

Survey Date		03/01/2014																									
Survey Type		V - Vessel Based																									
Construction Activity		PDC - Pile Driving - Zone C				Comments																					
Tide		Ebb																									
Source Location		Pier 31																									
Sample Location		Upcurrent (Ambient)												Downcurrent													
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²													
Sample ID		030114-P031-E-U												030114-P031-E-D													
Sample Time		12:55												12:24													
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 ³		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1		
Water Quality Standard ³		*	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 ⁴	S	34.8	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	28.0	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	ND		
	M	35.2	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND	46.4	ND	ND	ND	ND	18	ND	ND	ND	ND	ND	ND		
	B	44.4	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	ND	52.0	ND	ND	ND	ND	18	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

-- 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.

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

Survey Date		03/10/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		ARM - Armoring			Comments																				
Tide		Flood																							
Source Location		Armoring Operations																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²											
Sample ID		031014-A263-F-U												031014-A263-F-D											
Sample Time		15:23												15:39											
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 ³		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1
Water Quality Standard ³		*	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 ⁴	S	13.6	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	9.60	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND
	M	NS												NS											
	B	59.6	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	15.2	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND

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Survey Type		V - Vessel Based																									
Construction Activity		PDC - Pile Driving - Zone C				Comments																					
Tide		Ebb																									
Source Location		Pier 32																									
Sample Location		Upcurrent (Ambient)												Downcurrent													
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²													
Sample ID		031014-P032-E-U												031014-P032-E-D													
Sample Time		15:05												14:40													
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 ³		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1		
Water Quality Standard ³		*	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 ⁴		S	12.4	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	13.6	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	ND		
		M	10.8	ND	ND	ND	17	ND	ND	ND	ND	ND	ND	16.8	ND	ND	ND	ND	21	ND	ND	ND	ND	ND	ND		
		B	20.4	ND	ND	ND	17	ND	ND	ND	ND	ND	ND	22.8	ND	ND	ND	ND	19	ND	ND	ND	ND	ND	ND		

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Survey Date		03/10/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		PDC - Pile Driving - Zone C			Comments																				
Tide		Flood																							
Source Location		Pier 32																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²											
Sample ID		031014-P032-F-U												031014-P032-F-D											
Sample Time		16:57												16:35											
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 ³		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1
Water Quality Standard ³		*	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 ⁴	S	8.00	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND	7.60	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND
	M	10.0	ND	ND	ND	ND	18	ND	ND	ND	ND	ND	ND	10.0	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND
	B	21.2	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	ND	13.6	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND

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Survey Date		03/11/2014																									
Survey Type		V - Vessel Based																									
Construction Activity		ARM - Armoring				Comments																					
Tide		Ebb																									
Source Location		Armoring Operations																									
Sample Location		Upcurrent (Ambient)												Downcurrent													
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²													
Sample ID		031114-A263-E-U												031114-A263-E-D													
Sample Time		10:10												09:53													
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 ³		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1		
Water Quality Standard ³		*	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 ⁴	S	8.40	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	10.0	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND		
	M	NS												NS													
	B	25.6	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	18.4	ND	ND	ND	ND	18	ND	ND	ND	ND	ND	ND		

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Survey Date		03/11/2014																									
Survey Type		V - Vessel Based																									
Construction Activity		PDC - Pile Driving - Zone C				Comments																					
Tide		Flood																									
Source Location		Pier 32																									
Sample Location		Upcurrent (Ambient)												Downcurrent													
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²													
Sample ID		031114-P032-F-U												031114-P032-F-D													
Sample Time		08:42												08:18													
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 ³		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1		
Water Quality Standard ³		*	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 ⁴	S	7.20	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	11.2	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND		
	M	13.2	ND	ND	ND	ND	19	ND	ND	ND	ND	ND	ND	12.8	ND	ND	ND	ND	21	ND	ND	ND	ND	ND	ND		
	B	17.6	ND	ND	ND	ND	19	ND	ND	ND	ND	ND	ND	22.8	ND	ND	ND	ND	20	ND	ND	ND	ND	ND	ND		

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Survey Date		03/12/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		ARM - Armoring				Comments																			
Tide		Ebb																							
Source Location		Armoring Operations																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²											
Sample ID		031214-A263-E-U												031214-A263-E-D											
Sample Time		11:06												10:45											
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 ³		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1
Water Quality Standard ³		*	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 ⁴	S	ND	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	10.0	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND
	M	NS												NS											
	B	5.20	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	9.20	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND

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Survey Date		03/12/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		ARM - Armoring			Comments																				
Tide		Flood																							
Source Location		Armoring Operations																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²											
Sample ID		031214-A263-F-U												031214-A263-F-D											
Sample Time		8:25												8:44											
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 ³		Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1
Water Quality Standard ³		*	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 ⁴	S	ND	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	5.20	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND
	M	NS												NS											
	B	10.8	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	ND	23.2	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	ND

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Survey Type		V - Vessel Based																							
Construction Activity		ARM - Armoring			Comments																				
Tide		Flood																							
Source Location		Armoring Operations																							
Sample Location	Upcurrent (Ambient)												Downcurrent												
Distance to Source	Approx. 500 - 1000 ft ¹												500 ft ²												
Sample ID	031714-A263-F-U												031714-A263-F-D												
Sample Time	10:49												10:29												
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 ³	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	
Water Quality Standard ³	*	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 ⁴	S	44.0	ND	ND	ND	ND	21	ND	ND	ND	ND	ND	65.6	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND	
	M	NS												NS											
	B	86.4	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	76.4	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	

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Survey Type		V - Vessel Based																									
Construction Activity		PDC - Pile Driving - Zone C				Comments																					
Tide		Ebb																									
Source Location		Pier 32																									
Sample Location		Upcurrent (Ambient)												Downcurrent													
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²													
Sample ID		031714-P032-E-U												031714-P032-E-D													
Sample Time		14:36												14:09													
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 ³		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1		
Water Quality Standard ³		*	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 ⁴		S	24.8	ND	ND	ND	17	ND	ND	ND	ND	ND	ND	24.0	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND		
		M	44.0	ND	ND	ND	16	ND	ND	ND	ND	ND	ND	25.6	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND		
		B	32.4	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	27.6	ND	ND	ND	ND	18	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

-- 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.

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

Survey Date		03/18/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		ARM - Armoring			Comments																				
Tide		Ebb																							
Source Location		Armoring Operations																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²											
Sample ID		031814-A263-E-U												031814-A263-E-D											
Sample Time		15:05												14:41											
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 ³		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1
Water Quality Standard ³		*	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 ⁴	S	22.0	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	44.4	ND	ND	ND	ND	21	ND	ND	ND	ND	ND	ND
	M	NS												NS											
	B	18.8	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND	40.4	ND	ND	ND	ND	17	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
- 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.

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

Survey Date		03/18/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		PDC - Pile Driving - Zone C			Comments																				
Tide		Ebb																							
Source Location		Pier 31																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²											
Sample ID		031814-P031-E-U												031814-P031-E-D											
Sample Time		16:20												15:50											
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 ³		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1
Water Quality Standard ³		*	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 ⁴		S	10.8	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	15.6	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND
		M	16.4	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	14.0	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND
		B	34.0	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	ND	21.6	ND	ND	ND	ND	20	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
 - 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
- ⁴ S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		03/19/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		ARM - Armoring			Comments																				
Tide		Ebb																							
Source Location		Armoring Operations																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²											
Sample ID		031914-A263-E-U												031914-A263-E-D											
Sample Time		14:54												14:40											
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 ³		Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1
Water Quality Standard ³		*	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 ⁴	S	26.8	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	25.2	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND
	M	NS												NS											
	B	37.2	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	27.2	ND	ND	ND	ND	12	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
 - 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.
- ⁴ S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		03/19/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		ARM - Armoring			Comments																				
Tide		Flood																							
Source Location		Armoring Operations																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²											
Sample ID		031914-A263-F-U												031914-A263-F-D											
Sample Time		10:13												09:56											
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 ³		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1
Water Quality Standard ³		*	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 ⁴	S	23.2	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	36.8	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND
	M	NS												NS											
	B	34.0	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	48.0	ND	ND	ND	ND	12	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
 - 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.

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

Survey Date		03/19/2014																								
Survey Type		V - Vessel Based																								
Construction Activity		PDC - Pile Driving - Zone C				Comments																				
Tide		Ebb																								
Source Location		Pier 31																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²												
Sample ID		031914-P031-E-U												031914-P031-E-D												
Sample Time		08:46												08:14												
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 ³		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	
Water Quality Standard ³		*	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 ⁴		S	13.6	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	39.6	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	
		M	45.6	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	40.8	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND
		B	82.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	41.6	ND	ND	ND	ND	14	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
 - 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.
- ⁴ S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		03/19/2014																									
Survey Type		V - Vessel Based																									
Construction Activity		PDC - Pile Driving - Zone C				Comments																					
Tide		Flood																									
Source Location		Pier 31																									
Sample Location		Upcurrent (Ambient)												Downcurrent													
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²													
Sample ID		031914-P031-F-U												031914-P031-F-D													
Sample Time		10:56												10:30													
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 ³		Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard ³		*	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 ⁴	S	14.0	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	12.0	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND		
	M	34.4	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	28.4	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND		
	B	123	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	50.0	ND	ND	ND	ND	13	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

-- 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.

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

Survey Date		03/20/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		ARM - Armoring			Comments																				
Tide		Ebb																							
Source Location		Armoring Operations																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹											500 ft ²												
Sample ID		032014-A263-E-U											032014-A263-E-D												
Sample Time		08:49											08:30												
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 ³		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1
Water Quality Standard ³		*	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 ⁴	S	39.6	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	71.6	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND
	M	NS											NS												
	B	41.2	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	118	ND	ND	ND	ND	16	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
 - 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.
- ⁴ S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		03/20/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		ARM - Armoring			Comments																				
Tide		Flood																							
Source Location		Armoring Operations																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²											
Sample ID		032014-A263-F-U												032014-A263-F-D											
Sample Time		10:54												10:37											
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 ³		Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1
Water Quality Standard ³		*	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 ⁴	S	18.0	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	34.4	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND
	M	NS												NS											
	B	34.8	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	38.0	ND	ND	ND	ND	12	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
 - 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.
- ⁴ S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		03/21/2014																								
Survey Type		V - Vessel Based																								
Construction Activity		ARM - Armoring			Comments																					
Tide		Flood																								
Source Location		Armoring Operations																								
Sample Location	Upcurrent (Ambient)												Downcurrent													
Distance to Source	Approx. 500 - 1000 ft ¹												500 ft ²													
Sample ID	032114-A263-F-U												032114-A263-F-D													
Sample Time	12:00												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 ³	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1		
Water Quality Standard ³	*	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 ⁴	S	36.4	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	41.2	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	
	M	NS												NS												
	B	40.0	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	41.6	ND	ND	ND	ND	12	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
 - 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.
- ⁴ S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		03/24/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		ARM - Armoring			Comments																				
Tide		Ebb																							
Source Location		Armoring Operations																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²											
Sample ID		032414-A263-E-U												032414-A263-E-D											
Sample Time		11:01												10:50											
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 ³		Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1
Water Quality Standard ³		*	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 ⁴	S	38.0	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	90.8	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND
	M	NS												NS											
	B	40.4	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	78.0	ND	ND	ND	ND	13	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

-- 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.

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

Survey Date		03/24/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		ARM - Armoring			Comments																				
Tide		Flood																							
Source Location		Armoring Operations																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²											
Sample ID		032414-A263-F-U												032414-A263-F-D											
Sample Time		15:21												15:07											
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 ³		Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1
Water Quality Standard ³		*	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 ⁴	S	44.0	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	38.8	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND
	M	NS												NS											
	B	46.4	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	61.6	ND	ND	ND	ND	13	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

-- 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.

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

Survey Date		03/25/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		ARM - Armoring			Comments																				
Tide		Ebb																							
Source Location		Armoring Operations																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹											500 ft ²												
Sample ID		032514-A263-E-U											032514-A263-E-D												
Sample Time		10:19											10:02												
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 ³	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	
Water Quality Standard ³	*	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 ⁴	S	32.0	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	20.4	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND
	M	NS											NS												
	B	65.2	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	19.6	ND	ND	ND	ND	13	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

- 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.

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

Survey Date		03/25/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		ARM - Armoring				Comments																			
Tide		Flood																							
Source Location		Armoring Operations																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²											
Sample ID		032514-A263-F-U												032514-A263-F-D											
Sample Time		15:01												14:45											
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 ³		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1
Water Quality Standard ³		*	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 ⁴	S	38.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	56.0	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND
	M	NS												NS											
	B	33.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	51.2	ND	ND	ND	ND	13	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
 - 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.
- ⁴ S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		03/25/2014																								
Survey Type		V - Vessel Based																								
Construction Activity		PDC - Pile Driving - Zone C				Comments																				
Tide		Flood																								
Source Location		Pier 32																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²												
Sample ID		032514-P032-F-U												032514-P032-F-D												
Sample Time		17:38												17:11												
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 ³	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1		
Water Quality Standard ³	*	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 ⁴	S	10.4	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	38.0	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND		
	M	16.4	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	17.6	ND	ND	ND	ND	18	ND	ND	ND	ND	ND	ND		
	B	52.0	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	119	ND	ND	ND	ND	19	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
 - 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.
- ⁴ S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		03/26/2014																								
Survey Type		V - Vessel Based																								
Construction Activity		ARM - Armoring				Comments																				
Tide		Ebb																								
Source Location		Armoring Operations																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²												
Sample ID		032614-A263-E-U												032614-A263-E-D												
Sample Time		09:53												09:37												
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 ³	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1		
Water Quality Standard ³	*	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 ⁴	S	21.2	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	41.6	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	
	M	NS												NS												
	B	28.8	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	50.8	ND	ND	ND	ND	11	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
 - 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.
⁴ S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		03/26/2014																								
Survey Type		V - Vessel Based																								
Construction Activity		ARM - Armoring				Comments																				
Tide		Flood																								
Source Location		Armoring Operations																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²												
Sample ID		032614-A263-F-U												032614-A263-F-D												
Sample Time		8:11												8:29												
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 ³		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1
Water Quality Standard ³		*	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 ⁴	S	10.4	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	23.6	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	
	M	NS												NS												
	B	9.60	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	26.4	ND	ND	ND	ND	12	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
 - 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.
- ⁴ S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		03/27/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		ARM - Armoring				Comments																			
Tide		Ebb																							
Source Location		Armoring Operations																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²											
Sample ID		032714-A263-E-U												032714-A263-E-D											
Sample Time		10:14												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 ³		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1
Water Quality Standard ³		*	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 ⁴	S	25.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	26.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	M	NS												NS											
	B	34.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	42.4	ND	ND	ND	ND	11	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

-- 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.

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

Survey Date		03/27/2014																								
Survey Type		V - Vessel Based																								
Construction Activity		ARM - Armoring				Comments																				
Tide		Flood																								
Source Location		Armoring Operations																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²												
Sample ID		032714-A263-F-U												032714-A263-F-D												
Sample Time		08:18												08:04												
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 ³	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	
Water Quality Standard ³	*	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 ⁴	S	34.4	ND	ND	3.3	ND	ND	ND	ND	ND	ND	ND	42.0	ND	ND	3.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	M	NS												NS												
	B	49.2	ND	ND	3.7	ND	11	ND	ND	ND	ND	ND	ND	37.2	ND	ND	4.9	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

- 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.

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

Survey Date		03/27/2014																								
Survey Type		V - Vessel Based																								
Construction Activity		PDC - Pile Driving - Zone C				Comments																				
Tide		Ebb																								
Source Location		Pier 32																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²												
Sample ID		032714-P032-E-U												032714-P032-E-D												
Sample Time		10:57												10:38												
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 ³	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1		
Water Quality Standard ²	*	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 ⁴	S	11.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16.4	ND	ND	3.8	ND	10	ND	ND	ND	ND	ND	ND		
	M	26.8	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	26.4	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND		
	B	32.8	ND	ND	3.2	ND	12	ND	ND	ND	ND	ND	26.4	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
 - 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
 - 4 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.
 S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		03/27/2014																								
Survey Type		V - Vessel Based																								
Construction Activity		PDC - Pile Driving - Zone C					Comments																			
Tide		Flood																								
Source Location		Pier 32																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²												
Sample ID		032714-P032-F-U												032714-P032-F-D												
Sample Time		09:13												08:49												
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 ³		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1
Water Quality Standard ³		*	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 ⁴	S	11.6	ND	ND	3.5	ND	ND	ND	ND	ND	ND	ND	ND	10.8	ND	ND	4.5	ND	ND	ND	ND	ND	ND	ND	ND	
	M	32.4	ND	ND	3.5	ND	14	ND	ND	ND	ND	ND	ND	23.6	ND	ND	3.2	ND	13	ND	ND	ND	ND	ND	ND	
	B	44.8	ND	ND	4.0	ND	14	ND	ND	ND	ND	ND	ND	32.0	ND	ND	3.8	ND	11	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

- 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.

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

Survey Date		03/28/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		ARM - Armoring				Comments																			
Tide		Ebb																							
Source Location		Armoring Operations																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²											
Sample ID		032814-A263-E-U												032814-A263-E-D											
Sample Time		12:22												12:09											
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 ³		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1
Water Quality Standard ³		*	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 ⁴	S	27.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	65.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	M	NS												NS											
	B	30.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	109	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
 - 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.
- ⁴ S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		03/28/2014																								
Survey Type		V - Vessel Based																								
Construction Activity		ARM - Armoring				Comments																				
Tide		Flood																								
Source Location		Armoring Operations																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²												
Sample ID		032814-A263-F-U												032814-A263-F-D												
Sample Time		08:26												08:08												
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 ³	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1		
Water Quality Standard ³	*	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 ⁴	S	44.8	ND	ND	3.0	ND	ND	ND	ND	ND	ND	ND	58.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	NS												NS												
	B	56.0	ND	ND	3.2	ND	ND	ND	ND	ND	ND	ND	ND	69.6	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
 - 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.
- ⁴ S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		03/29/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		ARM - Armoring			Comments																				
Tide		Ebb																							
Source Location		Armoring Operations																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²											
Sample ID		032914-A263-E-U												032914-A263-E-D											
Sample Time		11:52												11:39											
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 ³		Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1
Water Quality Standard ³		*	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 ⁴	S	44.8	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	46.4	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND
	M	NS												NS											
	B	44.4	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	ND	40.4	ND	ND	ND	ND	16	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

-- 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

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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.

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

Survey Date		03/29/2014																								
Survey Type		V - Vessel Based																								
Construction Activity		ARM - Armoring			Comments																					
Tide		Flood																								
Source Location		Armoring Operations																								
Sample Location	Upcurrent (Ambient)												Downcurrent													
Distance to Source	Approx. 500 - 1000 ft ¹												500 ft ²													
Sample ID	032914-A263-F-U												032914-A263-F-D													
Sample Time	10:24												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 ³	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard ³	*	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 ⁴	S	43.2	ND	ND	ND	ND	24	ND	ND	ND	ND	ND	ND	49.6	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	
	M	NS												NS												
	B	58.0	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	53.2	ND	ND	ND	ND	12	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

-- 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

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