

Survey Date		10/15/2013																							
Survey Type		V - Vessel Based																							
Construction Activity		DRR - Dredging					Comments																		
Tide		Ebb																							
Source Location		Dredge 506																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹											500 ft ²												
Sample ID		101513-D506-E-U											101513-D506-E-D												
Sample Time		10:47											11:02												
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
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	16.0	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	33.6	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND
	M	NS											NS												
	B	15.2	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND	39.2	ND	ND	ND	ND	15	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.
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Survey Date		10/15/2013																								
Survey Type		V - Vessel Based																								
Construction Activity		DRR - Dredging					Comments																			
Tide		Flood																								
Source Location		Dredge 506																								
Sample Location		Upcurrent (Ambient)											Downcurrent													
Distance to Source		Approx. 500 - 1000 ft ¹											500 ft ²													
Sample ID		101513-D506-F-U											101513-D506-F-D													
Sample Time		08:42											08:27													
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	14.4	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	33.2	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND
		M	NS											NS												
		B	21.2	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	ND	34.4	ND	ND	ND	ND	17	ND	ND	ND	ND	ND

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Survey Date		10/15/2013																							
Survey Type		V - Vessel Based																							
Construction Activity		DRR - Dredging					Comments																		
Tide		Ebb																							
Source Location		Dredge 551																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹											500 ft ²												
Sample ID		101513-D551-E-U											101513-D551-E-D												
Sample Time		12:36											12:46												
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
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	21.6	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	19.2	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND
	B	NS											NS												

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Survey Date		10/15/2013																								
Survey Type		V - Vessel Based																								
Construction Activity		DRR - Dredging					Comments																			
Tide		Flood																								
Source Location		Dredge 551																								
Sample Location		Upcurrent (Ambient)											Downcurrent													
Distance to Source		Approx. 500 - 1000 ft ¹											500 ft ²													
Sample ID		101513-D551-F-U											101513-D551-F-D													
Sample Time		07:57											08:11													
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	
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	18.0	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	82.8	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND
		B	NS											NS												

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Survey Type		V - Vessel Based																							
Construction Activity		DRR - Dredging					Comments																		
Tide		Ebb																							
Source Location		Dredge 551																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹											500 ft ²												
Sample ID		101613-D551-E-U											101613-D551-E-D												
Sample Time		11:16											11:06												
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	17.5	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	42.0	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND
	B	NS											NS												

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Survey Type		V - Vessel Based																							
Construction Activity		DRR - Dredging					Comments																		
Tide		Flood																							
Source Location		Dredge 551																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹											500 ft ²												
Sample ID		101613-D551-F-U											101613-D551-F-D												
Sample Time		08:59											08:41												
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	16.8	ND	ND	ND	ND	31	ND	ND	ND	ND	ND	ND	16.4	ND	ND	ND	ND	20	ND	ND	ND	ND	ND
		M	NS											NS											
		B	24.0	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	ND	42.4	ND	ND	ND	ND	15	ND	ND	ND	ND

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Survey Type		V - Vessel Based																							
Construction Activity		DRR - Dredging					Comments																		
Tide		Ebb																							
Source Location		Decant Operations																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹											500 ft ²												
Sample ID		101713-D211-E-U											101713-D211-E-D												
Sample Time		14:36											14:54												
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	10.8	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	31.2	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND
	M	NS											NS												
	B	37.6	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	ND	30.8	ND	ND	ND	ND	13	ND	ND	ND	ND	ND

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Survey Type		V - Vessel Based																								
Construction Activity		DRR - Dredging					Comments																			
Tide		Flood																								
Source Location		Dredge 506																								
Sample Location		Upcurrent (Ambient)											Downcurrent													
Distance to Source		Approx. 500 - 1000 ft ¹											500 ft ²													
Sample ID		101713-D506-F-U											101713-D506-F-D													
Sample Time		10:06											09:48													
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	19.2	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	34.0	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND
		M	NS											NS												
		B	22.0	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	ND	43.2	ND	ND	ND	ND	14	ND	ND	ND	ND	ND

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Survey Type		V - Vessel Based																							
Construction Activity		DRR - Dredging					Comments																		
Tide		Ebb																							
Source Location		Dredge 551																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹											500 ft ²												
Sample ID		101713-D551-E-U											101713-D551-E-D												
Sample Time		12:39											12:21												
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	12.4	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	16.8	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND
	M	NS											NS												
	B	16.8	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	26.0	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND

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Construction Activity		DRR - Dredging					Comments																			
Tide		Flood																								
Source Location		Dredge 551																								
Sample Location		Upcurrent (Ambient)											Downcurrent													
Distance to Source		Approx. 500 - 1000 ft ¹											500 ft ²													
Sample ID		101713-D551-F-U											101713-D551-F-D													
Sample Time		10:44											10:26													
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	17.6	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	20.0	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND
		M	NS											NS												
		B	20.0	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	ND	28.0	ND	ND	ND	ND	15	ND	ND	ND	ND	ND

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Construction Activity		DRR - Dredging					Comments																		
Tide		Ebb																							
Source Location		Decant Operations																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹											500 ft ²												
Sample ID		101813-D211-E-U											101813-D211-E-D												
Sample Time		14:28											14:44												
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	22.8	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	40.4	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND
	M	NS											NS												
	B	44.4	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	ND	52.4	ND	ND	ND	ND	14	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		10/18/2013																							
Survey Type		V - Vessel Based																							
Construction Activity		DRR - Dredging					Comments																		
Tide		Ebb																							
Source Location		Dredge 506																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹											500 ft ²												
Sample ID		101813-D506-E-U											101813-D506-E-D												
Sample Time		15:35											15:19												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260			
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit 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	24.0	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	53.2	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	ND	53.6	ND	ND	ND	ND	14	ND	ND	ND	ND	ND

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Survey Date		10/18/2013																								
Survey Type		V - Vessel Based																								
Construction Activity		DRR - Dredging					Comments																			
Tide		Ebb																								
Source Location		Dredge 551																								
Sample Location		Upcurrent (Ambient)											Downcurrent													
Distance to Source		Approx. 500 - 1000 ft ¹											500 ft ²													
Sample ID		101813-D551-E-U											101813-D551-E-D													
Sample Time		15:09											14:58													
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	
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	54.8	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	40.4	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND
		B	NS											NS												

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