

Survey Date		10/01/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		JETT - Jetting			Comments																					
Tide		Ebb																								
Source Location		B171																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		100118-JETT-E-U												100118-JETT-E-D												
Sample Time		08:59												08:43												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>	S	21.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	37.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	NS												NS												
	B	40.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

Notes: 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

2 Samples collected at the edge of the 500 ft mixing zone

3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

4 S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.

Survey Date		10/01/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		DBRI - Debris Removal			Comments																					
Tide		Ebb																								
Source Location		B168																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		100118-DBRI-E-U												100118-DBRI-E-D												
Sample Time		09:31												09:15												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>	S	35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	47	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	NS												NS												
	B	45.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	69.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

Notes:

<sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

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Survey Date		10/01/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		TIPC - Timber Pile Cap Foundation Removal				Comments																				
Tide		Ebb																								
Source Location		B77																								
Sample Location	Upcurrent (Ambient)												Downcurrent													
Distance to Source	Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>													
Sample ID	100118-TIPC-E-U												100118-TIPC-E-D													
Sample Time	10:23												10:09													
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>	S	NS												NS												
	M	23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
	B	NS												NS												

Notes:

<sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

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Survey Date		10/01/2018																							
Survey Type		V - Vessel Based																							
Construction Activity		SIDI - Silt Displacement				Comments																			
Tide		Ebb																							
Source Location		B172																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
Sample ID		100118-SIDI-E-U												100118-SIDI-E-D											
Sample Time		11:11												10:46											
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	18.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	M	22.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	31.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	B	28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	34.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

<sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

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ND = Not Detected



Survey Date		10/02/2018																							
Survey Type		V - Vessel Based																							
Construction Activity		SIDI - Silt Displacement			Comments																				
Tide		Ebb																							
Source Location		B172																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
Sample ID		100218-SIDI-E-U												100218-SIDI-E-D											
Sample Time		08:50												08:31											
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	12.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	M	15.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	B	24.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	49.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

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Survey Date		10/02/2018																							
Survey Type		V - Vessel Based																							
Construction Activity		DBRI - Debris Removal				Comments																			
Tide		Ebb																							
Source Location		B167																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
Sample ID		100218-DBRI-E-U												100218-DBRI-E-D											
Sample Time		09:13												09:00											
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	20.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	M	NS												NS											
	B	60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	34.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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2 Samples collected at the edge of the 500 ft mixing zone

3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

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Survey Date		10/02/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		TIPC - Timber Pile Cap Foundation Removal				Comments																				
Tide		Ebb																								
Source Location		B72																								
Sample Location	Upcurrent (Ambient)												Downcurrent													
Distance to Source	Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>													
Sample ID	100218-TIPC-E-U												100218-TIPC-E-D													
Sample Time	10:09												09:58													
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>	S	NS												NS												
	M	20.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
	B	NS												NS												

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Survey Date		10/02/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		JETT - Jetting			Comments																					
Tide		Ebb																								
Source Location		B171																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		100218-JETT-E-U												100218-JETT-E-D												
Sample Time		11:30												11:14												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>	S	18.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	27.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	NS												NS												
	B	35.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	24.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

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Survey Date		10/03/2018																							
Survey Type		V - Vessel Based																							
Construction Activity		SIDI - Silt Displacement				Comments																			
Tide		Ebb																							
Source Location		B172																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
Sample ID		100318-SIDI-E-U												100318-SIDI-E-D											
Sample Time		09:35												09:04											
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	10.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	M	13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	B	34.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

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Survey Date		10/03/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		TIPC - Timber Pile Cap Foundation Removal				Comments																				
Tide		Ebb																								
Source Location		B82																								
Sample Location	Upcurrent (Ambient)												Downcurrent													
Distance to Source	Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>													
Sample ID	100318-TIPC-E-U												100318-TIPC-E-D													
Sample Time	11:15												11:04													
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>	S	NS												NS												
	M	35.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	34	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
	B	NS												NS												

Notes:

<sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.

Survey Date		10/03/2018																									
Survey Type		V - Vessel Based																									
Construction Activity		DBRI - Debris Removal				Comments																					
Tide		Ebb																									
Source Location		B168																									
Sample Location		Upcurrent (Ambient)												Downcurrent													
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>													
Sample ID		100318-DBRI-E-U												100318-DBRI-E-D													
Sample Time		13:27												13:13													
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit		(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>		Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>	S	15.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	NS												NS													
	B	25.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	31	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

Notes:

<sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.

Survey Date		10/04/2018																									
Survey Type		V - Vessel Based																									
Construction Activity		JETT - Jetting			Comments																						
Tide		Ebb																									
Source Location		B171																									
Sample Location		Upcurrent (Ambient)												Downcurrent													
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>													
Sample ID		100418-JETT-E-U												100418-JETT-E-D													
Sample Time		08:58												08:42													
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit		(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>		Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>	S	16.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	NS												NS													
	B	25.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

Notes: 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

2 Samples collected at the edge of the 500 ft mixing zone

3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

4 S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.



Survey Date		10/04/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		SIDI - Silt Displacement				Comments																				
Tide		Ebb																								
Source Location		B172																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		100418-SIDI-E-U												100418-SIDI-E-D												
Sample Time		10:40												10:12												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>	S	11.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	44.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	B	25.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

Notes: 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

2 Samples collected at the edge of the 500 ft mixing zone

3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

4 S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

Survey Date		10/04/2018																							
Survey Type		V - Vessel Based																							
Construction Activity		TIPC - Timber Pile Cap Foundation Removal				Comments																			
Tide		Ebb																							
Source Location		B84																							
Sample Location	Upcurrent (Ambient)												Downcurrent												
Distance to Source	Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID	100418-TIPC-E-U												100418-TIPC-E-D												
Sample Time	11:54												11:43												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260			
Unit	(ppm)	(ppb)											(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	
Analytical Result <sup>4</sup>	S	NS												NS											
	M	22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22	ND	ND	ND	ND	ND	ND	ND	ND	ND			
	B	NS												NS											

Notes: 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

2 Samples collected at the edge of the 500 ft mixing zone

3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

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ND = Not Detected

NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.

Survey Date		10/04/2018																							
Survey Type		V - Vessel Based																							
Construction Activity		DBRI - Debris Removal			Comments																				
Tide		Ebb																							
Source Location		B170																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
Sample ID		100418-DBRI-E-U												100418-DBRI-E-D											
Sample Time		14:04												13:49											
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	M	NS												NS											
	B	40.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	47.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes: 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

2 Samples collected at the edge of the 500 ft mixing zone

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\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.

Survey Date		10/05/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		DBRI - Debris Removal			Comments																					
Tide		Flood																								
Source Location		B170																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		100518-DBRI-F-U												100518-DBRI-F-D												
Sample Time		08:41												08:28												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006		
Analytical Result <sup>4</sup>	S	22.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	26.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	NS												NS												
	B	39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	42.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

Notes:

<sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

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NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.

Survey Date		10/05/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		SIDI - Silt Displacement			Comments																					
Tide		Flood																								
Source Location		B172																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		100518-SIDI-F-U												100518-SIDI-F-D												
Sample Time		09:32												09:12												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006		
Analytical Result <sup>4</sup>	S	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	32.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	B	38.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	32.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

Notes: <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

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ND = Not Detected

Survey Date		10/08/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		JETT - Jetting			Comments																					
Tide		Flood																								
Source Location		B171																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		100818-JETT-F-U												100818-JETT-F-D												
Sample Time		09:55												09:31												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006		
Analytical Result <sup>4</sup>	S	59	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	89	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	150	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	140	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	B	339	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	160	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

Notes: <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

Survey Date		10/08/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		TIPC - Timber Pile Cap Foundation Removal				Comments																				
Tide		Flood																								
Source Location		B85																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		100818-TIPC-F-U												100818-TIPC-F-D												
Sample Time		10:42												10:28												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006		
Analytical Result <sup>4</sup>	S	39.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	45	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	NS												NS												
	B	44.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	53.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

Notes:

<sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.

Survey Date		10/08/2018																							
Survey Type		V - Vessel Based																							
Construction Activity		SIDI - Silt Displacement			Comments																				
Tide		Ebb																							
Source Location		B172																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
Sample ID		100818-SIDI-E-U												100818-SIDI-E-D											
Sample Time		15:15												14:52											
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	19.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	31.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	M	75.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	B	129	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	61.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes: 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

2 Samples collected at the edge of the 500 ft mixing zone

3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

4 S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected



Survey Date		10/09/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		SIDI - Silt Displacement			Comments																					
Tide		Flood																								
Source Location		B172																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		100918-SIDI-F-U												100918-SIDI-F-D												
Sample Time		09:02												08:36												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006		
Analytical Result <sup>4</sup>	S	20.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	37.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	50.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	B	99.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	52.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

Notes: <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

Survey Date		10/09/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		TIPC - Timber Pile Cap Removal				Comments																				
Tide		Flood																								
Source Location		B88																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		100918-TIPC-F-U												100918-TIPC-F-D												
Sample Time		10:37												10:18												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006		
Analytical Result <sup>4</sup>	S	43.7	ND	ND	ND	ND	ND	ND	ND	0.69	ND	ND	61	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	NS												NS												
	B	89.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	72.7	ND	ND	ND	ND	ND	ND	ND	ND	1.1	ND	ND	

- Notes:
- <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
  - <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - <sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom
  - <sup>5</sup> Upcurrent (ambient) concentration exceeds the Water Quality Standard, Downcurrent concentration is less than 30% over background.
  - <sup>6</sup> Reported value exceeds the Water Quality Standard as stated in Condition 61 of NYSDEC Permit Facility ID 3-9903-00043/00012-14
- No detection limit or water quality standard
- \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected
- NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.

Survey Date		10/09/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		DBRI - Debris Removal			Comments																					
Tide		Flood																								
Source Location		B181																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		100918-DBRI-F-U												100918-DBRI-F-D												
Sample Time		12:09												11:53												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.000		
Analytical Result <sup>4</sup>	S	33.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	29.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	NS												NS												
	B	49.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	64.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

Notes:

<sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.

Survey Date		10/10/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		SIDI - Silt Displacement			Comments																					
Tide		Flood																								
Source Location		B175																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		101018-SIDI-F-U												101018-SIDI-F-D												
Sample Time		09:03												08:44												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006		
Analytical Result <sup>4</sup>	S	25.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	33.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	B	44.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	43.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

Notes: <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

Survey Date		10/10/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		DBRI - Debris Removal			Comments																					
Tide		Flood																								
Source Location		B181																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		101018-DBRI-F-U												101018-DBRI-F-D												
Sample Time		09:30												09:16												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006		
Analytical Result <sup>4</sup>	S	29.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	42.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	NS												NS												
	B	52.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	45	ND	ND	ND	ND	ND	ND	ND	ND	0.2	ND	ND	

Notes: <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

<sup>5</sup> Reported value exceeds the Water Quality Standard as stated in Condition 61 of NYSDEC Permit Facility ID 3-9903-00043/00012-14

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.

Survey Date		10/10/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		TIPC - Timber Pile Cap Foundation Removal				Comments																				
Tide		Flood																								
Source Location		B91																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		101018-TIPC-F-U												101018-TIPC-F-D												
Sample Time		10:32												10:18												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006		
Analytical Result <sup>4</sup>	S	64.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	71	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	NS												NS												
	B	73	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	67.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

Notes:

<sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.

Survey Date		10/11/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		SIDI - Silt Displacement			Comments																					
Tide		Flood																								
Source Location		B175																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		101118-SIDI-F-U												101118-SIDI-F-D												
Sample Time		10:37												10:13												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006		
Analytical Result <sup>4</sup>	S	32.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	32.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	77.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	46	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	B	102	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	68	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

Notes: <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

Survey Date		10/11/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		TIPC - Timber Pile Cap Foundation Removal				Comments																				
Tide		Flood																								
Source Location		B95																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		101118-TIPC-F-U												101118-TIPC-F-D												
Sample Time		13:20												13:04												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>	S	55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	56	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	NS												NS												
	B	76.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	60.3	ND	ND	ND	ND	ND	ND	ND	ND	0.07	ND	ND	

Notes: <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

<sup>5</sup> Reported value exceeds the Water Quality Standard as stated in Condition 61 of NYSDEC Permit Facility ID 3-9903-00043/00012-14

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.



Survey Date		10/15/2018																							
Survey Type		V - Vessel Based																							
Construction Activity		SIDI - Silt Displacement			Comments																				
Tide		Ebb																							
Source Location		B175																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
Sample ID		101518-SIDI-E-U												101518-SIDI-E-D											
Sample Time		10:30												10:04											
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	19.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	29.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	M	29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	40.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	B	40.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	71.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes: 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

2 Samples collected at the edge of the 500 ft mixing zone

3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

4 S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

Survey Date		10/15/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		TIPC - Timber Pile Cap Foundation Removal				Comments																				
Tide		Flood																								
Source Location		B88																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		101518-TIPC-F-U												101518-TIPC-F-D												
Sample Time		11:26												11:10												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006		
Analytical Result <sup>4</sup>	S	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	NS												NS												
	B	21.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	24.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

Notes:

<sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.

Survey Date		10/16/2018																							
Survey Type		V - Vessel Based																							
Construction Activity		SIDI - Silt Displacement				Comments																			
Tide		Ebb																							
Source Location		B175																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
Sample ID		101618-SIDI-E-U												101618-SIDI-E-D											
Sample Time		11:09												10:42											
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	39.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	M	25.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	43.7	ND	ND	ND	ND	ND	ND	ND	0.03	ND	ND	
	B	29.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	51.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes: <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

<sup>5</sup> Reported value exceeds the Water Quality Standard as stated in Condition 61 of NYSDEC Permit Facility ID 3-9903-00043/00012-14

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

Survey Date		10/16/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		TIPC - Timber Pile Cap Foundation Removal				Comments																				
Tide		Ebb																								
Source Location		B88																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		101618-TIPC-E-U												101618-TIPC-E-D												
Sample Time		09:31												09:22												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>	S	NS												NS												
	M	31.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	81	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	B	NS												NS												

Notes:

<sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.

Survey Date		10/16/2018																							
Survey Type		V - Vessel Based																							
Construction Activity		DBRI - Debris Removal		Comments		Upcurrent results taken from Silt Displacement sampling at same location																			
Tide		Ebb																							
Source Location		B175																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
Sample ID		101618-SIDI-E-U												101618-DBRI-E-D											
Sample Time		11:04												11:29											
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	26.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	M	25.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	B	29.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes: 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

2 Samples collected at the edge of the 500 ft mixing zone

3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

4 S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

Survey Date		10/17/2018																									
Survey Type		V - Vessel Based																									
Construction Activity		TIPC - Timber Pile Cap Foundation Removal				Comments																					
Tide		Ebb																									
Source Location		B40																									
Sample Location		Upcurrent (Ambient)												Downcurrent													
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>													
Sample ID		101718-TIPC-E-U												101718-TIPC-E-D													
Sample Time		09:18												09:10													
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit		(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>		Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>	S	NS												NS													
	M	19.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
	B	NS												NS													

Notes:

<sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.

Survey Date		10/17/2018																									
Survey Type		V - Vessel Based																									
Construction Activity		SIDI - Silt Displacement			Comments			Upcurrent results taken from Debris Removal at same location																			
Tide		Ebb																									
Source Location		B175																									
Sample Location		Upcurrent (Ambient)												Downcurrent													
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>													
Sample ID		101718-DBRI-E-U												101718-SIDI-E-D													
Sample Time		11:24												10:49													
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit		(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>		Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>	S	10.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	12.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	24.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	B	19.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	52.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

Notes: 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

2 Samples collected at the edge of the 500 ft mixing zone

3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

4 S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

Survey Date		10/17/2018																							
Survey Type		V - Vessel Based																							
Construction Activity		DBRI - Debris Removal				Comments																			
Tide		Ebb																							
Source Location		B175																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												650 ft <sup>2</sup>											
Sample ID		101718-DBRI-E-U												101718-DBRI-E-D											
Sample Time		11:24												11:02											
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	10.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	M	12.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	B	19.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	43.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

<sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

<sup>2</sup> Samples collected as close to the edge of the 500 ft mixing zone as practicable, to remain no closer than 500' from other simultaneously occurring activity - Silt Displacement

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected



Survey Date		10/17/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		JETT - Jetting				Comments																				
Tide		Ebb																								
Source Location		B172																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		101718-JETT-E-U												101718-JETT-E-D												
Sample Time		12:15												11:47												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>	S	11.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	14.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	B	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

Notes:

<sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

Survey Date		10/18/2018																									
Survey Type		V - Vessel Based																									
Construction Activity		SIDI - Silt Displacement				Comments																					
Tide		Ebb																									
Source Location		B173																									
Sample Location		Upcurrent (Ambient)												Downcurrent													
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>													
Sample ID		101818-SIDI-E-U												101818-SIDI-E-D													
Sample Time		12:35												12:13													
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit		(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>		Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>	S	10.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
	M	28.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
	B	19.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	61.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			

Notes: 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

2 Samples collected at the edge of the 500 ft mixing zone

3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

4 S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

Survey Date		10/18/2018																							
Survey Type		V - Vessel Based																							
Construction Activity		TIPC - Timber Pile Cap Foundation Removal				Comments																			
Tide		Ebb																							
Source Location		B92																							
Sample Location	Upcurrent (Ambient)												Downcurrent												
Distance to Source	Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID	101818-TIPC-E-U												101818-TIPC-E-D												
Sample Time	13:16												13:07												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260			
Unit	(ppm)	(ppb)											(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	
Analytical Result <sup>4</sup>	S	NS												NS											
	M	10.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30.8	ND	ND	ND	ND	ND	ND	ND	ND	ND			
	B	NS												NS											

Notes: 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

2 Samples collected at the edge of the 500 ft mixing zone

3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

4 S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.

Survey Date		10/19/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		SIDI - Silt Displacement			Comments																					
Tide		Flood																								
Source Location		B173																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		101918-SIDI-F-U												101918-SIDI-F-D												
Sample Time		09:51												09:29												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006		
Analytical Result <sup>4</sup>	S	10.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	B	31.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	44.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

Notes: <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

Survey Date		10/19/2018																							
Survey Type		V - Vessel Based																							
Construction Activity		TIPC - Timber Pile Cap Foundation Removal				Comments																			
Tide		Ebb																							
Source Location		B40																							
Sample Location	Upcurrent (Ambient)												Downcurrent												
Distance to Source	Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID	101918-TIPC-E-U												101918-TIPC-E-D												
Sample Time	10:48												10:39												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260			
Unit	(ppm)	(ppb)											(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	
Analytical Result <sup>4</sup>	S	NS												NS											
	M	18.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	B	NS												NS											

Notes: 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

2 Samples collected at the edge of the 500 ft mixing zone

3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

4 S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.

Survey Date		10/19/2018																							
Survey Type		V - Vessel Based																							
Construction Activity		DBRI - Debris Removal			Comments																				
Tide		Ebb																							
Source Location		B173																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												900 ft <sup>2</sup>											
Sample ID		101918-DBRI-E-U												101918-DBRI-E-D											
Sample Time		12:06												11:42											
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	12.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	M	14.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	B	29.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	33.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

Notes:

<sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

<sup>2</sup> Samples collected as close to the edge of the 500 ft mixing zone as practicable to remain no closer than 500' from other simultaneously occurring activity - Silt Displacement

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

Survey Date		10/22/2018																							
Survey Type		V - Vessel Based																							
Construction Activity		JETT - Jetting			Comments																				
Tide		Flood																							
Source Location		B172																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
Sample ID		102218-JETT-F-U												102218-JETT-F-D											
Sample Time		10:00												09:32											
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260			
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006
Analytical Result <sup>4</sup>	S	21.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	M	27.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	B	41.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes: <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

Survey Date		10/22/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		TIPC - Timber Pile Cap Foundation Removal				Comments																				
Tide		Ebb																								
Source Location		B92																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		102218-TIPC-E-U												102218-TIPC-E-D												
Sample Time		11:01												10:46												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>	S	20.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	NS												NS												
	B	28.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

Notes: 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

2 Samples collected at the edge of the 500 ft mixing zone

3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

4 S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.



Survey Date		10/22/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		DBRI - Debris Removal			Comments																					
Tide		Flood																								
Source Location		B175																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		102218-DBRI-F-U												102218-DBRI-F-D												
Sample Time		11:44												11:19												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006		
Analytical Result <sup>4</sup>	S	22.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	27.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	31.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	B	38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	40.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

Notes: <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

Survey Date		10/22/2018																							
Survey Type		V - Vessel Based																							
Construction Activity		SIDI - Silt Displacement				Comments																			
Tide		Ebb																							
Source Location		B173																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
Sample ID		102218-SIDI-E-U												102218-SIDI-E-D											
Sample Time		13:46												13:23											
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	16.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	M	17.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	B	29.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	41.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes: 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

2 Samples collected at the edge of the 500 ft mixing zone

3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

4 S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

Survey Date		10/23/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		SIDI - Silt Displacement			Comments																					
Tide		Flood																								
Source Location		B173																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		102318-SIDI-F-U												102318-SIDI-F-D												
Sample Time		09:16												08:51												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006		
Analytical Result <sup>4</sup>	S	10.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	35.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	84.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	B	186	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	74.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

Notes: <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

Survey Date		10/23/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		DBRI - Debris Removal				Comments																				
Tide		Flood																								
Source Location		B175																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		102318-DBRI-F-U												102318-DBRI-F-D												
Sample Time		09:55												09:28												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006		
Analytical Result <sup>4</sup>	S	15.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	25.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	62	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	B	95.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

Notes: <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

Survey Date		10/23/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		TIPC - Timber Pile Cap Foundation Removal				Comments																				
Tide		Flood																								
Source Location		B94																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		102318-TIPC-F-U												102318-TIPC-F-D												
Sample Time		10:54												10:39												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006		
Analytical Result <sup>4</sup>	S	35.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	NS												NS												
	B	42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

Notes:

<sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.

Survey Date		10/24/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		SIDI - Silt Displacement			Comments																					
Tide		Flood																								
Source Location		B173																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		102418-SIDI-F-U												102418-SIDI-F-D												
Sample Time		09:17												08:56												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006		
Analytical Result <sup>4</sup>	S	13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	21.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	27.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	B	94	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	83.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

Notes: <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

Survey Date		10/24/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		DBRI - Debris Removal			Comments																					
Tide		Flood																								
Source Location		B175																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		102418-DBRI-F-U												102418-DBRI-F-D												
Sample Time		09:56												09:30												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006		
Analytical Result <sup>4</sup>	S	16.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	24.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	37.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	55.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	B	106	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	68	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

Notes: <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

Survey Date		10/24/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		TIPC - Timber Pile Cap Foundation Removal				Comments																				
Tide		Flood																								
Source Location		B80																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		102418-TIPC-F-U												102418-TIPC-F-D												
Sample Time		10:37												10:24												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006		
Analytical Result <sup>4</sup>	S	37.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	34.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	NS												NS												
	B	30.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

Notes:

<sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.



Survey Date		10/25/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		SIDI - Silt Displacement			Comments																					
Tide		Flood																								
Source Location		B173																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		102518-SIDI-F-U												102518-SIDI-F-D												
Sample Time		09:22												08:53												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006		
Analytical Result <sup>4</sup>	S	18.8	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	29	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	52	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	40.7	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	B	97	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	66.8	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

- Notes:
- <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
  - <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - <sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom
  - <sup>5</sup> Upcurrent (ambient) concentration exceeds the Water Quality Standard, Downcurrent concentration is less than 30% over background.
- No detection limit or water quality standard
- \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected

Survey Date		10/25/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		TIPC - Timber Pile Cap Foundation Removal				Comments																				
Tide		Flood																								
Source Location		B95																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		102518-TIPC-F-U												102518-TIPC-F-D												
Sample Time		10:11												09:58												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006		
Analytical Result <sup>4</sup>	S	47.5	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	75.8	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	NS												NS												
	B	95.3	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	78.8	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND		

- Notes:
- <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
  - <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - <sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom
  - <sup>5</sup> Upcurrent (ambient) concentration exceeds the Water Quality Standard, Downcurrent concentration is less than 30% over background.
- No detection limit or water quality standard
- \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected
- NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.

Survey Date		10/26/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		SIDI - Silt Displacement			Comments																					
Tide		Flood																								
Source Location		B173																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		102618-SIDI-F-U												102618-SIDI-F-D												
Sample Time		9:10												8:46												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006		
Analytical Result <sup>4</sup>	S	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	58.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	31.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	B	161	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	63.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

Notes: <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

Survey Date		10/26/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		TIPC - Timber Pile Cap Foundation Removal				Comments																				
Tide		Flood																								
Source Location		B50																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		102618-TIPC-F-U												102618-TIPC-F-D												
Sample Time		11:37												11:24												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006		
Analytical Result <sup>4</sup>	S	55.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	49.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	NS												NS												
	B	62.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	63.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

Notes:

<sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.

Survey Date		10/29/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		TIPC - Timber Pile Cap Foundation Removal				Comments																				
Tide		Ebb																								
Source Location		B95																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		102918-TIPC-E-U												102918-TIPC-E-D												
Sample Time		09:04												08:55												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>	S	NS												NS												
	M	30.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	35.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	B	NS												NS												

Notes: 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

2 Samples collected at the edge of the 500 ft mixing zone

3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

4 S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.

Survey Date		10/29/2018																							
Survey Type		V - Vessel Based																							
Construction Activity		SIDI - Silt Displacement				Comments																			
Tide		Ebb																							
Source Location		B173																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
Sample ID		102918-SIDI-E-U												102918-SIDI-E-D											
Sample Time		10:27												10:08											
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	11.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	M	16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	B	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	27.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes: 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

2 Samples collected at the edge of the 500 ft mixing zone

3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

4 S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

Survey Date		10/30/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		TIPC - Timber Pile Cap Foundation Removal				Comments																				
Tide		Ebb																								
Source Location		B95																								
Sample Location	Upcurrent (Ambient)												Downcurrent													
Distance to Source	Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>													
Sample ID	103018-TIPC-E-U												103018-TIPC-E-D													
Sample Time	08:56												08:45													
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>	S	NS												NS												
	M	34.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	41.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
	B	NS												NS												

Notes: 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

2 Samples collected at the edge of the 500 ft mixing zone

3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

4 S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.

Survey Date		10/30/2018																							
Survey Type		V - Vessel Based																							
Construction Activity		SIDI - Silt Displacement				Comments																			
Tide		Ebb																							
Source Location		B173																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
Sample ID		103018-SIDI-E-U												103018-SIDI-E-D											
Sample Time		10:19												09:54											
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	16.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	M	18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	B	28.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	34.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes: 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

2 Samples collected at the edge of the 500 ft mixing zone

3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

4 S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected



Survey Date		10/30/2018																									
Survey Type		V - Vessel Based																									
Construction Activity		DBRI - Debris Removal				Comments																					
Tide		Ebb																									
Source Location		B175																									
Sample Location		Upcurrent (Ambient)												Downcurrent													
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>													
Sample ID		103018-DBRI-E-U												103018-DBRI-E-D													
Sample Time		10:56												10:34													
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit		(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>		Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>	S	14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	16.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	B	93	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	21.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

Notes: 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

2 Samples collected at the edge of the 500 ft mixing zone

3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

4 S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

Survey Date		10/31/2018																							
Survey Type		V - Vessel Based																							
Construction Activity		DBRI - Debris Removal				Comments																			
Tide		Ebb																							
Source Location		B175																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												700 ft <sup>2</sup>											
Sample ID		103118-DBRI-E-U												103118-DBRI-E-D											
Sample Time		09:03												08:19											
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	11.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	M	12.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	26.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	B	37.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	44.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

Notes:

<sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

<sup>2</sup> Samples collected as close to the edge of the 500 ft mixing zone as practicable

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

Survey Date		10/31/2018																								
Survey Type		V - Vessel Based																								
Construction Activity		SIDI - Silt Displacement			Comments			Same Upcurrent Sample as Debris Recovery																		
Tide		Ebb																								
Source Location		B175																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		103118-DBRI-E-U												103118-SIDI-E-D												
Sample Time		09:03												08:34												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>	S	11.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	12.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	B	37.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

Notes: 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

2 Samples collected at the edge of the 500 ft mixing zone

3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

4 S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

Survey Date		10/31/2018																							
Survey Type		V - Vessel Based																							
Construction Activity		TIPC - Timber Pile Cap Foundation Removal				Comments																			
Tide		Ebb																							
Source Location		B45																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
Sample ID		103118-TIPC-E-U												103118-TIPC-E-D											
Sample Time		09:53												09:42											
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	NS												NS											
	M	23.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	B	NS												NS											

Notes:

<sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

\* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

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