Notes provided on Page 5.
Concentrations above NYSDEC SGVs are bolded.
Concentrations above NYSDEC Guidance Values are shaded.

Table 5F
Remedial Investigation Report
Groundwater Sample Analytical Results - Block 1833 (J)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Notes:

CAS - Chemical Abstract Service
NS - No standard
ug/l - microgram per liter
NA - Not analyzed
RL - Reporting limit
<RL - Not detected

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").

Groundwater sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Part 375 Remedial Programs Guidelines for Sampling and Analysis of Per- and Polyfluoroalkyl Substances (PFAS) (January 2021) and the 1,4-Dioxane value reflects the drinking water maximum contaminant level (MCL) adopted by New York State for public water systems (July 2020). Pursuant to Part 375-1.7(f)(2), the NYSDEC will treat the MCL as relevant and appropriate and will consider this value in remedy selection.

The criteria comparison for dissolved total chromium is provided for reference. The promulgated SGVs shown is for hexavalent chromium.

Qualifiers:

D - The concentration reported is a result of a diluted sample.
B - The analyte was found in the associated analysis batch blank.
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.

Exceedance Summary:

10 - Result exceeds NYSDEC SGVs
10 - Result exceeds NYSDEC Guidance Values

Table 5G
Remedial Investigation Report
Groundwater Sample Analytical Results - Block 1820 (K)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC SGVs	NYSDEC Guidance Values	Location	K-MW101	K-MW102	K-MW103	K-MW104	K-MW104	K-MW105
				Sample Name	K-MW101_100721	K-MW102_100621	K-MW103_100621	K-MW104_100621	GWDUP02_100621	K-MW105_100721
				Sample Date	10/7/2021	10/6/2021	10/6/2021	10/6/2021	10/6/2021	10/7/2021
				Unit	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds										
1,1,1,2-Tetrachloroethane	630-20-6	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,1,1-Trichloroethane	71-55-6	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,1,2,2-Tetrachloroethane	79-34-5	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,1,2-Trichloroethane	79-00-5	1	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,1-Dichloroethane	75-34-3	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,1-Dichloroethene	75-35-4	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,2,3-Trichlorobenzene	87-61-6	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,2,3-Trichloropropane	96-18-4	0.04	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,2,4-Trichlorobenzene	120-82-1	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,2,4-Trimethylbenzene	95-63-6	5	NS	ug/l	<0.2 U	<0.2 U	0.44 J	<0.2 U	<0.2 U	<0.2 U
1,2-Dibromo-3-Chloropropane	96-12-8	0.04	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.0006	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,2-Dichlorobenzene	95-50-1	3	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,2-Dichloroethane	107-06-2	0.6	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,2-Dichloropropane	78-87-5	1	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	5	NS	ug/l	<0.2 U	<0.2 U	0.45 J	<0.2 U	<0.2 U	<0.2 U
1,3-Dichlorobenzene	541-73-1	3	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,4-Dichlorobenzene	106-46-7	3	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,4-Dioxane (P-Dioxane)	123-91-1	NS	1	ug/l	<40 U	<40 U	<40 U	<40 UJ	<40 U	<40 U
2-Hexanone (MBK)	591-78-6	50	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Acetone	67-64-1	50	NS	ug/l	1.52 J	1.11 J	6.99	3.11	1.6 J	12.8
Acrolein	107-02-8	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Acrylonitrile	107-13-1	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Benzene	71-43-2	1	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Bromochloromethane	74-97-5	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Bromodichloromethane	75-27-4	50	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Bromoform	75-25-2	50	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Bromomethane	74-83-9	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Carbon Disulfide	75-15-0	60	NS	ug/l	<0.2 U	0.2 J	<0.2 U	0.58	0.61	0.48 J
Carbon Tetrachloride	56-23-5	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Chlorobenzene	108-90-7	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Chloroethane	75-00-3	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Chloroform	67-66-3	7	NS	ug/l	0.54	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Chloromethane	74-87-3	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Cis-1,2-Dichloroethene	156-59-2	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Cis-1,3-Dichloropropene	10061-01-5	0.4	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Cyclohexane	110-82-7	NS	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Dibromochloromethane	124-48-1	50	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Dibromomethane	74-95-3	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Dichlorodifluoromethane	75-71-8	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Ethylbenzene	100-41-4	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Hexachlorobutadiene	87-68-3	0.5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Isopropylbenzene (Cumene)	98-82-8	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
M,P-Xylene	179601-23-1	5	NS	ug/l	NA	<0.5 U	0.69 J	<0.5 U	<0.5 U	NA
Methyl Acetate	79-20-9	NS	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	50	NS	ug/l	<0.2 U	<0.2 U	0.99	<0.2 U	<0.2 U	<0.2 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	ug/l	<0.2 U	<0.2 U	0.4 J	<0.2 U	<0.2 U	<0.2 U
Methylcyclohexane	108-87-2	NS	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Methylene Chloride	75-09-2	5	NS	ug/l	<1 U	1.91 J	<1 U	<1 U	<1 U	<1 U
n-Butylbenzene	104-51-8	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
n-Propylbenzene	103-65-1	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	5	NS	ug/l	<0.2 U	<0.2 U	1.28	<0.2 U	<0.2 U	<0.2 U
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Sec-Butylbenzene	135-98-8	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Styrene	100-42-5	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
T-Butylbenzene	98-06-6	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Tert-Butyl Alcohol	75-65-0	NS	NS	ug/l	<0.5 UJ	4.35 J	6.99 J	4.44 J	4.99 J	4.98 J
Tert-Butyl Methyl Ether	1634-04-4	**10**	NS	ug/l	<0.2 U	2.98	**29**	**28.5**	**29.6**	**19.9**
Tetrachloroethene (PCE)	127-18-4	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Toluene	108-88-3	5	NS	ug/l	<0.2 U	<0.2 U	0.43 J	<0.2 U	<0.2 U	<0.2 U
Total Xylenes	1330-20-7	5	NS	ug/l	NA	<0.6 U	1.97	<0.6 U	<0.6 U	NA
Trans-1,2-Dichloroethene	156-60-5	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Trans-1,3-Dichloropropene	10061-02-6	0.4	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Trichloroethene (TCE)	79-01-6	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Trichlorofluoromethane	75-69-4	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Vinyl Chloride	75-01-4	2	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U

Notes provided on Page 5.
Concentrations above NYSDEC SGVs are bolded.
Concentrations above NYSDEC Guidance Values are shaded.

Table 5G
Remedial Investigation Report
Groundwater Sample Analytical Results - Block 1820 (K)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC SGVs	NYSDEC Guidance Values	Location	K-MW101	K-MW102	K-MW103	K-MW104	K-MW104	K-MW105
				Sample Name	K-MW101_100721	K-MW102_100621	K-MW103_100621	K-MW104_100621	GWDUP02_100621	K-MW105_100721
				Sample Date	10/7/2021	10/6/2021	10/6/2021	10/6/2021	10/6/2021	10/7/2021
				Unit	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds										
1,2,4,5-Tetrachlorobenzene	95-94-3	5	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
1,2-Diphenylhydrazine	122-66-7	0	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
1,4-Dioxane (P-Dioxane)	123-91-1	NS	1	ug/l	<0.3 U	<0.3 U	1.06	<0.3 U	<0.3 U	0.4
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
2,4-Dichlorophenol	120-83-2	1	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 UJ
2,4-Dimethylphenol	105-67-9	1	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
2,4-Dinitrophenol	51-28-5	1	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
2,4-Dinitrotoluene	121-14-2	5	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
2,6-Dinitrotoluene	606-20-2	5	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 UJ
2-Chloronaphthalene	91-58-7	10	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
2-Chlorophenol	95-57-8	NS	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
2-Methylnaphthalene	91-57-6	NS	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
2-Methylphenol (o-Cresol)	95-48-7	NS	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
2-Nitroaniline	88-74-4	5	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
2-Nitrophenol	88-75-5	NS	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	NS	NS	ug/l	NA	<2.63 U	<2.5 U	<2.5 U	<2.56 U	NA
3,3'-Dichlorobenzidine	91-94-1	5	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
3-Nitroaniline	99-09-2	5	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
4-Chloroaniline	106-47-8	5	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
4-Nitroaniline	100-01-6	5	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
4-Nitrophenol	100-02-7	NS	NS	ug/l	<5 U	<5.26 U	<5 U	<5 U	<5.13 U	<5.13 UJ
Acenaphthene	83-32-9	20	NS	ug/l	<0.05 U	<0.0526 U	0.21	<0.05 U	<0.0513 U	<0.0513 U
Acenaphthylene	208-96-8	NS	NS	ug/l	<0.05 U	0.137	0.2	<0.05 U	<0.0513 U	<0.0513 U
Acetophenone	98-86-2	NS	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	5	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
Anthracene	120-12-7	50	NS	ug/l	<0.05 U	<0.0526 U	0.28	0.08	<0.0513 U	<0.0513 U
Atrazine	1912-24-9	7.5	NS	ug/l	<0.5 U	<0.526 U	<0.5 U	<0.5 U	<0.513 U	<0.513 U
Benzaldehyde	100-52-7	NS	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
Benzidine	92-87-5	5	NS	ug/l	<5 U	<5.26 U	<5 U	<5 U	<5.13 U	<5.13 U
Benzo(a)anthracene	56-55-3	0.002	NS	ug/l	<0.05 U	<0.0526 U	<0.05 U	<0.05 U	<0.0513 U	<0.0513 U
Benzo(a)pyrene	50-32-8	0	NS	ug/l	<0.05 U	<0.0526 U	<0.05 U	<0.05 U	<0.0513 U	<0.0513 U
Benzo(b)fluoranthene	205-99-2	0.002	NS	ug/l	<0.05 U	<0.0526 U	<0.05 U	<0.05 U	<0.0513 U	<0.0513 U
Benzo(g,h,i)Perylene	191-24-2	NS	NS	ug/l	<0.05 U	<0.0526 U	<0.05 U	<0.05 U	<0.0513 U	<0.0513 U
Benzo(k)fluoranthene	207-08-9	0.002	NS	ug/l	<0.05 U	<0.0526 U	<0.05 U	<0.05 U	<0.0513 U	<0.0513 U
Benzoic Acid	65-85-0	NS	NS	ug/l	<2.5 U	<2.63 U	4.88 J	<2.5 U	<2.56 U	<2.56 UJ
Benzyl Alcohol	100-51-6	NS	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
Benzyl Butyl Phthalate	85-68-7	50	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
Biphenyl (Diphenyl)	92-52-4	5	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
Bis(2-chloroethoxy) methane	111-91-1	5	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	1	NS	ug/l	<1 U	<1.05 U	<1 U	<1 U	<1.03 U	<1.03 U
Bis(2-chloroisopropyl) ether	108-60-1	5	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
Bis(2-ethylhexyl) phthalate	117-81-7	5	NS	ug/l	<0.5 U	<1.12 U	<0.7 U	2.18 J	<0.954 U	0.646
Caprolactam	105-60-2	NS	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
Carbazole	86-74-8	NS	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
Chrysene	218-01-9	0.002	NS	ug/l	<0.05 U	<0.0526 U	<0.05 U	<0.05 U	<0.0513 U	<0.0513 U
Dibenz(a,h)anthracene	53-70-3	NS	NS	ug/l	<0.05 U	<0.0526 U	<0.05 U	<0.05 U	<0.0513 U	<0.0513 U
Dibenzofuran	132-64-9	NS	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
Dibutyl phthalate	84-74-2	50	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
Diethyl phthalate	84-66-2	50	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
Dimethyl phthalate	131-11-3	50	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
Dioctyl phthalate	117-84-0	50	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
Diphenylamine	122-39-4	5	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
Fluoranthene	206-44-0	50	NS	ug/l	<0.05 U	<0.0526 U	0.27	<0.05 U	<0.0513 U	<0.0513 U
Fluorene	86-73-7	50	NS	ug/l	<0.05 U	0.0526	0.41	<0.05 U	<0.0513 U	<0.0513 U
Hexachlorobenzene	118-74-1	0.04	NS	ug/l	<0.02 U	<0.0211 U	<0.02 U	<0.02 U	<0.0205 U	<0.0205 U
Hexachlorobutadiene	87-68-3	0.5	NS	ug/l	<0.5 U	<0.526 U	<0.5 U	<0.5 U	<0.513 U	<0.513 U
Hexachlorocyclopentadiene	77-47-4	5	NS	ug/l	<5 UJ	<5.26 UJ	<5 UJ	<5 UJ	<5.13 UJ	<5.13 UJ
Hexachloroethane	67-72-1	5	NS	ug/l	<0.5 U	<0.526 U	<0.5 U	<0.5 U	<0.513 U	<0.513 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	NS	ug/l	<0.05 U	<0.0526 U	<0.05 U	<0.05 U	<0.0513 U	<0.0513 U
Isophorone	78-59-1	50	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
Naphthalene	91-20-3	10	NS	ug/l	<0.05 U	4.15	6.5 D	<0.05 U	<0.0513 U	<0.0513 U
Nitrobenzene	98-95-3	0.4	NS	ug/l	<0.25 U	<0.263 U	<0.25 U	<0.25 U	<0.256 U	<0.256 U
n-Nitrosodimethylamine	62-75-9	NS	NS	ug/l	<0.5 UJ	<0.526 U	<0.5 U	<0.5 U	<0.513 U	<0.513 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
n-Nitrosodiphenylamine	86-30-6	50	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
Pentachlorophenol	87-86-5	1	NS	ug/l	<0.25 U	<0.263 U	<0.25 U	<0.25 U	<0.256 U	<0.256 U
Phenanthrene	85-01-8	50	NS	ug/l	<0.05 U	0.0737	1.15	<0.05 U	<0.0513 U	<0.0513 U
Phenol	108-95-2	1	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U
Pyrene	129-00-0	50	NS	ug/l	<0.05 U	0.0526	0.19	<0.05 U	<0.0513 U	<0.0513 U
Pyridine	110-86-1	50	NS	ug/l	<2.5 U	<2.63 U	<2.5 U	<2.5 U	<2.56 U	<2.56 U

Notes provided on Page 5.
Concentrations above NYSDEC SGVs are bolded.
Concentrations above NYSDEC Guidance Values are shaded.

Table 5G
Remedial Investigation Report
Groundwater Sample Analytical Results - Block 1820 (K)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC SGVs	NYSDEC Guidance Values	Location	K-MW101	K-MW102	K-MW103	K-MW104	K-MW104	K-MW105
				Sample Name	K-MW101_100721	K-MW102_100621	K-MW103_100621	K-MW104_100621	GWDUP02_100621	K-MW105_100721
				Sample Date	10/7/2021	10/6/2021	10/6/2021	10/6/2021	10/6/2021	10/7/2021
				Unit	Result	Result	Result	Result	Result	Result
Pesticides										
4,4'-DDD	72-54-8	0.3	NS	ug/l	<0.004 U	<0.0041 U	<0.0041 U	<0.0041 U	<0.00421 U	<0.0041 U
4,4'-DDE	72-55-9	0.2	NS	ug/l	<0.004 U	<0.0041 U	<0.0041 U	<0.0041 U	<0.00421 U	<0.0041 U
4,4'-DDT	50-29-3	0.2	NS	ug/l	<0.004 U	<0.0041 U	<0.0041 U	<0.0041 U	<0.00421 U	<0.0041 U
Aldrin	309-00-2	0	NS	ug/l	<0.004 U	<0.0041 U	<0.0041 U	<0.0041 U	<0.00421 U	<0.0041 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.01	NS	ug/l	<0.004 U	<0.0041 U	<0.0041 U	<0.0041 U	<0.00421 U	<0.0041 U
Alpha Chlordane	5103-71-9	NS	NS	ug/l	<0.004 U	<0.0041 U	<0.0041 U	<0.0041 U	<0.00421 U	<0.0041 U
Alpha Endosulfan	959-98-8	NS	NS	ug/l	<0.004 U	<0.0041 U	<0.0041 U	<0.0041 U	<0.00421 U	<0.0041 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.04	NS	ug/l	<0.004 U	<0.0041 U	<0.0041 U	<0.0041 U	<0.00421 U	<0.0041 U
Beta Endosulfan	33213-65-9	NS	NS	ug/l	<0.004 U	<0.0041 U	<0.0041 U	<0.0041 U	<0.00421 U	<0.0041 U
Chlordane (alpha and gamma)	57-74-9	0.05	NS	ug/l	<0.2 U	<0.205 U	<0.205 U	<0.205 U	<0.211 U	<0.205 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	NS	ug/l	<0.004 U	<0.0041 U	<0.0041 U	<0.0041 U	<0.00421 U	<0.0041 U
Dieldrin	60-57-1	0.004	NS	ug/l	<0.002 U	<0.00205 U	<0.00205 U	<0.00205 U	<0.00211 U	<0.00205 U
Endosulfan Sulfate	1031-07-8	NS	NS	ug/l	<0.004 U	<0.0041 U	<0.0041 U	<0.0041 U	<0.00421 U	<0.0041 U
Endrin	72-20-8	0	NS	ug/l	<0.004 U	<0.0041 U	<0.0041 U	<0.0041 U	<0.00421 U	<0.0041 U
Endrin Aldehyde	7421-93-4	5	NS	ug/l	<0.01 U	<0.0103 U	<0.0103 U	<0.0103 U	<0.0105 U	<0.0103 U
Endrin Ketone	53494-70-5	5	NS	ug/l	<0.01 U	<0.0103 U	<0.0103 U	<0.0103 U	<0.0105 U	<0.0103 U
Gamma Bhc (Lindane)	58-89-9	0.05	NS	ug/l	<0.004 U	<0.0041 U	<0.0041 U	<0.0041 U	<0.00421 U	<0.0041 U
Gamma-Chlordane	5566-34-7	NS	NS	ug/l	<0.01 U	<0.0103 U	<0.0103 U	<0.0103 U	<0.0105 U	<0.0103 U
Heptachlor	76-44-8	0.04	NS	ug/l	<0.004 U	<0.0041 U	<0.0041 U	<0.0041 U	<0.00421 U	<0.0041 U
Heptachlor Epoxide	1024-57-3	0.03	NS	ug/l	<0.004 U	<0.0041 U	<0.0041 U	<0.0041 U	<0.00421 U	<0.0041 U
Methoxychlor	72-43-5	35	NS	ug/l	<0.004 U	<0.0041 U	<0.0041 U	<0.0041 U	<0.00421 U	<0.0041 U
Toxaphene	8001-35-2	0.06	NS	ug/l	<0.1 U	<0.103 U	<0.103 U	<0.103 U	<0.105 U	<0.103 U
Polychlorinated Biphenyl										
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	ug/l	<0.05 U	<0.0513 U	<0.0513 U	<0.0513 U	<0.0526 U	<0.0513 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	ug/l	<0.05 U	<0.0513 U	<0.0513 U	<0.0513 U	<0.0526 U	<0.0513 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	ug/l	<0.05 U	<0.0513 U	<0.0513 U	<0.0513 U	<0.0526 U	<0.0513 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	ug/l	<0.05 U	<0.0513 U	<0.0513 U	<0.0513 U	<0.0526 U	<0.0513 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	ug/l	<0.05 U	<0.0513 U	<0.0513 U	<0.0513 U	<0.0526 U	<0.0513 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	ug/l	<0.05 U	<0.0513 U	<0.0513 U	<0.0513 U	<0.0526 U	<0.0513 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	ug/l	<0.05 U	<0.0513 U	<0.0513 U	<0.0513 U	<0.0526 U	<0.0513 U
Total PCBs	1336-36-3	0.09	NS	ug/l	<0.05 U	<0.0513 U	<0.0513 U	<0.0513 U	<0.0526 U	<0.0513 U
Metals - Dissolved										
Aluminum	7429-90-5	NS	NS	ug/l	<100 U	74.4	<55.6 U	60.2	102	140
Antimony	7440-36-0	3	NS	ug/l	<2 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<16.7 U
Arsenic	7440-38-2	25	NS	ug/l	<2 U	<1.11 U	<1.11 U	2.13	2.49	<16.7 U
Barium	7440-39-3	1000	NS	ug/l	<50 U	140	182	331	395	<41.7 U
Beryllium	7440-41-7	3	NS	ug/l	<0.6 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<5 U
Cadmium	7440-43-9	5	NS	ug/l	<1 UJ	<0.556 UJ	<0.556 UJ	<0.556 UJ	<0.556 UJ	<8.33 UJ
Calcium	7440-70-2	NS	NS	ug/l	27,400	72,300	89,600	95,100	97,800	178,000
Chromium, Total	7440-47-3	50	NS	ug/l	<10 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<8.33 U
Cobalt	7440-48-4	NS	NS	ug/l	<8 U	<4.44 U	6.58	<4.44 U	<4.44 U	<6.67 U
Copper	7440-50-8	200	NS	ug/l	<40 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U	<33.3 U
Iron	7439-89-6	**300**	NS	ug/l	<500 U	**593**	**1,220**	**11,500 J**	**22,800 J**	**588**
Lead	7439-92-1	25	NS	ug/l	<10 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<8.33 U
Magnesium	7439-95-4	**35000**	NS	ug/l	2,160	8,960	12,400	21,300	21,400	**165,000**
Manganese	7439-96-5	**300**	NS	ug/l	199	**5,470**	**3,280**	**1,060**	**1,110**	**12,200**
Mercury	7439-97-6	0.7	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Nickel	7440-02-0	100	NS	ug/l	<20 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<16.7 U
Potassium	7440-09-7	NS	NS	ug/l	1,510	12,500	15,700	17,600	18,900	71,500
Selenium	7782-49-2	10	NS	ug/l	<2 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<16.7 U
Silver	7440-22-4	50	NS	ug/l	<10 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<8.33 U
Sodium	7440-23-5	**20000**	NS	ug/l	5,130	**33,800**	**31,700**	**139,000**	**141,000**	**1,070,000**
Thallium	7440-28-0	0.5	NS	ug/l	<2 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<16.7 U
Vanadium	7440-62-2	NS	NS	ug/l	<20 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<16.7 U
Zinc	7440-66-6	2000	NS	ug/l	<50 U	<27.8 U	<27.8 U	<27.8 U	<27.8 U	<41.7 U
Metals - Total										
Aluminum	7429-90-5	NS	NS	ug/l	<55.6 U	<55.6 U	<55.6 U	<55.6 U	<55.6 U	99.1
Antimony	7440-36-0	3	NS	ug/l	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<11.1 U
Arsenic	7440-38-2	25	NS	ug/l	<1.11 U	<1.11 U	<1.11 U	3.29	2.79	<11.1 U
Barium	7440-39-3	1000	NS	ug/l	42.3	139	194	432	434	<27.8 U
Beryllium	7440-41-7	3	NS	ug/l	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<3.33 U
Cadmium	7440-43-9	5	NS	ug/l	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<5.56 U
Calcium	7440-70-2	NS	NS	ug/l	29,000 B	71,200 B	91,900 B	99,100 B	98,800 B	190,000 B
Chromium, Hexavalent	18540-29-9	50	NS	ug/l	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U
Chromium, Total	7440-47-3	NS	NS	ug/l	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	8.5
Chromium, Trivalent	16065-83-1	NS	NS	ug/l	NA	<10 U	<10 U	<10 U	<10 U	NA
Cobalt	7440-48-4	NS	NS	ug/l	<4.44 U	<4.44 U	6.76	4.48	<4.44 U	<4.44 U
Copper	7440-50-8	200	NS	ug/l	<22.2 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U
Cyanide	57-12-5	200	NS	ug/l	<10 U	<10 U	<10 U	21.5	23.2	19.5
Iron	7439-89-6	**300**	NS	ug/l	<278 U	**595**	**2,310**	**30,900**	**30,600**	**4,770**
Lead	7439-92-1	25	NS	ug/l	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U
Magnesium	7439-95-4	**35000**	NS	ug/l	2,120	8,810	12,500	22,000	21,800	**164,000**
Manganese	7439-96-5	**300**	NS	ug/l	214	**5,410**	**3,380**	**1,150**	**1,160**	**12,800**
Mercury	7439-97-6	0.7	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	0.3
Nickel	7440-02-0	100	NS	ug/l	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U
Potassium	7440-09-7	NS	NS	ug/l	1,510	12,500	16,400	19,400	19,300	72,100
Selenium	7782-49-2	10	NS	ug/l	<1.11 U	<1.11 U	<1.11 U	1.37	<1.11 U	<11.1 U
Silver	7440-22-4	50	NS	ug/l	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U
Sodium	7440-23-5	**20000**	NS	ug/l	5,140	**34,000**	**33,000**	**145,000**	**143,000**	**1,070,000**
Thallium	7440-28-0	0.5	NS	ug/l	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<11.1 U
Vanadium	7440-62-2	NS	NS	ug/l	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U
Zinc	7440-66-6	2000	NS	ug/l	<27.8 U	<27.8 U	<27.8 U	<27.8 U	<27.8 U	<27.8 U

Notes provided on Page 5.
Concentrations above NYSDEC SGVs are bolded.
Concentrations above NYSDEC Guidance Values are shaded.

Table 5G
Remedial Investigation Report
Groundwater Sample Analytical Results - Block 1820 (K)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	NYSDEC SGVs	NYSDEC Guidance Values	Location	K-MW101	K-MW102	K-MW103	K-MW104	K-MW104	K-MW105
				Sample Name	K-MW101_100721	K-MW102_100621	K-MW103_100621	K-MW104_100621	GWDUP02_100621	K-MW105_100721
				Sample Date	10/7/2021	10/6/2021	10/6/2021	10/6/2021	10/6/2021	10/7/2021
				Unit	Result	Result	Result	Result	Result	Result
Perfluorooctanoic acids										
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	NS	ug/l	<0.00179 U	<0.00179 U	<0.00185 U	<0.00185 U	<0.00179 U	<0.00185 U
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	NS	NS	ug/l	<0.00179 U	<0.00179 U	<0.00185 U	<0.00185 U	<0.00179 U	<0.00185 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	ug/l	<0.00179 U	0.00393	0.00652	0.0116 J	<0.00179 UJ	0.0095
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	ug/l	0.00227	0.00724	0.0076	0.0156 J	0.00324 J	0.0118
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	ug/l	<0.00179 U	<0.00179 U	<0.00185 U	<0.00185 U	<0.00179 U	<0.00185 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	ug/l	<0.00179 U	0.00199	<0.00185 U	<0.00185 U	0.00189	<0.00185 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	ug/l	<0.00179 U	<0.00179 U	<0.00185 U	<0.00185 U	<0.00179 U	<0.00185 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	ug/l	<0.00179 U	<0.00179 U	<0.00185 U	0.00248	<0.00179 U	<0.00185 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	ug/l	0.00391	0.00473	0.00712	0.0123 J	0.00291 J	0.014
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	ug/l	<0.00179 U	0.00392	0.00428	0.0193 J	0.00222 J	0.0118
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	ug/l	<0.00179 U	0.00505	0.00709	0.013 J	0.00287 J	0.0204 J
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	ug/l	<0.00179 U	<0.00179 U	<0.00185 U	0.00714 J	0.0026 J	<0.00185 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	ug/l	<0.00179 U	<0.00179 UJ	<0.00185 UJ	<0.00185 UJ	0.00888 J	<0.00185 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	NS	0.01	ug/l	0.00276	0.0444	0.0262	0.0989	0.0734	0.0166
Perfluorooctanoic Acid (PFOA)	335-67-1	NS	0.01	ug/l	0.00386	0.0165	0.0179	0.0638 J	0.00766 J	0.0616
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	ug/l	<0.00179 U	0.00346	0.012	0.0156 J	0.00807 J	0.0159
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	ug/l	<0.00179 U	<0.00179 U	<0.00185 U	<0.00185 U	<0.00179 U	<0.00185 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	ug/l	<0.00179 U	<0.00179 U	<0.00185 U	<0.00185 U	<0.00179 U	<0.00185 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	ug/l	<0.00179 U	<0.00179 U	<0.00185 U	<0.00185 U	<0.00179 U	<0.00185 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FTS)	39108-34-4	NS	NS	ug/l	<0.00179 U	<0.00179 U	<0.00185 U	<0.00185 U	<0.00179 U	<0.00185 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FTS)	27619-97-2	NS	NS	ug/l	<0.00446 UJ	<0.00446 U	<0.00463 U	<0.00463 U	<0.00446 UJ	<0.00463 UJ

Notes provided on Page 5.
Concentrations above NYSDEC SGVs are bolded.
Concentrations above NYSDEC Guidance Values are shaded.

Table 5G
Remedial Investigation Report
Groundwater Sample Analytical Results - Block 1820 (K)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Notes:
CAS - Chemical Abstract Service
NS - No standard
ug/l - microgram per liter
NA - Not analyzed
RL - Reporting limit
<RL - Not detected
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").

Groundwater sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Part 375 Remedial Programs Guidelines for Sampling and Analysis of Per- and Polyfluoroalkyl Substances (PFAS) (January 2021) and the 1,4-Dioxane value reflects the drinking water maximum contaminant level (MCL) adopted by New York State for public water systems (July 2020). Pursuant to Part 375-1.7(f)(2), the NYSDEC will treat the MCL as relevant and appropriate and will consider this value in remedy selection.

The criteria comparison for dissolved total chromium is provided for reference. The promulgated SGVs shown is for hexavalent chromium.

Qualifiers:
D - The concentration reported is a result of a diluted sample.
B - The analyte was found in the associated analysis batch blank.
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
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.

Exceedance Summary:

10	- Result exceeds NYSDEC SGVs
10	- Result exceeds NYSDEC Guidance Values

Table 6A
Remedial Investigation Report
Soil Vapor Sample Analytical Results - Block 1826/1827 (E)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	Location	E-AA01	E-SV101	E-SV102	E-SV103	E-SV104	E-SV115
		Sample Name	E-AA01_091521	E-SV101_091521	E-SV102_091521	E-SV103_091521	E-SV104_091521	E-SV115_091521
		Sample Date	9/15/2021	9/15/2021	9/15/2021	9/15/2021	9/15/2021	9/15/2021
		Sample Type	AA	SV	SV	SV	SV	SV
		Unit	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	630-20-6	ug/m3	<0.6 U	<1.1 U	<2.4 U	<2.3 U	<56 U	<1.1 U
1,1,1-Trichloroethane	71-55-6	ug/m3	<0.47 U	<0.88 U	<1.9 U	<1.8 U	<44 U	<0.91 U
1,1,2,2-Tetrachloroethane	79-34-5	ug/m3	<0.6 U	<1.1 U	<2.4 U	<2.3 U	<56 U	<1.1 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	ug/m3	<0.67 U	<1.2 U	<2.7 U	<2.6 U	<62 U	<1.3 U
1,1,2-Trichloroethane	79-00-5	ug/m3	<0.47 U	<0.88 U	<1.9 U	<1.8 U	<44 U	<0.91 U
1,1-Dichloroethane	75-34-3	ug/m3	<0.35 U	<0.66 U	<1.4 U	<1.4 U	<33 U	<0.67 U
1,1-Dichloroethene	75-35-4	ug/m3	<0.086 U	<0.16 U	<0.35 U	<0.33 U	<8 U	<0.16 U
1,2,4-Trichlorobenzene	120-82-1	ug/m3	<0.65 U	<1.2 U	<2.6 U	<2.5 U	<60 U	<1.2 U
1,2,4-Trimethylbenzene	95-63-6	ug/m3	1.8 D	18 D	18 D	160 D	64 D	11 D
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/m3	<0.67 U	<1.2 U	<2.7 U	<2.6 U	<62 U	<1.3 U
1,2-Dichlorobenzene	95-50-1	ug/m3	<0.52 U	<0.97 U	<2.1 U	<2 U	<49 U	<1 U
1,2-Dichloroethane	107-06-2	ug/m3	<0.35 U	<0.66 U	<1.4 U	4.6 D	<33 U	<0.67 U
1,2-Dichloropropane	78-87-5	ug/m3	<0.4 U	<0.75 U	<1.6 U	<1.6 U	<37 U	<0.77 U
1,2-Dichlorotetrafluoroethane	76-14-2	ug/m3	<0.61 U	<1.1 U	<2.5 U	<2.3 U	<57 U	<1.2 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/m3	0.56 D	8.6 D	15 D	210 D	40 D	3.9 D
1,3-Butadiene	106-99-0	ug/m3	<0.58 U	<1.1 U	<2.4 U	<2.2 U	<54 U	<1.1 U
1,3-Dichlorobenzene	541-73-1	ug/m3	<0.52 U	<0.97 U	<2.1 U	<2 U	<49 U	<1 U
1,3-Dichloropropane	142-28-9	ug/m3	<0.4 U	<0.75 U	<1.6 U	<1.6 U	<37 U	<0.77 U
1,4-Dichlorobenzene	106-46-7	ug/m3	<0.52 U	<0.97 U	<2.1 U	<2 U	<49 U	<1 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/m3	<0.63 U	<1.2 U	<2.6 U	<2.4 U	<58 U	<1.2 U
2-Hexanone (MBK)	591-78-6	ug/m3	<0.71 U	<1.3 U	<2.9 U	<2.8 U	<66 U	<1.4 U
4-Ethyltoluene	622-96-8	ug/m3	1.8 D	14 D	16 D	350 D	56 D	5.9 D
Acetone	67-64-1	ug/m3	18 D	66 D	88 D	440 D	330 D	100 D
Acrylonitrile	107-13-1	ug/m3	<0.19 U	<0.35 U	<0.77 U	<0.73 U	<18 U	<0.36 U
Allyl Chloride (3-Chloropropene)	107-05-1	ug/m3	<1.4 U	<2.5 U	<5.6 U	<5.3 U	<130 U	<2.6 U
Benzene	71-43-2	ug/m3	0.33 D	1.8 D	11 D	67 D	170 D	12 D
Benzyl Chloride	100-44-7	ug/m3	<0.45 U	<0.84 U	<1.8 U	<1.7 U	<42 U	<0.86 U
Bromodichloromethane	75-27-4	ug/m3	<0.58 U	<1.1 U	<2.4 U	<2.3 U	<54 U	1.7 D
Bromoethene	593-60-2	ug/m3	<0.38 U	<0.71 U	<1.6 U	<1.5 U	<35 U	<0.73 U
Bromoform	75-25-2	ug/m3	<0.9 U	<1.7 U	<3.7 U	<3.5 U	<84 U	<1.7 U
Bromomethane	74-83-9	ug/m3	<0.34 U	<0.63 U	1.4 D	3.3 D	<31 U	<0.64 U
Carbon Disulfide	75-15-0	ug/m3	<0.27 U	19 D	100 D	15 D	66 D	15 D
Carbon Tetrachloride	56-23-5	ug/m3	0.33 D	0.31 D	<0.56 U	<0.53 U	<13 U	<0.26 U
Chlorobenzene	108-90-7	ug/m3	<0.4 U	<0.75 U	<1.6 U	<1.5 U	<37 U	<0.76 U
Chloroethane	75-00-3	ug/m3	<0.23 U	<0.43 U	<0.94 U	<0.89 U	<21 U	<0.44 U
Chloroform	67-66-3	ug/m3	<0.42 U	16 D	<1.7 U	<1.6 U	<40 U	27 D
Chloromethane	74-87-3	ug/m3	1.1 D	0.64 D	4.5 D	1.1 D	<17 U	0.48 D
Cis-1,2-Dichloroethene	156-59-2	ug/m3	<0.086 U	<0.16 U	<0.35 U	<0.33 U	<8 U	8.1 D
Cis-1,3-Dichloropropene	10061-01-5	ug/m3	<0.39 U	<0.74 U	<1.6 U	<1.5 U	<37 U	<0.75 U
Cyclohexane	110-82-7	ug/m3	<0.3 U	16 D	1800 D	520 D	4400 D	29 D
Dibromochloromethane	124-48-1	ug/m3	<0.74 U	<1.4 U	<3 U	<2.9 U	<69 U	<1.4 U
Dichlorodifluoromethane	75-71-8	ug/m3	1.8 D	1.9 D	12 D	2.0 D	<40 U	7.5 D
Ethyl Acetate	141-78-6	ug/m3	<0.63 U	<1.2 U	<2.6 U	<2.4 U	<58 U	<1.2 U
Ethylbenzene	100-41-4	ug/m3	<0.38 U	6.0 D	31 D	160 D	67 D	4.1 D
Hexachlorobutadiene	87-68-3	ug/m3	<0.93 U	<1.7 U	<3.8 U	<3.6 U	<86 U	<1.8 U
Isopropanol	67-63-0	ug/m3	1.5 BD	2.8 BD	2.9 BD	8.3 BD	<60 U	15 BD
M,P-Xylene	179601-23-1	ug/m3	1.4 D	18 D	50 D	380 D	120 D	11 D
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/m3	1.5 D	4.7 D	3.8 D	36 D	<24 U	4.1 D
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone	108-10-1	ug/m3	0.36 D	<0.66 U	<1.5 U	680 D	<33 U	<0.68 U
Methyl Methacrylate	80-62-6	ug/m3	<0.36 U	<0.66 U	<1.5 U	<1.4 U	<33 U	<0.68 U
Methylene Chloride	75-09-2	ug/m3	<0.6 U	1.9 D	<2.5 U	6.3 D	<56 U	<1.2 U
n-Heptane	142-82-5	ug/m3	<0.36 U	<0.66 U	<1.5 U	1200 D	1100 D	2.9 D
n-Hexane	110-54-3	ug/m3	<0.31 U	6.6 D	19 D	850 D	4600 D	11 D
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/m3	0.68 D	14 D	22 D	560 D	39 D	3.7 D
Propylene	115-07-1	ug/m3	<0.15 U	<0.28 U	<0.61 U	200 D	<14 U	<0.29 U
Styrene	100-42-5	ug/m3	<0.37 U	1.1 D	<1.5 U	20 D	<35 U	0.78 D
Tert-Butyl Methyl Ether	1634-04-4	ug/m3	<0.31 U	17 D	910 D	330 D	<29 U	<0.6 U
Tetrachloroethene (PCE)	127-18-4	ug/m3	<0.59 U	2.0 D	15 D	<2.3 U	<55 U	38 D
Tetrahydrofuran	109-99-9	ug/m3	<0.51 U	<0.96 U	<2.1 U	<2 U	<48 U	<0.98 U
Toluene	108-88-3	ug/m3	0.98 D	7.9 D	7.0 D	200 D	89 D	5.8 D
Trans-1,2-Dichloroethene	156-60-5	ug/m3	<0.34 U	<0.64 U	<1.4 U	<1.3 U	<32 U	1.1 D
Trans-1,3-Dichloropropene	10061-02-6	ug/m3	<0.39 U	<0.74 U	<1.6 U	<1.5 U	<37 U	<0.75 U
Trichloroethene (TCE)	79-01-6	ug/m3	<0.12 U	0.87 D	<0.48 U	<0.45 U	<11 U	26 D
Trichlorofluoromethane	75-69-4	ug/m3	0.88 D	1.1 D	2.2 D	<1.9 U	<46 U	2.0 D
Vinyl Acetate	108-05-4	ug/m3	<0.31 U	<0.57 U	<1.3 U	<1.2 U	<29 U	<0.58 U
Vinyl Chloride	75-01-4	ug/m3	<0.11 U	<0.21 U	1.7 D	<0.43 U	<10 U	0.21 D
General Chemistry								
Methane	74-82-8	ppmV	NA	NA	NA	NA	56.9 D	NA

Table 6A
Remedial Investigation Report
Soil Vapor Sample Analytical Results - Block 1826/1827 (E)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Notes:
AA - Ambient Air
SV - Soil Vapor
CAS - Chemical Abstract Service
NS - No standard
ug/m3 - microgram per cubic meter
ppmV - parts per million Volume
NA - Not analyzed
RL - Reporting limit
<RL - Not detected
Ambient air sample analytical results are shown for reference only.

Qualifiers:
D - The concentration reported is a result of a diluted sample.
B - The analyte was found in the associated analysis batch blank.
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 6B
Remedial Investigation Report
Soil Vapor Sample Analytical Results - Block 1825 (F)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	Location	F-SV101	F-SV102	F-SV103	F-SV104	F-SV105	F-SV107	F-SV108	F-SV109	F-SV110
		Sample Name	F-SV101_092221	F-SV102_092221	F-SV103_092221	F-SV104_092221	F-SV105_092221	F-SV107_092221	F-SV108_092221	F-SV109_092221	F-SV110_092221
		Sample Date	9/22/2021	9/22/2021	9/22/2021	9/22/2021	9/22/2021	9/22/2021	9/22/2021	9/22/2021	9/22/2021
		Sample Type	SV	SV	SV	SV	SV	SV	SV	SV	SV
		Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds											
1,1,1,2-Tetrachloroethane	630-20-6	ug/m3	<11 U	<1.1 U	<1.1 U	<1.1 U	<1.1 U	<1.1 U	<1.1 U	<1.1 U	<19 U
1,1,1-Trichloroethane	71-55-6	ug/m3	<8.4 U	<0.9 U	<0.91 U	<0.89 U	<0.89 U	2.2 D	<0.88 U	<0.88 U	<15 U
1,1,2,2-Tetrachloroethane	79-34-5	ug/m3	<11 U	<1.1 U	<1.1 U	<1.1 U	<1.1 U	<1.1 U	<1.1 U	<1.1 U	<19 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	ug/m3	<12 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.2 U	<1.2 U	<1.2 U	<21 U
1,1,2-Trichloroethane	79-00-5	ug/m3	<8.4 U	<0.9 U	<0.91 U	<0.89 U	<0.89 U	<0.86 U	<0.88 U	<0.88 U	<15 U
1,1-Dichloroethane	75-34-3	ug/m3	<6.2 U	<0.67 U	<0.67 U	<0.66 U	<0.66 U	<0.63 U	<0.65 U	<0.65 U	<11 U
1,1-Dichloroethene	75-35-4	ug/m3	<1.5 U	<0.16 U	<0.16 U	<0.16 U	<0.16 U	<0.16 U	<0.16 U	<0.16 U	<2.7 U
1,2,4-Trichlorobenzene	120-82-1	ug/m3	<11 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<20 U
1,2,4-Trimethylbenzene	95-63-6	ug/m3	<7.6 U	14 D	3.2 D	7.3 D	5.2 D	12 D	18 D	10 D	430 D
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/m3	<12 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.2 U	<1.2 U	<1.2 U	<21 U
1,2-Dichlorobenzene	95-50-1	ug/m3	<9.3 U	<0.99 U	<1 U	<0.99 U	<0.99 U	<0.94 U	<0.97 U	<0.97 U	<16 U
1,2-Dichloroethane	107-06-2	ug/m3	<6.2 U	<0.67 U	<0.67 U	<0.66 U	<0.66 U	<0.63 U	<0.65 U	<0.65 U	<11 U
1,2-Dichloropropane	78-87-5	ug/m3	<7.1 U	<0.76 U	<0.77 U	<0.76 U	<0.76 U	<0.72 U	<0.74 U	<0.75 U	<13 U
1,2-Dichlorotetrafluoroethane	76-14-2	ug/m3	<11 U	<1.2 U	<1.2 U	<1.1 U	<1.1 U	<1.1 U	<1.1 U	<1.1 U	<19 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/m3	<7.6 U	7.3 D	1.6 D	2.4 D	1.7 D	3.5 D	6.2 D	4.9 D	590 D
1,3-Butadiene	106-99-0	ug/m3	<10 U	<1.1 U	<1.1 U	<1.1 U	<1.1 U	<1 U	<1.1 U	<1.1 U	<18 U
1,3-Dichlorobenzene	541-73-1	ug/m3	<9.3 U	<0.99 U	<1 U	<0.99 U	<0.99 U	<0.94 U	<0.97 U	<0.97 U	<16 U
1,3-Dichloropropane	142-28-9	ug/m3	<7.1 U	<0.76 U	<0.77 U	<0.76 U	<0.76 U	<0.72 U	<0.74 U	<0.75 U	<13 U
1,4-Dichlorobenzene	106-46-7	ug/m3	<9.3 U	<0.99 U	<1 U	<0.99 U	<0.99 U	<0.94 U	<0.97 U	<0.97 U	<16 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/m3	<11 U	6.6 D	<1.2 U	<1.2 U	2.5 D	<1.1 U	<1.2 U	1.3 D	<20 U
2-Hexanone (MBK)	591-78-6	ug/m3	<13 U	3.5 D	1.6 D	<1.3 U	2.8 D	<1.3 U	<1.3 U	9.5 D	<22 U
4-Ethyltoluene	622-96-8	ug/m3	<7.6 U	16 D	4.5 D	3.7 D	3.3 D	6.7 D	10 D	8.9 D	950 D
Acetone	67-64-1	ug/m3	200 D	170 D	170 D	37 D	150 D	79 D	290 D	390 D	630 D
Acrylonitrile	107-13-1	ug/m3	<3.3 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U	<0.34 U	<0.35 U	<0.35 U	<5.9 U
Allyl Chloride (3-Chloropropene)	107-05-1	ug/m3	<24 U	<2.6 U	<2.6 U	<2.6 U	<2.6 U	<2.5 U	<2.5 U	<2.5 U	<43 U
Benzene	71-43-2	ug/m3	44 D	9.5 D	6.9 D	2.6 D	1.6 D	1.7 D	5.9 D	5.4 D	4300 D
Benzyl Chloride	100-44-7	ug/m3	<8 U	<0.86 U	<0.86 U	<0.85 U	<0.85 U	<0.81 U	<0.83 U	<0.84 U	<14 U
Bromodichloromethane	75-27-4	ug/m3	<10 U	<1.1 U	<1.1 U	<1.1 U	<1.1 U	<1 U	<1.1 U	<1.1 U	<18 U
Bromoethene	593-60-2	ug/m3	<6.7 U	<0.72 U	<0.73 U	<0.72 U	<0.72 U	<0.69 U	<0.7 U	<0.71 U	<12 U
Bromoform	75-25-2	ug/m3	<16 U	<1.7 U	<1.7 U	<1.7 U	<1.7 U	<1.6 U	<1.7 U	<1.7 U	<28 U
Bromomethane	74-83-9	ug/m3	<6 U	<0.64 U	<0.65 U	<0.64 U	<0.64 U	<0.61 U	<0.62 U	<0.63 U	<11 U
Carbon Disulfide	75-15-0	ug/m3	12 D	7.5 D	56 D	34 D	11 D	8.7 D	12 D	13 D	<8.5 U
Carbon Tetrachloride	56-23-5	ug/m3	<2.4 U	<0.26 U	0.31 D	<0.26 U	0.82 D	<0.25 U	<0.25 U	0.31 D	<4.3 U
Chlorobenzene	108-90-7	ug/m3	<7.1 U	<0.76 U	<0.77 U	<0.76 U	<0.75 U	<0.72 U	<0.74 U	<0.74 U	<13 U
Chloroethane	75-00-3	ug/m3	<4.1 U	<0.44 U	<0.44 U	<0.43 U	<0.43 U	<0.41 U	<0.42 U	<0.43 U	<7.2 U
Chloroform	67-66-3	ug/m3	<7.5 U	54 D	<0.81 U	<0.8 U	4.1 D	<0.77 U	<0.79 U	1.2 D	<13 U
Chloromethane	74-87-3	ug/m3	<3.2 U	<0.34 U	1.0 D	<0.34 U	<0.34 U	<0.32 U	<0.33 U	<0.33 U	<5.6 U
Cis-1,2-Dichloroethene	156-59-2	ug/m3	<1.5 U	<0.16 U	0.53 D	0.52 D	<0.16 U	0.25 D	1.7 D	<0.16 U	<2.7 U
Cis-1,3-Dichloropropene	10061-01-5	ug/m3	<7 U	<0.75 U	<0.76 U	<0.74 U	<0.74 U	<0.71 U	<0.73 U	<0.73 U	<12 U
Cyclohexane	110-82-7	ug/m3	110 D	8.5 D	1.9 D	12 D	1.0 D	0.81 D	23 D	1.8 D	27000 D
Dibromochloromethane	124-48-1	ug/m3	<13 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.3 U	<1.4 U	<1.4 U	<23 U
Dichlorodifluoromethane	75-71-8	ug/m3	<7.6 U	2.2 D	1.8 D	<0.81 U	2.2 D	1.7 D	2.0 D	1.9 D	<13 U
Ethyl Acetate	141-78-6	ug/m3	<11 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.1 U	<1.2 U	<1.2 U	<20 U
Ethylbenzene	100-41-4	ug/m3	7.4 D	5.8 D	2.7 D	1.6 D	0.85 D	1.0 D	2.2 D	4.2 D	1400 D
Hexachlorobutadiene	87-68-3	ug/m3	<16 U	<1.8 U	<1.8 U	<1.7 U	<1.7 U	<1.7 U	<1.7 U	<1.7 U	<29 U
Isopropanol	67-63-0	ug/m3	13 D	9.2 D	8.7 D	3.2 D	3.0 D	4.2 D	9.1 D	5.7 D	28 D
M,P-Xylene	179601-23-1	ug/m3	14 D	19 D	7.9 D	3.8 D	3.3 D	4.6 D	8.5 D	16 D	8100 D
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/m3	34 D	23 D	20 D	1.8 D	26 D	5.7 D	8.9 D	45 D	<8 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone	108-10-1	ug/m3	<6.3 U	3.0 D	2.8 D	<0.67 U	2.1 D	1.5 D	<0.66 U	20 D	<11 U
Methyl Methacrylate	80-62-6	ug/m3	<6.3 U	<0.68 U	<0.68 U	<0.67 U	<0.67 U	<0.64 U	<0.66 U	1.9 D	<11 U
Methylene Chloride	75-09-2	ug/m3	<11 U	<1.1 U	<1.2 U	<1.1 U	<1.1 U	<1.1 U	<1.1 U	<1.1 U	<19 U
n-Heptane	142-82-5	ug/m3	250 D	15 D	3.4 D	0.94 D	1.4 D	1.0 D	82 D	5.2 D	50000 D
n-Hexane	110-54-3	ug/m3	400 D	9.3 D	5.7 D	55 D	1.3 D	1.2 D	95 D	3.9 D	120000 D
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/m3	<6.7 U	14 D	3.0 D	<0.71 U	1.6 D	2.5 D	6.5 D	5.8 D	2600 D
Propylene	115-07-1	ug/m3	<2.7 U	<0.28 U	13 D	<0.28 U	4.2 D	1.9 D	<0.28 U	8.0 D	<4.7 U
Styrene	100-42-5	ug/m3	<6.6 U	<0.7 U	1.8 D	<0.7 U	<0.7 U	1.3 D	0.96 D	1.1 D	90 D
Tert-Butyl Methyl Ether	1634-04-4	ug/m3	<5.6 U	<0.6 U	<0.6 U	<0.59 U	<0.59 U	<0.56 U	4.8 D	<0.58 U	<9.8 U
Tetrachloroethene (PCE)	127-18-4	ug/m3	<10 U	89 D	6.9 D	3.7 D	4.1 D	240 D	14 D	28 D	<18 U
Tetrahydrofuran	109-99-9	ug/m3	<9.1 U	<0.98 U	<0.98 U	<0.97 U	<0.97 U	<0.92 U	<0.95 U	<0.95 U	<16 U
Toluene	108-88-3	ug/m3	17 D	32 D	9.8 D	1.4 D	2.7 D	4.5 D	5.0 D	14 D	1200 D
Trans-1,2-Dichloroethene	156-60-5	ug/m3	<6.1 U	<0.66 U	<0.66 U	<0.65 U	<0.65 U	<0.62 U	<0.64 U	<0.64 U	<11 U
Trans-1,3-Dichloropropene	10061-02-6	ug/m3	<7 U	<0.75 U	<0.76 U	<0.74 U	<0.74 U	<0.71 U	<0.73 U	<0.73 U	<12 U
Trichloroethene (TCE)	79-01-6	ug/m3	<2.1 U	0.80 D	0.98 D	<0.22 U	1.1 D	0.51 D	<0.22 U	0.52 D	<3.7 U
Trichlorofluoromethane	75-69-4	ug/m3	<8.7 U	1.6 D	50 D	<0.92 U	3.0 D	1.8 D	0.90 D	1.8 D	<15 U
Vinyl Acetate	108-05-4	ug/m3	<5.4 U	<0.58 U	<0.59 U	<0.58 U	<0.58 U	<0.55 U	<0.57 U	<0.57 U	<9.6 U
Vinyl Chloride	75-01-4	ug/m3	<2 U	<0.21 U	0.21 D	2.1 D	<0.21 U	<0.2 U	<0.21 U	<0.21 U	<3.5 U
General Chemistry											
Methane	74-82-8	ppmV	NA	NA	NA	NA	NA	NA	NA	NA	605000 D

Table 6B
Remedial Investigation Report
Soil Vapor Sample Analytical Results - Block 1825 (F)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Notes:
SV - Soil Vapor
CAS - Chemical Abstract Service
NS - No standard
ug/m3 - microgram per cubic meter
ppmV - parts per million Volume
NA - Not analyzed
RL - Reporting limit
<RL - Not detected

Qualifiers:
D - The concentration reported is a result of a diluted sample.
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 6C
Remedial Investigation Report
Soil Vapor Sample Analytical Results - Block 1824 (G)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	Location	G-SV101	G-SV102	G-SV103	G-SV104	G-SV105	G-SV106	G-SV107	G-SV108	G-SV109	G-SV110
		Sample Name	G-SV101_100721	G-SV102_100721	G-SV103_100721	G-SV104_100721	G-SV105_100721	G-SV106_100721	G-SV107_100721	G-SV108_100721	G-SV109_100721	G-SV110_100721
		Sample Date	10/7/2021	10/7/2021	10/7/2021	10/7/2021	10/7/2021	10/7/2021	10/7/2021	10/7/2021	10/7/2021	10/7/2021
		Sample Type	SV	SV	SV	SV	SV	SV	SV	SV	SV	SV
		Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds												
1,1,1,2-Tetrachloroethane	630-20-6	ug/m3	<1.1 U	<24 U	<2.3 U	<5.6 U	<11 U	<1.1 U	<2.3 U	<2.3 U	<4.6 U	<2.3 U
1,1,1-Trichloroethane	71-55-6	ug/m3	2.3 D	<19 U	<1.8 U	<4.4 U	<9 U	<0.88 U	<1.8 U	<1.8 U	<3.7 U	<1.8 U
1,1,2,2-Tetrachloroethane	79-34-5	ug/m3	<1.1 U	<24 U	<2.3 U	<5.6 U	<11 U	<1.1 U	<2.3 U	<2.3 U	<4.6 U	<2.3 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	ug/m3	<1.3 U	<27 U	<2.5 U	<6.2 U	<13 U	<1.2 U	<2.6 U	<2.6 U	<5.2 U	<2.6 U
1,1,2-Trichloroethane	79-00-5	ug/m3	<0.9 U	<19 U	<1.8 U	<4.4 U	<9 U	<0.88 U	<1.8 U	<1.8 U	<3.7 U	<1.8 U
1,1-Dichloroethane	75-34-3	ug/m3	<0.66 U	<14 U	<1.3 U	<3.3 U	<6.7 U	<0.66 U	<1.4 U	<1.4 U	<2.7 U	<1.4 U
1,1-Dichloroethene	75-35-4	ug/m3	<0.16 U	<3.5 U	<0.33 U	<0.81 U	<1.6 U	<0.16 U	<0.33 U	<0.33 U	<0.67 U	<0.33 U
1,2,4-Trichlorobenzene	120-82-1	ug/m3	<1.2 U	<26 U	<2.4 U	<6 U	<12 U	<1.2 U	<2.5 U	<2.5 U	<5 U	<2.5 U
1,2,4-Trimethylbenzene	95-63-6	ug/m3	16 D	130 D	26 D	15 D	29 D	32 D	28 D	35 D	26 D	26 D
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/m3	<1.3 U	<27 U	<2.5 U	<6.3 U	<13 U	<1.2 U	<2.6 U	<2.6 U	<5.2 U	<2.6 U
1,2-Dichlorobenzene	95-50-1	ug/m3	<0.99 U	<21 U	<2 U	<4.9 U	<9.9 U	<0.97 U	<2 U	<2 U	<4.1 U	<2 U
1,2-Dichloroethane	107-06-2	ug/m3	<0.66 U	<14 U	<1.3 U	<3.3 U	<6.7 U	<0.66 U	<1.4 U	<1.4 U	<2.7 U	<1.4 U
1,2-Dichloropropane	78-87-5	ug/m3	<0.76 U	<16 U	<1.5 U	<3.8 U	<7.6 U	<0.75 U	<1.6 U	<1.5 U	<3.1 U	<1.6 U
1,2-Dichlorotetrafluoroethane	76-14-2	ug/m3	<1.1 UJ	<24 UJ	<2.3 U	<5.7 U	<12 UJ	<1.1 U	<2.4 UJ	<2.3 U	<4.7 UJ	<2.3 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/m3	5.2 D	98 D	10 D	4.8 D	8.1 D	7.9 D	7.6 D	110 D	7.3 D	10 D
1,3-Butadiene	106-99-0	ug/m3	<1.1 U	29 D	<2.2 U	5.6 D	<11 U	4.2 D	<2.2 U	<2.2 U	<4.5 U	<2.2 U
1,3-Dichlorobenzene	541-73-1	ug/m3	<0.99 U	<21 U	<2 U	<4.9 U	<9.9 U	<0.97 U	<2 U	<2 U	<4.1 U	<2 U
1,3-Dichloropropane	142-28-9	ug/m3	<0.76 U	<16 U	<1.5 U	<3.8 U	<7.6 U	<0.75 U	<1.6 U	<1.5 U	<3.1 U	<1.6 U
1,4-Dichlorobenzene	106-46-7	ug/m3	<0.99 U	<21 U	<2 U	<4.9 U	<9.9 U	<0.97 U	<2 U	<2 U	<4.1 U	<2 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/m3	<1.2 U	<25 U	<2.4 U	<5.9 U	<12 U	<1.2 U	<2.4 U	<2.4 U	<4.9 U	<2.4 U
2-Hexanone (MBK)	591-78-6	ug/m3	<1.3 U	<29 U	2.8 D	<6.7 U	<14 U	<1.3 U	<2.8 U	<2.7 U	<5.5 U	5.6 D
4-Ethyltoluene	622-96-8	ug/m3	19 D	440 D	28 D	18 D	27 D	27 D	24 D	99 D	21 D	32 D
Acetone	67-64-1	ug/m3	77 D	2,500 D	67 D	330 D	180 D	160 D	150 D	230 D	120 D	320 D
Acrylonitrile	107-13-1	ug/m3	<0.36 U	<7.6 U	<0.71 U	<1.8 U	<3.6 U	<0.35 U	<0.73 U	<0.72 U	<1.5 U	<0.73 U
Allyl Chloride (3-Chloropropene)	107-05-1	ug/m3	<2.6 U	<55 U	<5.1 U	<13 U	<26 U	<2.5 U	<5.3 U	<5.2 U	<11 U	<5.3 U
Benzene	71-43-2	ug/m3	8 D	5,100 D	5.5 D	17 D	25 D	4.6 D	6.5 D	130 D	4.1 D	64 D
Benzyl Chloride	100-44-7	ug/m3	<0.85 U	<18 U	<1.7 U	<4.2 U	<8.6 U	<0.84 U	<1.7 U	<1.7 U	<3.5 U	<1.7 U
Bromodichloromethane	75-27-4	ug/m3	<1.1 U	<23 U	<2.2 U	<5.4 U	<11 U	<1.1 U	<2.3 U	<2.2 U	<4.5 U	<2.3 U
Bromoethene	593-60-2	ug/m3	<0.72 U	<15 U	<1.4 U	<3.6 U	<7.2 U	<0.71 U	<1.5 U	<1.5 U	<3 U	<1.5 U
Bromoform	75-25-2	ug/m3	<1.7 U	<36 U	<3.4 U	<8.4 U	<17 U	<1.7 U	<3.5 U	<3.5 U	<7 U	<3.5 U
Bromomethane	74-83-9	ug/m3	<0.64 U	<14 U	<1.3 U	<3.2 U	<6.4 U	<0.63 U	<1.3 U	<1.3 U	<2.6 U	<1.3 U
Carbon Disulfide	75-15-0	ug/m3	3.2 D	330 D	20 D	95 D	13 D	39 D	2.4 D	44 D	2.3 D	100 D
Carbon Tetrachloride	56-23-5	ug/m3	<0.26 U	<5.5 U	<0.52 U	<1.3 U	<2.6 U	<0.25 U	<0.53 U	<0.53 U	<1.1 U	<0.53 U
Chlorobenzene	108-90-7	ug/m3	<0.76 U	<16 U	<1.5 U	<3.7 U	9.1 D	<0.75 U	<1.5 U	<1.5 U	<3.1 U	<1.5 U
Chloroethane	75-00-3	ug/m3	<0.43 U	<9.2 U	<0.87 U	<2.1 U	<4.4 U	<0.43 U	<0.89 U	<0.88 U	<1.8 U	<0.89 U
Chloroform	67-66-3	ug/m3	<0.8 U	<17 U	<1.6 U	<4 U	<8.1 U	1.1 D	<1.6 U	2.3 D	<3.3 U	9 D
Chloromethane	74-87-3	ug/m3	0.61 D	<7.2 U	1.4 D	<1.7 U	<3.4 U	0.33 D	<0.7 U	0.9 D	<1.4 U	0.83 D
Cis-1,2-Dichloroethene	156-59-2	ug/m3	<0.16 U	<3.5 U	<0.33 U	<0.81 U	<1.6 U	<0.16 U	<0.33 U	<0.33 U	<0.67 U	<0.33 U
Cis-1,3-Dichloropropene	10061-01-5	ug/m3	<0.74 U	<16 U	<1.5 U	<3.7 U	<7.5 U	<0.73 U	<1.5 U	<1.5 U	<3.1 U	<1.5 U
Cyclohexane	110-82-7	ug/m3	5.5 D	2,700 D	6.1 D	110 D	13 D	17 D	6 D	130 D	13 D	80 D
Dibromochloromethane	124-48-1	ug/m3	<1.4 U	<30 U	<2.8 U	<6.9 U	<14 U	<1.4 U	<2.9 U	<2.8 U	<5.8 U	<2.9 U
Dichlorodifluoromethane	75-71-8	ug/m3	1.7 D	<17 U	2.3 D	<4 U	<8.2 U	2.3 D	1.7 D	2.6 D	5 D	2 D
Ethyl Acetate	141-78-6	ug/m3	<1.2 U	<25 U	<2.4 U	<5.9 U	<12 U	<1.2 U	<2.4 U	<2.4 U	<4.9 U	<2.4 U
Ethylbenzene	100-41-4	ug/m3	10 D	1,400 D	14 D	12 D	15 D	12 D	12 D	170 D	12 D	140 D
Hexachlorobutadiene	87-68-3	ug/m3	<1.8 U	<37 U	<3.5 U	<8.7 U	<18 U	<1.7 U	<3.6 U	<3.6 U	<7.2 U	<3.6 U
Isopropanol	67-63-0	ug/m3	18 D	<17 U	1.8 D	<4 U	<8.1 U	6.2 D	4.5 D	3.2 D	<3.3 U	13 D
M,P-Xylene	179601-23-1	ug/m3	35 D	5,600 D	64 D	35 D	50 D	43 D	39 D	200 D	38 D	230 D
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/m3	12 D	450 D	11 D	71 D	20 D	21 D	21 D	28 D	13 D	77 D
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone	108-10-1	ug/m3	<0.67 U	<14 U	2.6 D	<3.3 U	<6.8 U	<0.66 U	<1.4 U	41 D	<2.8 U	<1.4 U
Methyl Methacrylate	80-62-6	ug/m3	<0.67 U	<14 U	<1.3 U	<3.3 U	<6.8 U	<0.66 U	<1.4 U	<1.4 U	<2.8 U	<1.4 U
Methylene Chloride	75-09-2	ug/m3	<1.1 U	<24 U	<2.3 U	<5.7 U	<11 U	<1.1 U	<2.3 U	<2.3 U	<4.7 U	7.5 D
n-Heptane	142-82-5	ug/m3	18 D	11,000 D	4.6 D	87 D	3,500 D	12 D	17 D	150 D	12 D	170 D
n-Hexane	110-54-3	ug/m3	53 D	24,000 D	5.9 D	240 D	2,500 D	38 D	41 D	120 D	9.3 D	180 D
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/m3	12 D	740 D	26 D	14 D	21 D	15 D	13 D	140 D	13 D	74 D
Propylene	115-07-1	ug/m3	<0.28 U	820 D	15 D	<1.4 U	<2.8 U	110 D	<0.58 U	55 D	<1.2 U	61 D
Styrene	100-42-5	ug/m3	2.9 D	39 D	2.2 D	<3.5 U	<7 U	1.7 D	1.6 D	7.1 D	<2.9 U	30 D
Tert-Butyl Methyl Ether	1634-04-4	ug/m3	0.83 D	<13 U	35 D	4.7 D	<6 U	1.1 D	13 D	330 D	<2.4 U	3.8 D
Tetrachloroethene (PCE)	127-18-4	ug/m3	14 D	97 D	3.6 D	5.5 D	190 D	2.9 D	5.5 D	4.8 D	16 D	11 D
Tetrahydrofuran	109-99-9	ug/m3	30 D	<21 U	15 D	<4.8 U	<9.8 U	21 D	22 D	<2 U	30 D	<2 U
Toluene	108-88-3	ug/m3	27 D	840 D	41 D	37 D	48 D	39 D	39 D	160 D	39 D	200 D
Trans-1,2-Dichloroethene	156-60-5	ug/m3	<0.65 U	<14 U	<1.3 U	<3.2 U	<6.6 U	<0.64 U	<1.3 U	<1.3 U	<2.7 U	<1.3 U
Trans-1,3-Dichloropropene	10061-02-6	ug/m3	<0.74 U	<16 U	<1.5 U	<3.7 U	<7.5 U	<0.73 U	<1.5 U	<1.5 U	<3.1 U	<1.5 U
Trichloroethene (TCE)	79-01-6	ug/m3	<0.22 U	<4.7 U	<0.44 U	<1.1 U	<2.2 U	<0.22 U	<0.45 U	<0.45 U	<0.91 U	<0.45 U
Trichlorofluoromethane	75-69-4	ug/m3	7.7 D	<20 U	<1.8 U	<4.6 U	<9.3 U	46 D	<1.9 U	<1.9 U	<3.8 U	<1.9 U
Vinyl Acetate	108-05-4	ug/m3	<0.58 U	<12 U	<1.2 U	<2.9 U	<5.8 U	<0.57 U	<1.2 U	<1.2 U	<2.4 U	<1.2 U
Vinyl Chloride	75-01-4	ug/m3	<0.21 U	<4.5 U	<0.42 U	<1 U	<2.1 U	<0.21 U	<0.43 U	<0.43 U	<0.86 U	<0.43 U
General Chemistry												
Methane	74-82-8	ppmV	NA	NA	NA	156,000 D	NA	NA	NA	NA	NA	NA

Table 6C
Remedial Investigation Report
Soil Vapor Sample Analytical Results - Block 1824 (G)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Notes:
SV - Soil Vapor
CAS - Chemical Abstract Service
NS - No standard
ug/m3 - microgram per cubic meter
ppmV - parts per million Volume
NA - Not analyzed
RL - Reporting limit
<RL - Not detected

Qualifiers:

D - The concentration reported is a result of a diluted sample.

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.
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

Table 6D
Remedial Investigation Report
Soil Vapor Sample Analytical Results - Block 1823 (H)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	Location	H-SV101	H-SV101	H-SV102	H-SV103	H-SV104	H-SV105	H-SV105	H-SV106	H-SV107	H-SV108
		Sample Name	H-SV101_100821	SVDUP02_100821	H-SV102_100821	H-SV103_100821	H-SV104_100821	H-SV105_100821	SVDUP03_100821	H-SV106_100821	H-SV107_100821	H-SV108_100821
		Sample Date	10/8/2021	10/8/2021	10/8/2021	10/8/2021	10/8/2021	10/8/2021	10/8/2021	10/8/2021	10/8/2021	10/8/2021
		Sample Type	SV	SV	SV	SV	SV	SV	SV	SV	SV	SV
		Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds												
1,1,1,2-Tetrachloroethane	630-20-6	ug/m3	<4.6 U	<4.6 U	<2.3 U	<10 U	<12 U	<4.6 U	<2.3 U	<1.1 U	<2.2 U	<1.1 U
1,1,1-Trichloroethane	71-55-6	ug/m3	<3.7 U	<3.6 U	<1.9 U	<8.2 U	<9.3 U	<3.7 U	<1.9 U	<0.91 U	<1.7 U	<0.87 U
1,1,2,2-Tetrachloroethane	79-34-5	ug/m3	<4.6 U	<4.6 U	<2.3 U	<10 U	<12 U	<4.6 U	<2.3 U	<1.1 U	<2.2 U	<1.1 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	ug/m3	<5.2 U	<5.1 U	<2.6 U	<11 U	<13 U	<5.1 U	<2.6 U	<1.3 U	<2.5 U	<1.2 U
1,1,2-Trichloroethane	79-00-5	ug/m3	<3.7 U	<3.6 U	<1.9 U	<8.2 U	<9.3 U	<3.7 U	<1.9 U	<0.91 U	<1.7 U	<0.87 U
1,1-Dichloroethane	75-34-3	ug/m3	<2.7 U	<2.7 U	<1.4 U	6.7 D	<6.9 U	<2.7 U	<1.4 U	<0.67 U	<1.3 U	<0.64 U
1,1-Dichloroethene	75-35-4	ug/m3	<0.67 U	<0.66 U	<0.34 U	<1.5 U	53 D	3.2 D	3 J	<0.16 U	<0.32 UJ	<0.16 U
1,2,4-Trichlorobenzene	120-82-1	ug/m3	<5 U	<5 U	<2.5 U	<11 U	<13 U	<5 U	<2.5 U	<1.2 U	<2.4 U	<1.2 U
1,2,4-Trimethylbenzene	95-63-6	ug/m3	30 J	4.6 J	19 D	35 D	400 D	10 D	63 J	35 D	28 J	26 D
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/m3	<5.2 U	<5.1 U	<2.6 U	<12 U	<13 U	<5.2 U	<2.6 U	<1.3 U	<2.5 U	<1.2 U
1,2-Dichlorobenzene	95-50-1	ug/m3	<4 U	<4 U	<2.1 U	<9 U	<10 U	<4 U	<2.1 U	<1 U	<1.9 U	<0.96 U
1,2-Dichloroethane	107-06-2	ug/m3	<2.7 U	<2.7 U	<1.4 U	<6.1 U	<6.9 U	<2.7 U	<1.4 U	<0.67 U	<1.3 U	<0.64 U
1,2-Dichloropropane	78-87-5	ug/m3	<3.1 U	<3.1 U	<1.6 U	<6.9 U	<7.9 U	<3.1 U	<1.6 U	<0.77 U	<1.5 U	<0.74 U
1,2-Dichlorotetrafluoroethane	76-14-2	ug/m3	6.1 D	<4.7 U	<2.4 U	<10 U	<12 U	<4.7 U	<2.4 U	<1.2 U	4.7 J	<1.1 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/m3	7.6 D	<3.3 U	5.5 D	17 D	440 D	8.9 D	33 J	9.6 D	7.6 J	6.5 D
1,3-Butadiene	106-99-0	ug/m3	<4.5 UJ	55 J	<2.3 U	<9.9 U	<11 U	<4.4 U	<2.3 U	<1.1 U	<2.1 U	<1.1 U
1,3-Dichlorobenzene	541-73-1	ug/m3	<4 U	<4 U	<2.1 U	<9 U	<10 U	<4 U	<2.1 U	<1 U	<1.9 U	<0.96 U
1,3-Dichloropropane	142-28-9	ug/m3	<3.1 U	<3.1 U	<1.6 U	<6.9 U	<7.9 U	<3.1 U	<1.6 U	<0.77 U	<1.5 U	<0.74 U
1,4-Dichlorobenzene	106-46-7	ug/m3	<4 U	<4 U	<2.1 U	<9 U	<10 U	<4 U	<2.1 U	<1 U	<1.9 U	<0.96 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/m3	<4.8 U	<4.8 U	<2.5 U	<11 U	<12 U	<4.8 U	<2.5 U	<1.2 U	<2.3 U	<1.1 U
2-Hexanone (MBK)	591-78-6	ug/m3	<5.5 U	22 D	<2.8 U	<12 U	<14 U	<5.5 U	<2.8 U	2.6 D	<2.6 U	<1.3 U
4-Ethyltoluene	622-96-8	ug/m3	24 J	5.9 J	18 D	55 D	1,100 D	23 D	110 J	33 D	22 J	20 D
Acetone	67-64-1	ug/m3	190 J	1,400 J	360 D	1,300 D	1,500 D	98 D	160 D	240 D	180 D	89 D
Acrylonitrile	107-13-1	ug/m3	<1.5 U	<1.4 U	<0.74 U	<3.3 U	<3.7 U	<1.5 U	<0.74 U	<0.36 U	<0.7 U	<0.35 U
Allyl Chloride (3-Chloropropene)	107-05-1	ug/m3	<11 U	<10 U	<5.3 U	<23 U	<27 U	<10 U	<5.3 U	<2.6 U	<5 U	<2.5 U
Benzene	71-43-2	ug/m3	47 J	97 J	6.4 D	110 D	790 D	90 D	120 J	28 D	44 J	42 D
Benzyl Chloride	100-44-7	ug/m3	<3.5 U	<3.5 U	<1.8 U	<7.8 U	<8.9 U	<3.5 U	<1.8 U	<0.86 U	<1.7 U	<0.82 U
Bromodichloromethane	75-27-4	ug/m3	<4.5 U	<4.5 U	<2.3 U	<10 U	<11 U	<4.5 U	<2.3 U	<1.1 U	<2.1 U	<1.1 U
Bromoethene	593-60-2	ug/m3	<2.9 U	<2.9 U	<1.5 U	<6.6 U	<7.5 U	<2.9 U	<1.5 U	<0.73 U	<1.4 U	<0.7 U
Bromoform	75-25-2	ug/m3	<6.9 U	<6.9 U	<3.5 U	<15 U	<18 U	<6.9 U	<3.5 U	<1.7 U	<3.3 U	<1.6 U
Bromomethane	74-83-9	ug/m3	<2.6 U	<2.6 U	<1.3 U	<5.8 U	<6.7 U	<2.6 U	<1.3 U	<0.64 U	<1.2 U	<0.62 U
Carbon Disulfide	75-15-0	ug/m3	36 J	85 J	<1.1 U	150 D	730 D	2.7 D	3.7 J	65 D	36 J	6.1 D
Carbon Tetrachloride	56-23-5	ug/m3	<1.1 U	<1.1 U	<0.54 U	<2.4 U	<2.7 U	<1.1 U	<0.54 U	<0.26 U	<0.5 U	0.5 D
Chlorobenzene	108-90-7	ug/m3	<3.1 U	<3.1 U	<1.6 U	<6.9 U	<7.9 U	<3.1 U	<1.6 U	<0.76 U	<1.5 U	<0.73 U
Chloroethane	75-00-3	ug/m3	<1.8 UJ	12 J	<0.9 U	<4 U	<4.5 U	<1.8 U	<0.9 U	<0.44 U	<0.85 U	<0.42 U
Chloroform	67-66-3	ug/m3	<3.3 U	<3.3 U	<1.7 U	<7.3 U	<8.4 U	<3.3 U	<1.7 U	<0.81 U	<1.6 U	40 D
Chloromethane	74-87-3	ug/m3	<1.4 U	4.1 D	<0.7 U	<3.1 U	<3.5 U	<1.4 U	<0.7 U	<0.34 U	<0.66 U	0.43 D
Cis-1,2-Dichloroethene	156-59-2	ug/m3	<0.67 UJ	4.2 J	3.9 D	36 D	12,000 D	34 D	42 J	<0.16 U	<0.32 UJ	0.19 D
Cis-1,3-Dichloropropene	10061-01-5	ug/m3	<3 U	<3 U	<1.5 U	<6.8 U	<7.8 U	<3 U	<1.5 U	<0.75 U	<1.5 U	<0.72 U
Cyclohexane	110-82-7	ug/m3	280 J	120 J	160 D	1,300 D	1,500 D	170 D	160 J	20 D	260 J	15 D
Dibromochloromethane	124-48-1	ug/m3	<5.7 U	<5.7 U	<2.9 U	<13 U	<15 U	<5.7 U	<2.9 U	<1.4 U	<2.7 U	<1.4 U
Dichlorodifluoromethane	75-71-8	ug/m3	<3.3 U	<3.3 U	2.9 J	<7.4 U	<8.5 U	<3.3 U	<1.7 U	1.6 D	2.2 J	2.1 D
Ethyl Acetate	141-78-6	ug/m3	<4.8 U	6.3 D	31 D	<11 U	<12 U	<4.8 U	<2.5 UJ	1.9 D	5 J	<1.1 U
Ethylbenzene	100-41-4	ug/m3	11 D	12 D	14 D	59 D	1,100 D	38 D	90 J	22 D	10 J	8.1 D
Hexachlorobutadiene	87-68-3	ug/m3	<7.2 U	<7.1 U	<3.6 U	<16 U	<18 U	<7.1 U	<3.6 U	<1.8 U	<3.4 U	<1.7 U
Isopropanol	67-63-0	ug/m3	5.1 J	31 J	8.6 D	21 D	55 D	9.4 D	8.7 J	6.4 D	4.1 J	2.5 D
M,P-Xylene	179601-23-1	ug/m3	48 J	32 J	52 D	140 D	3,300 D	100 D	430 J	69 D	45 J	34 D
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/m3	32 J	220 J	41 D	110 D	470 D	16 D	11 J	37 D	30 J	6.4 D
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone	108-10-1	ug/m3	<2.8 UJ	31 J	3.8 D	210 D	200 D	<2.7 U	<1.4 U	2.1 D	<1.3 U	<0.65 U
Methyl Methacrylate	80-62-6	ug/m3	<2.8 U	3.8 D	<1.4 U	<6.1 U	<7 U	<2.7 U	<1.4 U	10 J	<1.3 U	0.78 D
Methylene Chloride	75-09-2	ug/m3	<4.7 U	<4.6 U	<2.4 U	27 D	<12 U	<4.7 U	<2.4 U	4 D	<2.2 U	17 D
n-Heptane	142-82-5	ug/m3	20 J	72 J	20 D	590 D	2,400 D	590 D	150 J	24 D	18 J	3.1 D
n-Hexane	110-54-3	ug/m3	51 J	120 J	65 D	1,300 D	3,200 D	900 D	210 J	33 D	49 J	4.8 D
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/m3	15 D	14 D	18 D	75 D	1,200 D	37 D	66 J	26 D	14 J	12 D
Propylene	115-07-1	ug/m3	<1.2 UJ	1,000 J	<0.59 UJ	<2.6 U	1,200 D	<1.2 U	<0.59 U	130 D	<0.55 UJ	<0.27 U
Styrene	100-42-5	ug/m3	<2.9 U	6.3 D	9.4 D	<6.4 U	49 D	16 D	4.2 J	5.4 D	<1.4 UJ	1.3 D
Tert-Butyl Methyl Ether	1634-04-4	ug/m3	59 J	<2.4 UJ	200 D	640 D	540 D	280 D	290 J	4.9 D	56 J	<0.57 U
Tetrachloroethene (PCE)	127-18-4	ug/m3	<4.6 U	6.8 D	2.5 D	<10 U	58 D	12 D	16 J	4.3 D	<2.2 UJ	5.3 D
Tetrahydrofuran	109-99-9	ug/m3	<4 U	<3.9 U	21 D	<8.8 U	<10 U	<4 U	<2 U	30 D	3 J	7.4 D
Toluene	108-88-3	ug/m3	42 J	370 J	63 D	620 D	1,300 D	83 D	95 J	75 D	39 J	32 D
Trans-1,2-Dichloroethene	156-60-5	ug/m3	<2.7 U	<2.6 U	<1.4 U	<5.9 U	180 D	26 D	26 J	<0.66 U	<1.3 UJ	<0.63 U
Trans-1,3-Dichloropropene	10061-02-6	ug/m3	<3 U	<3 U	<1.5 U	<6.8 U	<7.8 U	<3 U	<1.5 U	<0.75 U	<1.5 U	<0.72 U
Trichloroethene (TCE)	79-01-6	ug/m3	<0.9 U	2.5 D	<0.46 U	33 D	130 D	<0.9 U	33 J	1.2 D	<0.43 UJ	1.1 D
Trichlorofluoromethane	75-69-4	ug/m3	<3.8 U	<3.8 U	3.6 D	<8.4 U	<9.6 U	<3.8 U	<1.9 U	<0.93 U	<1.8 U	110 D
Vinyl Acetate	108-05-4	ug/m3	<2.4 U	<2.4 U	<1.2 U	<5.3 U	<6 U	<2.4 U	<1.2 U	<0.58 U	<1.1 U	<0.56 U
Vinyl Chloride	75-01-4	ug/m3	<0.86 U	<0.85 U	12 D	140 D	45,000 D	160 D	150 J	<0.21 U	<0.41 UJ	<0.2 U
General Chemistry												
Methane	74-82-8	ppmV	105,000 J	21,300 J	NA	NA	NA	NA	NA	NA	NA	NA

Table 6D
Remedial Investigation Report
Soil Vapor Sample Analytical Results - Block 1823 (H)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Notes:
SV - Soil Vapor
CAS - Chemical Abstract Service
NS - No standard
ug/m3 - microgram per cubic meter
ppmV - parts per million Volume
NA - Not analyzed
RL - Reporting limit
<RL - Not detected

Qualifiers:
D - The concentration reported is a result of a diluted sample.
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.
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

Table 6E
Remedial Investigation Report
Soil Vapor Sample Analytical Results - Block 1822 (I)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	Location	I_SV101	I_SV102	I_SV103	I_SV104	I_SV105
		Sample Name	I_SV101_092921	I_SV102_092921	I_SV103_092921	I_SV104_092921	I_SV105_092921
		Sample Date	9/29/2021	9/29/2021	9/29/2021	9/29/2021	9/29/2021
		Sample Type	SV	SV	SV	SV	SV
		Unit	Result	Result	Result	Result	Result
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	630-20-6	ug/m3	<1.2 U	<4.6 U	<11 U	<11 U	<2.3 U
1,1,1-Trichloroethane	71-55-6	ug/m3	<0.94 U	<3.6 U	<8.9 U	<8.8 U	<1.8 U
1,1,2,2-Tetrachloroethane	79-34-5	ug/m3	<1.2 U	<4.6 U	<11 U	<11 U	<2.3 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	ug/m3	<1.3 U	<5.1 U	<13 U	<12 U	<2.6 U
1,1,2-Trichloroethane	79-00-5	ug/m3	<0.94 U	<3.6 U	<8.9 U	<8.8 U	<1.8 U
1,1-Dichloroethane	75-34-3	ug/m3	<0.7 U	<2.7 U	<6.6 U	<6.5 U	<1.4 U
1,1-Dichloroethene	75-35-4	ug/m3	<0.17 U	<0.66 U	<1.6 U	<1.6 U	<0.33 U
1,2,4-Trichlorobenzene	120-82-1	ug/m3	<1.3 U	<4.9 U	<12 U	<12 U	<2.5 U
1,2,4-Trimethylbenzene	95-63-6	ug/m3	2.8 D	12 D	20 D	9.5 D	19 D
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/m3	<1.3 U	<5.1 U	<13 U	<12 U	<2.6 U
1,2-Dichlorobenzene	95-50-1	ug/m3	<1 U	<4 U	<9.8 U	<9.7 U	<2 U
1,2-Dichloroethane	107-06-2	ug/m3	<0.7 U	<2.7 U	<6.6 U	<6.5 U	<1.4 U
1,2-Dichloropropane	78-87-5	ug/m3	<0.8 U	<3.1 U	<7.6 U	<7.5 U	<1.5 U
1,2-Dichlorotetrafluoroethane	76-14-2	ug/m3	<1.2 U	<4.6 U	<11 U	<11 U	<2.3 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/m3	1.0 D	5.2 D	<8 U	<7.9 U	6.1 D
1,3-Butadiene	106-99-0	ug/m3	<1.1 U	6.9 D	49 D	<11 U	<2.2 U
1,3-Dichlorobenzene	541-73-1	ug/m3	<1 U	<4 U	<9.8 U	<9.7 U	<2 U
1,3-Dichloropropane	142-28-9	ug/m3	<0.8 U	<3.1 U	<7.6 U	<7.5 U	<1.5 U
1,4-Dichlorobenzene	106-46-7	ug/m3	<1 U	<4 U	<9.8 U	<9.7 U	<2 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/m3	<1.2 U	<4.8 U	<12 U	<12 U	<2.4 U
2-Hexanone (MBK)	591-78-6	ug/m3	<1.4 U	<5.4 U	<13 U	<13 U	<2.7 U
4-Ethyltoluene	622-96-8	ug/m3	2.8 D	18 D	59 D	12 D	11 D
Acetone	67-64-1	ug/m3	25 D	300 D	850 D	260 D	160 D
Acrylonitrile	107-13-1	ug/m3	<0.37 U	<1.4 U	<3.5 U	<3.5 U	<0.72 U
Allyl Chloride (3-Chloropropene)	107-05-1	ug/m3	<2.7 U	<10 U	<26 U	<25 U	<5.2 U
Benzene	71-43-2	ug/m3	1.4 D	37 D	1300 D	250 D	8.4 D
Benzyl Chloride	100-44-7	ug/m3	<0.89 U	<3.4 U	<8.5 U	<8.4 U	<1.7 U
Bromodichloromethane	75-27-4	ug/m3	<1.2 U	<4.4 U	<11 U	<11 U	<2.2 U
Bromoethene	593-60-2	ug/m3	<0.75 U	<2.9 U	<7.1 U	<7.1 U	<1.5 U
Bromoform	75-25-2	ug/m3	<1.8 U	<6.9 U	<17 U	<17 U	<3.4 U
Bromomethane	74-83-9	ug/m3	<0.67 U	<2.6 U	<6.3 U	<6.3 U	<1.3 U
Carbon Disulfide	75-15-0	ug/m3	<0.54 U	38 D	370 D	36 D	8.0 D
Carbon Tetrachloride	56-23-5	ug/m3	0.33 D	<1 U	<2.6 U	<2.5 U	<0.52 U
Chlorobenzene	108-90-7	ug/m3	<0.79 U	<3.1 U	<7.5 U	<7.4 U	<1.5 U
Chloroethane	75-00-3	ug/m3	<0.46 U	<1.8 U	<4.3 U	<4.3 U	<0.88 U
Chloroform	67-66-3	ug/m3	<0.84 U	<3.2 U	<8 U	<7.9 U	3.1 D
Chloromethane	74-87-3	ug/m3	1.2 D	<1.4 U	<3.4 U	<3.3 U	<0.69 U
Cis-1,2-Dichloroethene	156-59-2	ug/m3	<0.17 U	3.4 D	<1.6 U	<1.6 U	<0.33 U
Cis-1,3-Dichloropropene	10061-01-5	ug/m3	<0.78 U	<3 U	<7.4 U	<7.3 U	<1.5 U
Cyclohexane	110-82-7	ug/m3	1.4 D	340 D	21000 D	1900 D	6.2 D
Dibromochloromethane	124-48-1	ug/m3	<1.5 U	<5.7 U	<14 U	<14 U	<2.8 U
Dichlorodifluoromethane	75-71-8	ug/m3	1.7 D	11 D	<8.1 U	17 D	2.6 D
Ethyl Acetate	141-78-6	ug/m3	<1.2 U	<4.8 U	<12 U	<12 U	<2.4 U
Ethylbenzene	100-41-4	ug/m3	1.7 D	42 D	210 D	83 D	2.5 D
Hexachlorobutadiene	87-68-3	ug/m3	<1.8 U	<7.1 U	<17 U	<17 U	<3.6 U
Isopropanol	67-63-0	ug/m3	1.9 D	6.7 D	40 D	30 D	19 D
M,P-Xylene	179601-23-1	ug/m3	9.0 D	120 D	220 D	120 D	16 D
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/m3	1.2 D	66 D	<4.8 U	86 D	19 D
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone	108-10-1	ug/m3	<0.71 U	<2.7 U	<6.7 U	<6.6 U	<1.4 U
Methyl Methacrylate	80-62-6	ug/m3	<0.71 U	<2.7 U	<6.7 U	<6.6 U	<1.4 U
Methylene Chloride	75-09-2	ug/m3	<1.2 U	<4.6 U	<11 U	<11 U	<2.3 U
n-Heptane	142-82-5	ug/m3	2.3 D	170 D	24000 D	1700 D	44 D
n-Hexane	110-54-3	ug/m3	2.6 D	270 D	29000 D	3400 D	88 D
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/m3	3.5 D	49 D	310 D	18 D	7.7 D
Propylene	115-07-1	ug/m3	<0.3 U	<1.1 U	1000 D	<2.8 U	<0.57 U
Styrene	100-42-5	ug/m3	1.5 D	6.5 D	230 D	<6.9 U	<1.4 U
Tert-Butyl Methyl Ether	1634-04-4	ug/m3	<0.62 U	230 D	650 D	140 D	<1.2 U
Tetrachloroethene (PCE)	127-18-4	ug/m3	<1.2 U	<4.5 U	<11 U	<11 U	3.4 D
Tetrahydrofuran	109-99-9	ug/m3	<1 U	<3.9 U	<9.6 U	<9.5 U	<2 U
Toluene	108-88-3	ug/m3	17 D	180 D	310 D	110 D	14 D
Trans-1,2-Dichloroethene	156-60-5	ug/m3	<0.68 U	<2.6 U	<6.5 U	<6.4 U	<1.3 U
Trans-1,3-Dichloropropene	10061-02-6	ug/m3	<0.78 U	<3 U	<7.4 U	<7.3 U	<1.5 U
Trichloroethene (TCE)	79-01-6	ug/m3	<0.23 U	<0.89 U	<2.2 U	<2.2 U	<0.45 U
Trichlorofluoromethane	75-69-4	ug/m3	0.97 D	<3.7 U	<9.2 U	<9.1 U	10 D
Vinyl Acetate	108-05-4	ug/m3	<0.61 U	<2.3 U	<5.8 U	<5.7 U	<1.2 U
Vinyl Chloride	75-01-4	ug/m3	<0.22 U	7.1 D	<2.1 U	<2.1 U	<0.43 U
General Chemistry							
Methane	74-82-8	ppmV	NA	NA	NA	NA	28.6 D

Table 6E
Remedial Investigation Report
Soil Vapor Sample Analytical Results - Block 1822 (I)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Notes:
SV - Soil Vapor
CAS - Chemical Abstract Service
NS - No standard
ug/m3 - microgram per cubic meter
ppmV - parts per million Volume
NA - Not analyzed
RL - Reporting limit
<RL - Not detected

Qualifiers:
D - The concentration reported is a result of a diluted sample.
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 6F
Remedial Investigation Report
Soil Vapor Sample Analytical Results - Block 1833 (J)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	Location	J-SV101	J-SV101	J-SV102
		Sample Name	J-SV101_100821	SVDUP01_100821	J-SV102_100821
		Sample Date	10/8/2021	10/8/2021	10/8/2021
		Sample Type	SV	SV	SV
		Unit	Result	Result	Result
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	630-20-6	ug/m3	<2.5 U	<5.9 U	<2.3 U
1,1,1-Trichloroethane	71-55-6	ug/m3	<2 U	<4.7 U	<1.8 U
1,1,2,2-Tetrachloroethane	79-34-5	ug/m3	<2.5 U	<5.9 U	<2.3 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	ug/m3	<2.8 U	<6.6 U	<2.5 U
1,1,2-Trichloroethane	79-00-5	ug/m3	<2 U	<4.7 U	<1.8 U
1,1-Dichloroethane	75-34-3	ug/m3	<1.5 U	<3.5 U	<1.3 U
1,1-Dichloroethene	75-35-4	ug/m3	<0.36 U	<0.85 U	<0.33 U
1,2,4-Trichlorobenzene	120-82-1	ug/m3	<2.7 U	<6.3 U	<2.4 U
1,2,4-Trimethylbenzene	95-63-6	ug/m3	5.5 J	10 J	1.8 D
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/m3	<2.8 U	<6.6 U	<2.5 U
1,2-Dichlorobenzene	95-50-1	ug/m3	<2.2 U	<5.1 U	<2 U
1,2-Dichloroethane	107-06-2	ug/m3	<1.5 U	<3.5 U	<1.3 U
1,2-Dichloropropane	78-87-5	ug/m3	<1.7 U	<4 U	<1.5 U
1,2-Dichlorotetrafluoroethane	76-14-2	ug/m3	<2.5 U	<6 U	7.1 D
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/m3	11 J	22 J	<1.6 U
1,3-Butadiene	106-99-0	ug/m3	4.1 D	6.4 D	<2.2 U
1,3-Dichlorobenzene	541-73-1	ug/m3	<2.2 U	<5.1 U	<2 U
1,3-Dichloropropane	142-28-9	ug/m3	<1.7 U	<4 U	<1.5 U
1,4-Dichlorobenzene	106-46-7	ug/m3	<2.2 U	<5.1 U	<2 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/m3	<2.6 U	<6.2 U	<2.4 U
2-Hexanone (MBK)	591-78-6	ug/m3	<2.9 U	<7 U	<2.7 U
4-Ethyltoluene	622-96-8	ug/m3	12 J	21 J	1.8 D
Acetone	67-64-1	ug/m3	270 J	390 J	25 D
Acrylonitrile	107-13-1	ug/m3	<0.78 U	<1.9 U	<0.71 U
Allyl Chloride (3-Chloropropene)	107-05-1	ug/m3	<5.6 U	<13 U	<5.1 U
Benzene	71-43-2	ug/m3	34 J	62 J	11 D
Benzyl Chloride	100-44-7	ug/m3	<1.9 U	<4.4 U	<1.7 U
Bromodichloromethane	75-27-4	ug/m3	<2.4 U	<5.7 U	<2.2 U
Bromoethene	593-60-2	ug/m3	<1.6 U	<3.7 U	<1.4 U
Bromoform	75-25-2	ug/m3	<3.7 U	<8.8 U	<3.4 U
Bromomethane	74-83-9	ug/m3	<1.4 U	<3.3 U	<1.3 U
Carbon Disulfide	75-15-0	ug/m3	49 D	60 D	<1 U
Carbon Tetrachloride	56-23-5	ug/m3	<0.57 U	<1.3 U	<0.52 U
Chlorobenzene	108-90-7	ug/m3	<1.7 U	<3.9 U	<1.5 U
Chloroethane	75-00-3	ug/m3	<0.95 U	<2.3 U	<0.87 U
Chloroform	67-66-3	ug/m3	5.4 D	7.5 D	<1.6 U
Chloromethane	74-87-3	ug/m3	<0.74 U	<1.8 U	<0.68 U
Cis-1,2-Dichloroethene	156-59-2	ug/m3	<0.36 UJ	1.4 J	<0.33 U
Cis-1,3-Dichloropropene	10061-01-5	ug/m3	<1.6 U	<3.9 U	<1.5 U
Cyclohexane	110-82-7	ug/m3	450 J	870 J	130 D
Dibromochloromethane	124-48-1	ug/m3	<3.1 U	<7.3 U	<2.8 U
Dichlorodifluoromethane	75-71-8	ug/m3	2.7 D	<4.2 U	15 D
Ethyl Acetate	141-78-6	ug/m3	<2.6 UJ	51 J	<2.4 U
Ethylbenzene	100-41-4	ug/m3	11 J	18 J	2.4 D
Hexachlorobutadiene	87-68-3	ug/m3	<3.8 U	<9.1 U	<3.5 U
Isopropanol	67-63-0	ug/m3	15 D	14 D	17 D
M,P-Xylene	179601-23-1	ug/m3	32 J	55 J	5.6 D
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/m3	62 J	91 J	4.6 D
Methyl Isobutyl Ketone (4-Methyl-2-Pentanon	108-10-1	ug/m3	<1.5 U	<3.5 U	<1.3 U
Methyl Methacrylate	80-62-6	ug/m3	<1.5 U	<3.5 U	<1.3 U
Methylene Chloride	75-09-2	ug/m3	<2.5 U	<5.9 U	5.8 D
n-Heptane	142-82-5	ug/m3	210 J	410 J	94 D
n-Hexane	110-54-3	ug/m3	110 J	210 J	240 D
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/m3	31 J	63 J	<1.4 U
Propylene	115-07-1	ug/m3	97 D	130 D	<0.57 U
Styrene	100-42-5	ug/m3	2 D	<3.6 U	<1.4 U
Tert-Butyl Methyl Ether	1634-04-4	ug/m3	79 J	140 J	5.6 D
Tetrachloroethene (PCE)	127-18-4	ug/m3	4.1 D	<5.8 U	42 D
Tetrahydrofuran	109-99-9	ug/m3	<2.1 U	<5 U	<1.9 U
Toluene	108-88-3	ug/m3	42 J	60 J	9.5 D
Trans-1,2-Dichloroethene	156-60-5	ug/m3	<1.4 U	<3.4 U	<1.3 U
Trans-1,3-Dichloropropene	10061-02-6	ug/m3	<1.6 U	<3.9 U	<1.5 U
Trichloroethene (TCE)	79-01-6	ug/m3	<0.48 U	<1.1 U	12 D
Trichlorofluoromethane	75-69-4	ug/m3	3 D	<4.8 U	2.6 D
Vinyl Acetate	108-05-4	ug/m3	<1.3 U	<3 U	<1.2 U
Vinyl Chloride	75-01-4	ug/m3	<0.46 U	<1.1 U	0.84 D
General Chemistry					
Methane	74-82-8	ppmV	NA	NA	7,090 D

Table 6F
Remedial Investigation Report
Soil Vapor Sample Analytical Results - Block 1833 (J)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Notes:
SV - Soil Vapor
CAS - Chemical Abstract Service
NS - No standard
ug/m3 - microgram per cubic meter
ppmV - parts per million Volume
NA - Not analyzed
RL - Reporting limit
<RL - Not detected

Qualifiers:

D - The concentration reported is a result of a diluted sample.

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.
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

Table 6G
Remedial Investigation Report
Soil Vapor Sample Analytical Results - Block 1820 (K)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Analyte	CAS Number	Location	K-SV101	K-SV102	K-SV103	K-SV104	K-SV105
		Sample Name	K-SV101_092821	K-SV102_092821	K-SV103_092821	K-SV104_092821	K-SV105_092821
		Sample Date	9/28/2021	9/28/2021	9/28/2021	9/28/2021	9/28/2021
		Sample Type	SV	SV	SV	SV	SV
		Unit	Result	Result	Result	Result	Result
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	630-20-6	ug/m3	<1.1 U	<1.1 U	<11 U	<4.4 U	<2.2 U
1,1,1-Trichloroethane	71-55-6	ug/m3	<0.91 U	<0.9 U	<8.9 U	<3.5 U	<1.7 U
1,1,2,2-Tetrachloroethane	79-34-5	ug/m3	<1.1 U	<1.1 U	<11 U	<4.4 U	<2.2 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	ug/m3	<1.3 U	<1.3 U	<12 U	<4.9 U	<2.5 U
1,1,2-Trichloroethane	79-00-5	ug/m3	<0.91 U	<0.9 U	<8.9 U	<3.5 U	<1.7 U
1,1-Dichloroethane	75-34-3	ug/m3	<0.68 U	<0.67 U	<6.6 U	<2.6 U	1.9 D
1,1-Dichloroethene	75-35-4	ug/m3	<0.17 U	<0.16 U	<1.6 U	<0.64 U	<0.32 U
1,2,4-Trichlorobenzene	120-82-1	ug/m3	<1.2 U	<1.2 U	<12 U	<4.8 U	<2.4 U
1,2,4-Trimethylbenzene	95-63-6	ug/m3	10 D	5.4 D	82 D	8.9 D	4.7 D
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/m3	<1.3 U	<1.3 U	<13 U	<4.9 U	<2.5 U
1,2-Dichlorobenzene	95-50-1	ug/m3	<1 U	<0.99 U	<9.8 U	<3.9 U	<1.9 U
1,2-Dichloroethane	107-06-2	ug/m3	<0.68 U	<0.67 U	<6.6 U	<2.6 U	<1.3 U
1,2-Dichloropropane	78-87-5	ug/m3	<0.77 U	<0.76 U	<7.5 U	<3 U	<1.5 U
1,2-Dichlorotetrafluoroethane	76-14-2	ug/m3	<1.2 U	<1.2 U	<11 U	<4.5 U	<2.2 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/m3	3.0 D	2.5 D	110 D	3.2 D	1.7 D
1,3-Butadiene	106-99-0	ug/m3	<1.1 U	<1.1 U	<11 U	<4.3 U	<2.1 U
1,3-Dichlorobenzene	541-73-1	ug/m3	<1 U	<0.99 U	<9.8 U	<3.9 U	<1.9 U
1,3-Dichloropropane	142-28-9	ug/m3	<0.77 U	<0.76 U	<7.5 U	<3 U	<1.5 U
1,4-Dichlorobenzene	106-46-7	ug/m3	<1 U	<0.99 U	<9.8 U	<3.9 U	<1.9 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/m3	<1.2 U	<1.2 U	<12 U	<4.6 U	<2.3 U
2-Hexanone (MBK)	591-78-6	ug/m3	<1.4 U	<1.4 UJ	<13 U	<5.3 U	<2.6 U
4-Ethyltoluene	622-96-8	ug/m3	6.2 D	3.9 D	450 D	7.0 D	3.6 D
Acetone	67-64-1	ug/m3	13 D	44 D	620 D	190 D	110 D
Acrylonitrile	107-13-1	ug/m3	<0.36 U	<0.36 U	<3.5 U	<1.4 U	<0.69 U
Allyl Chloride (3-Chloropropene)	107-05-1	ug/m3	<2.6 U	<2.6 U	<25 U	<10 U	<5 U
Benzene	71-43-2	ug/m3	<0.53 U	3.2 D	110 D	30 D	14 D
Benzyl Chloride	100-44-7	ug/m3	<0.87 U	<0.85 U	<8.4 U	<3.3 U	<1.7 U
Bromodichloromethane	75-27-4	ug/m3	3.6 D	<1.1 U	<11 U	<4.3 U	<2.1 U
Bromoethene	593-60-2	ug/m3	<0.73 U	<0.72 U	<7.1 U	<2.8 U	<1.4 U
Bromoform	75-25-2	ug/m3	<1.7 U	<1.7 U	<17 U	<6.7 U	<3.3 U
Bromomethane	74-83-9	ug/m3	<0.65 U	<0.64 U	<6.3 U	<2.5 U	<1.2 U
Carbon Disulfide	75-15-0	ug/m3	<0.52 U	6.5 D	120 D	48 D	18 D
Carbon Tetrachloride	56-23-5	ug/m3	0.32 D	<0.26 U	<2.6 U	<1 U	<0.5 U
Chlorobenzene	108-90-7	ug/m3	<0.77 U	<0.76 U	<7.5 U	19 D	<1.5 U
Chloroethane	75-00-3	ug/m3	<0.44 U	<0.44 U	<4.3 U	<1.7 U	<0.84 U
Chloroform	67-66-3	ug/m3	87 D	0.97 D	<7.9 U	<3.1 U	<1.6 U
Chloromethane	74-87-3	ug/m3	<0.35 U	<0.34 U	<3.4 U	<1.3 U	<0.66 U
Cis-1,2-Dichloroethene	156-59-2	ug/m3	<0.17 U	0.33 D	<1.6 U	40 D	19 D
Cis-1,3-Dichloropropene	10061-01-5	ug/m3	<0.76 U	<0.75 U	<7.4 U	<2.9 U	<1.5 U
Cyclohexane	110-82-7	ug/m3	<0.58 U	1.5 D	270 D	550 D	57 D
Dibromochloromethane	124-48-1	ug/m3	<1.4 U	<1.4 U	<14 U	<5.5 U	<2.7 U
Dichlorodifluoromethane	75-71-8	ug/m3	2.1 D	2.8 D	1900 D	<3.2 U	24 D
Ethyl Acetate	141-78-6	ug/m3	<1.2 U	<1.2 U	<12 U	<4.6 U	<2.3 U
Ethylbenzene	100-41-4	ug/m3	1.1 D	1.3 D	320 D	9.8 D	4.0 D
Hexachlorobutadiene	87-68-3	ug/m3	<1.8 U	<1.8 U	<17 U	<6.9 U	<3.4 U
Isopropanol	67-63-0	ug/m3	1.5 D	1.9 D	28 D	10 D	6.5 D
M,P-Xylene	179601-23-1	ug/m3	4.9 D	5.8 D	2400 D	25 D	11 D
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/m3	2.1 D	3.6 D	150 D	38 D	26 D
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone	108-10-1	ug/m3	<0.68 U	1.1 D	<6.7 U	<2.6 U	<1.3 U
Methyl Methacrylate	80-62-6	ug/m3	<0.68 U	<0.68 U	<6.7 U	<2.6 U	<1.3 U
Methylene Chloride	75-09-2	ug/m3	<1.2 U	<1.1 U	<11 U	13 D	<2.2 U
n-Heptane	142-82-5	ug/m3	<0.69 U	1.4 D	1300 D	370 D	8.0 D
n-Hexane	110-54-3	ug/m3	<0.59 U	1.9 D	260 D	550 D	8.9 D
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/m3	2.7 D	2.9 D	1300 D	12 D	3.6 D
Propylene	115-07-1	ug/m3	<0.29 U	12 D	<2.8 U	<1.1 U	<0.55 U
Styrene	100-42-5	ug/m3	0.93 D	<0.7 U	<6.9 U	<2.7 U	<1.4 U
Tert-Butyl Methyl Ether	1634-04-4	ug/m3	<0.6 U	0.95 D	20000 D	680 D	64 D
Tetrachloroethene (PCE)	127-18-4	ug/m3	4.0 D	34 D	<11 U	<4.4 U	5.4 D
Tetrahydrofuran	109-99-9	ug/m3	<0.99 U	3.1 D	<9.6 U	<3.8 U	<1.9 U
Toluene	108-88-3	ug/m3	2.0 D	5.9 D	610 D	24 D	10 D
Trans-1,2-Dichloroethene	156-60-5	ug/m3	<0.66 U	<0.65 U	<6.5 U	46 D	<1.3 U
Trans-1,3-Dichloropropene	10061-02-6	ug/m3	<0.76 U	<0.75 U	<7.4 U	<2.9 U	<1.5 U
Trichloroethene (TCE)	79-01-6	ug/m3	<0.22 U	270 D	<2.2 U	<0.87 U	<0.43 U
Trichlorofluoromethane	75-69-4	ug/m3	1.7 D	2.2 D	<9.1 U	<3.6 U	<1.8 U
Vinyl Acetate	108-05-4	ug/m3	<0.59 U	<0.58 U	<5.7 U	<2.3 U	<1.1 U
Vinyl Chloride	75-01-4	ug/m3	<0.21 U	<0.21 U	<2.1 U	200 D	1.5 D
General Chemistry							
Methane	74-82-8	ppmV	NA	NA	NA	270000 D	NA

Table 6G
Remedial Investigation Report
Soil Vapor Sample Analytical Results - Block 1820 (K)

Willets Point OU-2 (Phase 2)
Queens, New York
NYSDEC BCP Site No. C241146
Langan Project No. 170197601

Notes:
SV - Soil Vapor
CAS - Chemical Abstract Service
NS - No standard
ug/m3 - microgram per cubic meter
ppmV - parts per million Volume
NA - Not analyzed
RL - Reporting limit
<RL - Not detected

Qualifiers:
D - The concentration reported is a result of a diluted sample.
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.
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