

Survey Date		07/01/2014																							
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		070114-A263-E-U											070114-A263-E-D												
Sample Time		09:08											08:54												
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 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	NS											NS												
	M	20.4	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	47.2	ND	ND	ND	ND	11	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
 - 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		07/01/2014																							
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		070114-A263-F-U											070114-A263-F-D												
Sample Time		11:27											11:08												
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	35.2	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	27.2	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND
	M	NS											NS												
	B	40.8	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	32.0	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND

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Survey Date		07/02/2014																							
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		070214-A263-E-U											070214-A263-E-D												
Sample Time		09:19											09:02												
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	NS											NS												
	M	46.0	ND	ND	3.1	ND	11	ND	ND	ND	ND	ND ⁵	ND ⁵	40.4	ND	ND	3.0	ND	ND	ND	ND	ND	ND	ND ⁵	ND ⁵
	B	NS											NS												

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 - ² Samples collected at the edge of the 500 ft mixing zone
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- ⁵ Indicates that parameter was initially analyzed within the recommended hold time and that a re-run was performed outside of the hold time.

Survey Date		07/02/2014																							
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	070214-A263-F-U											070214-A263-F-D													
Sample Time	10:54											11:10													
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(e)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(e)pyrene	
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	NS											NS												
	M	91.2	ND	ND	3.3	ND	10	ND	ND	ND	ND	ND ⁵	ND ⁵	57.2	ND	ND	3.6	ND	11	ND	ND	ND	ND	ND ⁵	ND ⁵
	B	NS											NS												

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

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Survey Date		07/03/2014																						
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	070314-A263-E-U											070314-A263-E-D												
Sample Time	09:08											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
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	NS											NS											
	M	28.8	ND	ND	3.3	ND	11	ND	ND	ND	ND	ND	36.4	ND	ND	3.3	ND	12	ND	ND	ND	ND	ND	ND
	B	NS											NS											

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

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Survey Date		07/03/2014																							
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		070314-A263-F-U											070314-A263-F-D												
Sample Time		11:02											11:18												
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	NS											NS												
	M	31.2	ND	ND	3.4	ND	15	ND	ND	ND	ND	ND	ND	38.0	ND	ND	3.2	ND	14	ND	ND	ND	ND	ND	ND
	B	NS											NS												

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

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Survey Date		07/07/2014																						
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	070714-A263-E-U											070714-A263-E-D												
Sample Time	09:01											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
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	18.8	ND	ND	3.5	ND	ND	ND	ND	ND	ND	ND	29.6	ND	ND	3.5	ND	10	ND	ND	ND	ND	ND	ND
	M	NS											NS											
	B	23.2	ND	ND	3.4	ND	ND	ND	ND	ND	ND	ND	ND	42.4	ND	ND	3.5	ND	11	ND	ND	ND	ND	ND

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Survey Date		07/07/2014																							
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		070714-A263-F-U											070714-A263-F-D												
Sample Time		14:19											14:04												
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	NS											NS												
	M	26.8	ND	ND	3.8	ND	ND	ND	ND	ND	ND	ND	ND	40.8	ND	ND	3.5	ND	ND	ND	ND	ND	ND	ND	ND
	B	NS											NS												

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

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Survey Date		07/08/2014																						
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	070814-A263-E-U											070814-A263-E-D												
Sample Time	10:41											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
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	NS											NS											
	M	19.6	ND	ND	3.9	ND	11	ND	ND	ND	ND	ND	30.0	ND	ND	4.1	ND	12	ND	ND	ND	ND	ND	ND
	B	NS											NS											

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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		070814-A263-F-U											070814-A263-F-D												
Sample Time		15:17											15:08												
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	NS											NS												
	M	19.2	ND	ND	3.8	ND	11	ND	ND	ND	ND	ND	ND	27.2	ND	ND	3.9	ND	10	ND	ND	ND	ND	ND	ND
	B	NS											NS												

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Survey Date		07/08/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		PDC - Pile Driving - Zone C					Comments																		
Tide		Flood																							
Source Location		Pier 33																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹											500 ft ²												
Sample ID		070814-P033-F-U											070814-P033-F-D												
Sample Time		16:52											16:36												
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 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	11.2	ND	ND	3.9	ND	12	ND	ND	ND	ND	ND	ND	12.8	ND	ND	3.9	ND	11	ND	ND	ND	ND	ND	ND
	M	22.8	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	15.2	ND	ND	3.8	ND	12	ND	ND	ND	ND	ND	ND
	B	11.2	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	66.8	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		07/09/2014																						
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	070914-A263-E-U											070914-A263-E-D												
Sample Time	11:28											11:12												
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
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	NS											NS											
	M	31.2	ND	ND	4.3	ND	11	ND	ND	ND	ND	ND	34.0	ND	ND	4.3	ND	11	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

-- 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		07/09/2014																							
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		070914-A263-F-U											070914-A263-F-D												
Sample Time		08:58											08:39												
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	24.8	ND	ND	4.4	ND	12	ND	ND	ND	ND	ND	ND	56.8	ND	ND	4.0	ND	12	ND	ND	ND	ND	ND	ND
	M	NS											NS												
	B	24.0	ND	ND	4.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	60.0	ND	ND	4.1	ND	12	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

Survey Date		07/09/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		PDC - Pile Driving - Zone C					Comments																		
Tide		Flood																							
Source Location		Pier 33																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹											500 ft ²												
Sample ID		070914-P033-F-U											070914-P033-F-D												
Sample Time		08:12											07:50												
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	12.4	ND	ND	4.2	ND	11	ND	ND	ND	ND	ND	ND	41.5	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND
	M	23.6	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	92.8	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND
	B	98.0	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	14.0	ND	ND	4.0	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		07/10/2014																						
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	071014-A263-E-U											071014-A263-E-D												
Sample Time	10:52											10:35												
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
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	30.4	ND	ND	3.9	ND	14	ND	ND	ND	ND	ND	32.0	ND	ND	3.7	ND	11	ND	ND	ND	ND	ND	ND
	M	NS											NS											
	B	23.2	ND	ND	3.8	ND	11	ND	ND	ND	ND	ND	ND	27.2	ND	ND	3.6	ND	17	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		07/10/2014																							
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		071014-A263-F-U											071014-A263-F-D												
Sample Time		08:54											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 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	24.4	ND	ND	4.1	ND	ND	ND	ND	ND	ND	ND	ND	28.8	ND	ND	4.0	ND	ND	ND	ND	ND	ND	ND	ND
	M	NS											NS												
	B	29.6	ND	ND	4.1	ND	11	ND	ND	ND	ND	ND	ND	29.6	ND	ND	4.2	ND	10	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		07/11/2014																						
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	071114-A263-E-U											071114-A263-E-D												
Sample Time	11:56											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
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	NS											NS											
	M	26.8	ND	ND	3.7	ND	11	ND	ND	ND	ND	ND	29.6	ND	ND	3.5	ND	10	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

-- 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

Survey Date		07/11/2014																							
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		071114-A263-F-U											071114-A263-F-D												
Sample Time		09:17											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 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	3.6	ND	11	ND	ND	ND	ND	ND	ND	46.4	ND	ND	3.8	ND	11	ND	ND	ND	ND	ND	ND
	M	NS											NS												
	B	42.8	ND	ND	3.8	ND	11	ND	ND	ND	ND	ND	ND	127	ND	ND	3.9	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		07/12/2014																							
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		071214-A263-F-U											071214-A263-F-D												
Sample Time		09:26											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 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	3.3	ND	12	ND	ND	ND	ND	ND	ND	48.8	ND	ND	3.7	ND	11	ND	ND	ND	ND	ND	ND
	M	NS											NS												
	B	62.0	ND	ND	4.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	48.8	ND	ND	3.6	ND	13	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

Survey Date		07/14/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		PDC - Pile Driving - Zone C					Comments																		
Tide		Flood																							
Source Location		Pier 33																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹											500 ft ²												
Sample ID		071414-P033-F-U											071414-P033-F-D												
Sample Time		13:40											13:17												
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	31.6	ND	ND	3.0	ND	11	ND	ND	ND	ND	ND	ND	39.2	ND	ND	3.2	ND	ND	ND	ND	ND	ND	ND	ND
	M	53.6	ND	ND	3.2	ND	11	ND	ND	ND	ND	ND	ND	49.6	ND	ND	3.2	ND	11	ND	ND	ND	ND	ND	ND
	B	72.8	ND	ND	3.4	ND	ND	ND	ND	ND	ND	ND	ND	66.4	ND	ND	3.3	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		07/16/2014																						
Survey Type		V - Vessel Based																						
Construction Activity		PDC - Pile Driving - Zone C						Comments																
Tide		Ebb																						
Source Location		Pier 33																						
Sample Location	Upcurrent (Ambient)												Downcurrent											
Distance to Source	Approx. 500 - 1000 ft ¹												500 ft ²											
Sample ID	071614-P033-E-U												071614-P033-E-D											
Sample Time	17:07												17:24											
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	24.4	ND	ND	4.3	ND	11	ND	ND	ND	ND	ND	24.0	ND	ND	4.7	ND	12	ND	ND	ND	ND	ND	ND
	M	20.0	ND	ND	3.9	ND	11	ND	ND	ND	ND	ND	28.4	ND	ND	6.5 ⁵	ND	25	ND	ND	ND	ND	ND	ND
	B	27.2	ND	ND	4.0	ND	11	ND	ND	ND	ND	ND	28.0	ND	ND	4.0	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

5 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		07/17/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		PDC - Pile Driving - Zone C					Comments																		
Tide		Flood																							
Source Location		Pier 33																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹											500 ft ²												
Sample ID		071714-P033-F-U											071714-P033-F-D												
Sample Time		16:33											16:09												
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	25.6	ND	ND	4.3	ND	11	ND	ND	ND	ND	ND	ND	38.0	ND	ND	4.4	ND	11	ND	ND	ND	ND	ND	ND
	M	48.4	ND	ND	4.3	ND	11	ND	ND	ND	ND	ND	ND	45.6	ND	ND	4.4	ND	11	ND	ND	ND	ND	ND	ND
	B	68.0	ND	ND	4.2	ND	ND	ND	ND	ND	ND	ND	ND	53.6	ND	ND	4.4	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

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		07/22/2014																						
Survey Type		V - Vessel Based																						
Construction Activity		PDC - Pile Driving - Zone C						Comments																
Tide		Ebb																						
Source Location		Pier 33																						
Sample Location		Upcurrent (Ambient)											Downcurrent											
Distance to Source		Approx. 500 - 1000 ft ¹											500 ft ²											
Sample ID		072214-P033-E-U											072214-P033-E-D											
Sample Time		15:16											15:00											
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 ³	Ambient + 100	0.1	--	--	--	--	0.1	0.1	0.1	0.1	--	0.1	Ambient + 100	0.1	--	--	--	--	0.1	0.1	0.1	0.1	--	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	7.80	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.4	ND	ND	ND	ND	6.9	ND	ND	ND	ND	ND	ND
	M	14.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	B	16.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.80	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

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		07/22/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		PDC - Pile Driving - Zone C					Comments																		
Tide		Flood																							
Source Location		Pier 33																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹											500 ft ²												
Sample ID		072214-P033-F-U											072214-P033-F-D												
Sample Time		16:11											15:56												
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	0.1	-	-	-	-	0.1	0.1	0.1	0.1	-	0.1	Ambient + 100	0.1	-	-	-	-	0.1	0.1	0.1	0.1	-	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	7.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	M	9.80	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	B	15.6	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND	15.8	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

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		07/28/2014																						
Survey Type		V - Vessel Based																						
Construction Activity		PDC - Pile Driving - Zone C					Comments																	
Tide		Ebb																						
Source Location		Pier 30																						
Sample Location	Upcurrent (Ambient)												Downcurrent											
Distance to Source	Approx. 500 - 1000 ft ¹												500 ft ²											
Sample ID	072814-P030-E-U												072814-P030-E-D											
Sample Time	14:54												14:32											
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
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	4.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	M	9.20	ND	ND	ND	ND	5.0	ND	ND	ND	ND	ND	11.0	ND	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND
	B	15.8	ND	ND	ND	ND	6.3	ND	ND	ND	ND	ND	14.4	ND	ND	ND	ND	6.5	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		07/30/2014																						
Survey Type		V - Vessel Based																						
Construction Activity		PDC - Pile Driving - Zone C					Comments																	
Tide		Flood																						
Source Location		Pier 30																						
Sample Location	Upcurrent (Ambient)												Downcurrent											
Distance to Source	Approx. 500 - 1000 ft ¹												500 ft ²											
Sample ID	073014-P030-F-U												073014-P030-F-D											
Sample Time	11:17												10:56											
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(e)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(e)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	8.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.8	ND	ND	ND	ND	5.8	ND	ND	ND	ND	ND	ND
	M	16	ND	ND	ND	ND	6.0	ND	ND	ND	ND	ND	12.6	ND	ND	ND	ND	6.1	ND	ND	ND	ND	ND	ND
	B	34	ND	ND	ND	ND	6.2	ND	ND	ND	ND	ND	ND	116.8	ND	ND	ND	ND	6.5	ND	ND	ND	ND	0.04

- 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		07/31/2014																						
Survey Type		V - Vessel Based																						
Construction Activity		PDC - Pile Driving - Zone C				Comments																		
Tide		Flood																						
Source Location		Pier 30																						
Sample Location	Upcurrent (Ambient)											Downcurrent												
Distance to Source	Approx. 500 - 1000 ft ¹											500 ft ²												
Sample ID	073114-P030-F-U											073114-P030-F-D												
Sample Time	12:19											12:42												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(e)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(e)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	6.6	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	7.4	ND	ND	2.5	ND	12	ND	ND	ND	ND	ND	ND
	M	16.2	ND	ND	ND	7.0	11	ND	ND	ND	ND	ND	16.6	ND	ND	ND	ND	9.7	ND	ND	ND	ND	ND	ND
	B	68.8	ND	ND	2.3	ND	11	ND	ND	ND	ND	ND	ND	78.4	ND	ND	2.3	1.7	10	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