

Date		8/2/13																							
Survey Type		V - Vessel Based																							
Construction Activity		DRR - Dredging				Comments																			
Tide		Ebb																							
Source Location		Dredge No. 551																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
Sample ID		080213-551-E-U												080213-551-E-D											
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260			
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.05	-	-	-	-	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 <sup>3</sup>		*	0.0007	8.2	5.6	8	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8	66	-	-	-	-	16	0.0006
Analytical Result <sup>4</sup>	S	9.20	ND	ND	4.2	ND	16	ND	ND	ND	ND	ND	ND	9.60	ND	ND	4.6	ND	12	ND	ND	ND	ND	ND	ND
	M	9.20	ND	ND	4.6	ND	17	ND	ND	ND	ND	ND	ND	13.2	ND	ND	4.3	ND	18	ND	ND	ND	ND	ND	ND
	B	8.80	ND	ND	4.4	ND	33	ND	ND	ND	ND	ND	ND	12.8	ND	ND	4.2	ND	17	ND	ND	ND	ND	ND	ND

Notes:

<sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible<sup>2</sup> Samples were collected at the edge of the 500 ft mixing zone<sup>3</sup> Based on New York State Department of Environmental Conservation 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

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

Date		8/2/13																									
Survey Type		V - Vessel Based																									
Construction Activity		DRR - Dredging				Comments																					
Tide		Ebb																									
Source Location		Dredge No. 506																									
Sample Location		Upcurrent (Ambient)												Downcurrent													
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>													
Sample ID		080213-506-E-U												080213-506-E-D													
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit		(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>		Ambient + 100	0.05	--	--	--	--	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 <sup>3</sup>		*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>		S	10.4	ND	ND	4.3	ND	17	ND	ND	ND	ND	ND	53.6	ND	ND	4.0	ND	17	ND	ND	ND	ND	ND	ND		
		M	15.6	ND	ND	4.7	ND	15	ND	ND	ND	ND	ND	48.4	ND	ND	4.2	ND	16	ND	ND	ND	ND	ND	ND		
		B	13.2	ND	ND	5.2	ND	15	ND	ND	ND	ND	ND	66.4	ND	ND	4.2	ND	16	ND	ND	ND	ND	ND	ND		

Notes:

<sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone<sup>3</sup> Based on New York State Department of Environmental Conservation 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

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

Date		8/3/13																									
Survey Type		V - Vessel Based																									
Construction Activity		DRR - Dredging				Comments																					
Tide		Ebb																									
Source Location		Dredge No. 551																									
Sample Location		Upcurrent (Ambient)												Downcurrent													
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>													
Sample ID		080313-551-E-U												080313-551-E-D													
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit		(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>		Ambient + 100	0.05	-	-	-	-	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 <sup>3</sup>		*	0.0007	8.2	5.6	8	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8	66	-	-	-	-	16	0.0006		
Analytical Result <sup>4</sup>		S	8.00	ND	ND	4.5	ND	15	ND	ND	ND	ND	ND	22.0	ND	ND	4.2	ND	23	ND	ND	ND	ND	ND	ND		
		M	9.60	ND	ND	4.3	ND	17	ND	ND	ND	ND	ND	13.6	ND	ND	4.5	ND	17	ND	ND	ND	ND	ND	ND		
		B	10.0	ND	ND	4.5	ND	18	ND	ND	ND	ND	ND	16.0	ND	ND	4.4	ND	50	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 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  
S = Near Surface, M = Mid-Depth, B = Near Bottom

Date		8/3/13																									
Survey Type		V - Vessel Based																									
Construction Activity		DRR - Dredging				Comments																					
Tide		Flood																									
Source Location		Dredge No. 506																									
Sample Location		Upcurrent (Ambient)												Downcurrent													
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>													
Sample ID		080313-506-F-U												080313-506-F-D													
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit		(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>		Ambient + 100	0.05	--	--	--	--	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 <sup>3, 5</sup>		*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>		S	9.20	ND	ND	4.1	ND	15	ND	ND	ND	ND	ND	ND	12.0	ND	ND	4.1	ND	19	ND	ND	ND	ND	ND		
		M	8.40	ND	ND	4.2	ND	14	ND	ND	ND	ND	ND	ND	10.4	ND	ND	4.1	ND	18	ND	ND	ND	ND	ND		
		B	9.60	ND	ND	3.9	ND	15	ND	ND	ND	ND	ND	ND	12.0	ND	ND	4.5	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 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
- <sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

Date		8/3/13																									
Survey Type		V - Vessel Based																									
Construction Activity		DRR - Dredging				Comments																					
Tide		Ebb																									
Source Location		Dredge No. 506																									
Sample Location		Upcurrent (Ambient)												Downcurrent													
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>													
Sample ID		080313-506-E-U												080313-506-E-D													
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit		(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>		Ambient + 100	0.05	-	-	-	-	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 <sup>3</sup>		*	0.0007	8.2	5.6	8	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8	66	-	-	-	-	16	0.0006		
Analytical Result <sup>4</sup>		S	12.8	ND	ND	4.4	ND	15	ND	ND	ND	ND	ND	17.2	ND	ND	4.0	ND	14	ND	ND	ND	ND	ND	ND		
		M	12.0	ND	ND	4.3	ND	14	ND	ND	ND	ND	ND	51.2	ND	ND	4.3	ND	14	ND	ND	ND	ND	ND	ND		
		B	13.2	ND	ND	4.3	ND	15	ND	ND	ND	ND	ND	3.80	ND	ND	4.1	ND	16	ND	ND	ND	ND	ND	ND		

Notes:

<sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone<sup>3</sup> Based on New York State Department of Environmental Conservation 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

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

Date		8/4/13																									
Survey Type		V - Vessel Based																									
Construction Activity		DRR - Dredging				Comments																					
Tide		Flood																									
Source Location		Dredge No. 506																									
Sample Location		Upcurrent (Ambient)												Downcurrent													
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>													
Sample ID		080413-506-F-U												080413-506-F-D													
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit		(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>		Ambient + 100	0.05	-	-	-	-	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 <sup>3, 5</sup>		*	0.0007	8.2	5.6	8	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8	66	-	-	-	-	16	0.0006		
Analytical Result <sup>4</sup>		S	ND	ND	ND	4.1	ND	ND	ND	ND	ND	ND	ND	26.0	ND	ND	4.5	ND	ND	ND	ND	ND	ND	ND	ND		
		M	17.0	ND	ND	4.6	ND	ND	ND	ND	ND	ND	ND	ND	40.0	ND	ND	4.3	ND	ND	ND	ND	ND	ND	ND		
		B	20.0	ND	ND	4.1	ND	ND	ND	ND	ND	ND	ND	ND	59.0	ND	ND	4.5	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 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
- <sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

Date		8/5/13																							
Survey Type		V - Vessel Based																							
Construction Activity		DRR - Dredging				Comments																			
Tide		Flood																							
Source Location		Dredge No. 506																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
Sample ID		080513-506-F-U												080513-506-F-D											
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.05	-	-	-	-	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 <sup>3, 5</sup>		*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>		S	19.2	ND	ND	4.2	ND	16	ND	ND	ND	ND	ND	ND	21.2	ND	ND	4.2	ND	15	ND	ND	ND	ND	ND
		M	36.0	ND	ND	4.2	ND	15	ND	ND	ND	ND	ND	ND	60.0	ND	ND	4.2	ND	15	ND	ND	ND	ND	ND
		B	43.2	ND	ND	4.4	ND	14	ND	ND	ND	ND	ND	ND	123	ND	ND	4.0	ND	15	ND	ND	ND	ND	ND

Notes:

<sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone<sup>3</sup> Based on New York State Department of Environmental Conservation 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

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

Date		8/5/13																							
Survey Type		V - Vessel Based																							
Construction Activity		DRR - Dredging				Comments																			
Tide		Ebb																							
Source Location		Dredge No. 506																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
Sample ID		080513-506-E-U												080513-506-E-D											
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.05	-	-	-	-	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 <sup>3</sup>		*	0.0007	8.2	5.6	8	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8	66	-	-	-	-	16	0.0006
Analytical Result <sup>4</sup>	S	18.4	ND	ND	4.3	ND	21	ND	ND	ND	ND	ND	ND	89.0	ND	ND	4.4	ND	ND	ND	ND	ND	ND	ND	ND
	M	16.4	ND	ND	4.2	ND	15	ND	ND	ND	ND	ND	ND	70.0	ND	ND	4.1	ND	ND	ND	ND	ND	ND	ND	ND
	B	21.6	ND	ND	4.1	ND	15	ND	ND	ND	ND	ND	ND	104	ND	ND	4.1	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 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

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

Date		8/6/13																							
Survey Type		V - Vessel Based																							
Construction Activity		DRR - Dredging				Comments																			
Tide		Flood																							
Source Location		Dredge No. 551																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
Sample ID		080613-551-F-U												080613-551-F-D											
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.05	--	--	--	--	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 <sup>3, 5</sup>		*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>		S	20	ND	ND	6.5	ND	14	ND	ND	ND	ND	ND	24	ND	ND	6.2	ND	14	ND	ND	ND	ND	ND	ND
		M	21	ND	ND	5.6	ND	13	ND	ND	ND	ND	ND	24	ND	ND	6.5	ND	33	ND	ND	ND	ND	ND	ND
		B	36	ND	ND	4.9	ND	13	ND	ND	ND	ND	ND	33	ND	ND	6.2	ND	12	ND	ND	ND	ND	ND	ND

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

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

<sup>3</sup> Based on New York State Department of Environmental Conservation 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

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

<sup>5</sup> Upcurrent (ambient) concentration exceed the Water Quality Standard, Downcurrent concentration is less than 30% over background.

<sup>6</sup> Exceedances are less than 30% over upcurrent (background) concentration.

Date		8/6/13																									
Survey Type		V - Vessel Based																									
Construction Activity		DRR - Dredging				Comments																					
Tide		Ebb																									
Source Location		Dredge No. 506																									
Sample Location		Upcurrent (Ambient)												Downcurrent													
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>													
Sample ID		080613-506-E-U												080613-506-E-D													
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene			
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260					
Unit		(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>		Ambient + 100	0.05	--	--	--	--	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 <sup>3</sup>		*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>	S	25	ND	ND	6.1	ND	12	ND	ND	ND	ND	ND	ND	96	ND	ND	5.6	ND	12	ND	ND	ND	ND	ND	ND		
	M	33	ND	ND	6.1	ND	14	ND	ND	ND	ND	ND	ND	110	ND	ND	6.0	ND	14	ND	ND	ND	ND	ND	ND		
	B	65	ND	ND	5.8	ND	15	ND	ND	ND	ND	ND	ND	100	ND	ND	5.8	ND	13	ND	ND	ND	ND	ND	ND		

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

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

<sup>3</sup> Based on New York State Department of Environmental Conservation 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

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

<sup>5</sup> Upcurrent (ambient) concentration exceed the Water Quality Standard, Downcurrent concentration is less than 30% over background.

Date		8/7/13																									
Survey Type		V - Vessel Based																									
Construction Activity		DRR - Dredging				Comments																					
Tide		Flood																									
Source Location		Dredge No. 551																									
Sample Location		Upcurrent (Ambient)												Downcurrent													
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>													
Sample ID		080713-551-F-U												080713-551-F-D													
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit		(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>		Ambient + 100	0.05	--	--	--	--	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 <sup>3, 5</sup>		*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>	S	18.0	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	36.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	M	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	B	35.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	46.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

Notes:

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

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

<sup>3</sup> Based on New York State Department of Environmental Conservation 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, see 8/6/13 modification to Condition 60 of New York State Department of Environmental Conservation Permit Facility ID 3-9903-00043/00012-14

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

Date		8/7/13																								
Survey Type		V - Vessel Based																								
Construction Activity		DRR - Dredging				Comments																				
Tide		Ebb																								
Source Location		Dredge No. 551																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		080713-551-E-U												080713-551-E-D												
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260			
Unit		(ppm)	(ppb)											(ppm)	(ppb)											
Detection Limit <sup>3</sup>		Ambient + 100	0.05	-	-	-	-	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 <sup>3</sup>		*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006	
Analytical Result <sup>4</sup>	S	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	M	38.0	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	ND	28.4	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND	
	B	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	

Notes:

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

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

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

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

Date		8/7/13																								
Survey Type		V - Vessel Based																								
Construction Activity		DRR - Dredging				Comments																				
Tide		Flood																								
Source Location		Dredge No. 506																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		080713-506-F-U												080713-506-F-D												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.05	-	-	-	-	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 <sup>3,5</sup>	*	0.0007	8.2	5.6	8	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8	66	-	-	-	-	16	0.0006		
Analytical Result <sup>4</sup>	S	39.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	59.0	ND	ND	3.1	ND	ND	ND	ND	ND	ND	ND	ND		
	M	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	B	38.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	71.0	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	

Notes:

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

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

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

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NS =Not Sampled due to water depth, see 8/6/13 modification to Condition 60 of New York State Department of Environmental Conservation Permit Facility ID 3-9903-00043/00012-14

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

Date		8/7/13																							
Survey Type		V - Vessel Based																							
Construction Activity		DRR - Dredging				Comments																			
Tide		Ebb																							
Source Location		Dredge No. 506																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
Sample ID		080713-506-E-U												080713-506-E-D											
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.05	-	-	-	-	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 <sup>3</sup>		*	0.0007	8.2	5.6	8	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8	66	-	-	-	-	16	0.0006
Analytical Result <sup>4</sup>	S	29.0	ND	ND	3.2	ND	14	ND	ND	ND	ND	ND	ND	30.4	ND	ND	3.3	ND	14	ND	ND	ND	ND	ND	ND
	M	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	B	28.0	ND	ND	7.9	ND	16	ND	ND	ND	ND	ND	ND	39.2	ND	ND	3.2	ND	17	ND	ND	ND	ND	ND	ND

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

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

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

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ND =Not Detected

NS =Not Sampled due to water depth, see 8/6/13 modification to Condition 60 of New York State Department of Environmental Conservation Permit Facility ID 3-9903-00043/00012-14

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

<sup>5</sup> Upcurrent (ambient) concentration exceeds the Water Quality Standard, downcurrent concentration is less than 30% over background.

Date		8/7/13																							
Survey Type		V - Vessel Based																							
Construction Activity		DRR - Dredging				Comments																			
Tide		Flood																							
Source Location		Decant Barges																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
Sample ID		080713-DEC-F-U												080713-DEC-F-D											
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.05	-	-	-	-	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 <sup>3</sup>		*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	44.0	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	34.0	ND	ND	3.4	ND	ND	ND	ND	ND	ND	ND	ND
	M	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	B	94.0	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	ND	72.0	ND	ND	3.3	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

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

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

<sup>3</sup> Based on New York State Department of Environmental Conservation 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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<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

Date		8/8/13																									
Survey Type		V - Vessel Based																									
Construction Activity		DRR - Dredging				Comments																					
Tide		Flood																									
Source Location		Dredge No. 506																									
Sample Location		Upcurrent (Ambient)												Downcurrent													
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>													
Sample ID		080813-D506-F-U												080813-D506-F-D													
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit		(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>		Ambient + 100	0.05	--	--	--	--	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 <sup>3</sup>		*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>		S	33	ND	ND	6.3	ND	ND	ND	ND	ND	ND	ND	47.0	ND	ND	5.7	ND	14	ND	ND	ND	ND	ND	ND		
		M	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
		B	38	ND	ND	6.5	ND	ND	ND	ND	ND	ND	ND	ND	54.0	ND	ND	6.2	ND	11	ND	ND	ND	ND	ND	ND	

Notes:

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

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

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

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

<sup>5</sup> Upcurrent (ambient) concentrations exceed the Water Quality Standard, Downcurrent concentration is less than 30% over background.

Date		8/8/13																								
Survey Type		V - Vessel Based																								
Construction Activity		DRR - Dredging				Comments																				
Tide		Ebb																								
Source Location		Dredge No. 551																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		080813-D551-E-U												080813-D551-E-D												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.05	--	--	--	--	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 <sup>3</sup>	*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>	S	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	M	25	ND	ND	5.1	ND	ND	ND	ND	ND	ND	ND	58	ND	ND	5.9	ND	ND	ND	ND	ND	ND	ND	ND		
	B	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		

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

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

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

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

<sup>5</sup> Exceedance is less than 30% over upcurrent (background) concentration.

Date		8/8/13																									
Survey Type		V - Vessel Based																									
Construction Activity		DRR - Dredging				Comments																					
Tide		Flood																									
Source Location		Dredge No. 551																									
Sample Location		Upcurrent (Ambient)												Downcurrent													
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>													
Sample ID		080813-D551-F-U												080813-D551-F-D													
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit		(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>		Ambient + 100	0.05	--	--	--	--	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 <sup>3, 5</sup>		*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>		S	20	ND	ND	5.2	ND	13	ND	ND	ND	ND	ND	31	ND	ND	4.5	ND	14	ND	ND	ND	ND	ND	ND		
		M	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS			
		B	38	ND	ND	5.5	ND	15	ND	ND	ND	ND	ND	ND	28	ND	ND	5.2	ND	17	ND	ND	ND	ND	ND	ND	

Notes:

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

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

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

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ND =Not Detected

NS =Not Sampled due to water depth, see 8/6/13 modification to Condition 60 of New York State Department of Environmental Conservation Permit Facility ID 3-9903-00043/00012-14

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

Date		8/9/13																									
Survey Type		V - Vessel Based																									
Construction Activity		DRR - Dredging				Comments																					
Tide		Ebb																									
Source Location		Dredge No. 506																									
Sample Location		Upcurrent (Ambient)												Downcurrent													
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>													
Sample ID		080913-D506-E-U												080913-D506-E-D													
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit		(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>		Ambient + 100	0.05	--	--	--	--	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 <sup>3</sup>		*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>	S	30	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	ND	39	ND	ND	3.0	ND	ND	ND	ND	ND	ND	ND	ND		
	M	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS			
	B	34	ND	ND	ND	ND	18	ND	ND	ND	ND	ND	ND	45	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

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

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

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

-- No detection limit or water quality standard

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ND =Not Detected

NS =Not Sampled due to water depth, see 8/6/13 modification to Condition 60 of New York State Department of Environmental Conservation Permit Facility ID 3-9903-00043/00012-14

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

Date		8/9/13																									
Survey Type		V - Vessel Based																									
Construction Activity		DRR - Dredging				Comments																					
Tide		Flood																									
Source Location		Dredge No. 506																									
Sample Location		Upcurrent (Ambient)												Downcurrent													
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>													
Sample ID		080913-D506-F-U												080913-D506-F-D													
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit		(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>		Ambient + 100	0.05	--	--	--	--	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 <sup>3, 5</sup>		*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>		S	35	ND	ND	3.4	ND	17	ND	ND	ND	ND	ND	30	ND	ND	3.5	ND	18	ND	ND	ND	ND	ND	ND		
		M	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
		B	42	ND	ND	3.4	ND	18	ND	ND	ND	ND	ND	ND	71	ND	ND	3.8	ND	17	ND	ND	ND	ND	ND	ND	

Notes:

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

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

Date		8/9/13																							
Survey Type		V - Vessel Based																							
Construction Activity		DRR - Dredging				Comments																			
Tide		Ebb																							
Source Location		Dredge No. 551																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
Sample ID		080913-D551-E-U												080913-D551-E-D											
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.05	--	--	--	--	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 <sup>3, 5</sup>		*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	M	26.0	ND	ND	ND	ND	78	ND	ND	ND	ND	ND	ND	45.0	ND	ND	ND	ND	18	ND	ND	ND	ND	ND	ND
	B	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	

Notes:

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

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

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<sup>5</sup> Upcurrent (ambient) concentration exceeds the Water Quality Standard, downcurrent concentration is less than 30% over background.

Date		8/10/13																								
Survey Type		V - Vessel Based																								
Construction Activity		DRR - Dredging				Comments																				
Tide		Flood																								
Source Location		Dredge No. 551																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		081013-D551-F-U												081013-D551-F-D												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.05	--	--	--	--	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 <sup>3, 5</sup>	*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>	S	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	M	24	ND	ND	4.7	ND	7.6	ND	ND	ND	ND	ND	ND	43	ND	ND	3.9	ND	8.6	ND	ND	ND	ND	ND	ND	
	B	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	

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

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

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

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

Date		8/10/13																							
Survey Type		V - Vessel Based																							
Construction Activity		DRR - Dredging				Comments																			
Tide		Ebb																							
Source Location		Dredge No. 551																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
Sample ID		081013-D551-E-U												081013-D551-E-D											
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.05	--	--	--	--	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 <sup>3, 5</sup>		*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>		S	22	ND	ND	4.1	ND	9.3	ND	ND	ND	ND	ND	32	ND	ND	3.4	ND	ND	ND	ND	ND	ND	ND	ND
		M	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		B	23	ND	ND	3.8	ND	7.9	ND	ND	ND	ND	ND	ND	41	ND	ND	3.8	ND	ND	ND	ND	ND	ND	ND

## Notes:

<sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone<sup>3</sup> Based on New York State Department of Environmental Conservation Permit Facility ID 3-9903-00043/00012-14

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Date		8/10/13																							
Survey Type		V - Vessel Based																							
Construction Activity		DRR - Dredging				Comments																			
Tide		Flood																							
Source Location		Dredge No. 506																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
Sample ID		081013-D506-F-U												081013-D506-F-D											
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.05	-	-	-	-	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 <sup>3, 5</sup>		*	0.0007	8.2	5.6	8	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8	66	-	-	-	-	16	0.0006
Analytical Result <sup>4</sup>	S	17	ND	ND	4.9	ND	13	ND	ND	ND	ND	ND	ND	80	ND	ND	3.8	ND	13	ND	ND	ND	ND	ND	ND
	M	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	B	22	ND	ND	5.4	ND	18	ND	ND	ND	ND	ND	ND	74	ND	ND	3.8	ND	16	ND	ND	ND	ND	ND	ND

Notes:

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

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Date		8/10/13																							
Survey Type		V - Vessel Based																							
Construction Activity		DRR - Dredging				Comments																			
Tide		Ebb																							
Source Location		Dredge No. 506																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
Sample ID		081013-D506-E-U												081013-D506-E-D											
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.05	-	-	-	-	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 <sup>3, 5</sup>		*	0.0007	8.2	5.6	8	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8	66	-	-	-	-	16	0.0006
Analytical Result <sup>4</sup>		S	34	ND	ND	3.3	ND	12	ND	ND	ND	ND	ND	46	ND	ND	4.3	ND	ND	ND	ND	ND	ND	ND	ND
		M	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		B	40	ND	ND	4.3	ND	19	ND	ND	ND	ND	ND	ND	54	ND	ND	4.0	ND	ND	ND	ND	ND	ND	ND

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

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Date		8/11/13																							
Survey Type		V - Vessel Based																							
Construction Activity		DRR - Dredging				Comments																			
Tide		Flood																							
Source Location		Decant Operations																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
Sample ID		081113-D211-F-U												081113-D211-F-D											
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.05	--	--	--	--	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 <sup>3,5</sup>		*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>		S	26	ND	ND	3.4	ND	ND	ND	ND	ND	ND	ND	28	ND	ND	3.7	ND	11	ND	ND	ND	ND	ND	ND
		M	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		B	22	ND	ND	3.3	ND	ND	ND	ND	ND	ND	ND	ND	32	ND	ND	3.4	ND	11	ND	ND	ND	ND	ND

## Notes:

<sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone<sup>3</sup> Based on New York State Department of Environmental Conservation Permit Facility ID 3-9903-00043/00012-14

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Date		8/11/13																								
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 <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		081113-D211-E-U												081113-D211-E-D												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.05	--	--	--	--	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 <sup>3, 5</sup>	*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>	S	30	ND	ND	3.6	ND	11	ND	ND	ND	ND	ND	32	ND	ND	3.8	ND	12	ND	ND	ND	ND	ND	ND		
	M	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	B	30	ND	ND	3.6	ND	12	ND	ND	ND	ND	ND	31	ND	ND	3.9	ND	13	ND	ND	ND	ND	ND	ND		

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

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Date		8/11/13																								
Survey Type		V - Vessel Based																								
Construction Activity		DRR - Dredging				Comments																				
Tide		Flood																								
Source Location		Dredge No. 551																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		081113-D551-F-U												081113-D551-F-D												
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260			
Unit		(ppm)	(ppb)											(ppm)	(ppb)											
Detection Limit <sup>3</sup>		Ambient + 100	0.05	-	-	-	-	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 <sup>3,5</sup>		*	0.0007	8.2	5.6	8	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8	66	-	-	-	-	16	0.0006	
Analytical Result <sup>4</sup>		S	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
		M	22	ND	ND	3.5	ND	ND	ND	ND	ND	ND	ND	ND	31	ND	ND	3.3	ND	13	ND	ND	ND	ND	ND	ND
		B	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

## Notes:

<sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone<sup>3</sup> Based on New York State Department of Environmental Conservation Permit Facility ID 3-9903-00043/00012-14

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Date		8/11/13																									
Survey Type		V - Vessel Based																									
Construction Activity		DRR - Dredging				Comments																					
Tide		Ebb																									
Source Location		Dredge No. 551																									
Sample Location		Upcurrent (Ambient)												Downcurrent													
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>													
Sample ID		081113-D551-E-U												081113-D551-E-D													
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit		(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>		Ambient + 100	0.05	--	--	--	--	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 <sup>3,5</sup>		*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>		S	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS			
		M	40	ND	ND	3.3	ND	15	ND	ND	ND	ND	ND	ND	49	ND	ND	3.6	ND	12	ND	ND	ND	ND	ND		
		B	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		

Notes:

<sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible<sup>2</sup> Samples collected at the edge of the 500 ft mixing zone<sup>3</sup> Based on New York State Department of Environmental Conservation Permit Facility ID 3-9903-00043/00012-14

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

Date		8/11/13																							
Survey Type		V - Vessel Based																							
Construction Activity		DRR - Dredging				Comments																			
Tide		Flood																							
Source Location		Dredge No. 506																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
Sample ID		081113-D506-F-U												081113-D506-F-D											
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.05	--	--	--	--	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 <sup>3, 5</sup>		*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	22	ND	ND	3.6	ND	ND	ND	ND	ND	ND	ND	ND	51	ND	ND	3.3	ND	ND	ND	ND	ND	ND	ND	
	M	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	B	28	ND	ND	3.4	ND	ND	ND	ND	ND	ND	ND	ND	93	ND	ND	3.5	ND	ND	ND	ND	ND	ND	ND	

Notes:

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Date		8/11/13																							
Survey Type		V - Vessel Based																							
Construction Activity		DRR - Dredging				Comments																			
Tide		Ebb																							
Source Location		Dredge No. 506																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
Sample ID		081113-D506-E-U												081113-D506-E-D											
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.05	--	--	--	--	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 <sup>3, 5</sup>		*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>		S	28	ND	ND	3.5	ND	11	ND	ND	ND	ND	ND	35	ND	ND	3.9	ND	14	ND	ND	ND	ND	ND	ND
		M	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		B	26	ND	ND	3.5	ND	10	ND	ND	ND	ND	ND	ND	39	ND	ND	3.5	ND	14	ND	ND	ND	ND	ND

Notes:

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

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

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Date		8/12/13																								
Survey Type		V - Vessel Based																								
Construction Activity		DRR - Dredging				Comments																				
Tide		Flood																								
Source Location		Decant Operations																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		081213-D211-F-U												081213-D211-F-D												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.05	--	--	--	--	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 <sup>3, 5</sup>	*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>	S	16	ND	ND	4.2	ND	23	ND	ND	ND	ND	ND	12	ND	ND	4.4	ND	14	ND	ND	ND	ND	ND	ND		
	M	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	B	21	ND	ND	3.7	ND	18	ND	ND	ND	ND	ND	ND	21	ND	ND	4	ND	14	ND	ND	ND	ND	ND	ND	

Notes:

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

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

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Date		8/12/13																									
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 <sup>1</sup>												500 ft <sup>2</sup>													
Sample ID		081213-D211-E-U												081213-D211-E-D													
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit		(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>		Ambient + 100	0.05	--	--	--	--	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 <sup>3, 5</sup>		*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>		S	29	ND	ND	3.9	ND	12	ND	ND	ND	ND	ND	37	ND	ND	4.1	ND	11	ND	ND	ND	ND	ND	ND		
		M	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
		B	48	ND	ND	4.1	ND	12	ND	ND	ND	ND	ND	ND	73	ND	ND	3.9	ND	12	ND	ND	ND	ND	ND	ND	

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Date		8/12/13																								
Survey Type		V - Vessel Based																								
Construction Activity		DRR - Dredging				Comments																				
Tide		Flood																								
Source Location		Dredge No. 551																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		081213-D551-F-U												081213-D551-F-D												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>		Ambient + 100	0.05	-	-	-	-	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 <sup>3, 5</sup>		*	0.0007	8.2	5.6	8	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8	66	-	-	-	-	16	0.0006	
Analytical Result <sup>4</sup>	S	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	M	19	ND	ND	3.3	ND	ND	ND	ND	ND	ND	ND	ND	38	ND	ND	3.8	ND	19	ND	ND	ND	ND	ND	ND	
	B	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		

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Date		8/12/13																							
Survey Type		V - Vessel Based																							
Construction Activity		DRR - Dredging				Comments																			
Tide		Ebb																							
Source Location		Dredge No. 551																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
Sample ID		081213-D551-E-U												081213-D551-E-D											
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.05	-	-	-	-	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 <sup>3, 5</sup>		*	0.0007	8.2	5.6	8	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8	66	-	-	-	-	16	0.0006
Analytical Result <sup>4</sup>	S	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	M	27	ND	ND	3.8	ND	11	ND	ND	ND	ND	ND	ND	79	ND	ND	3.3	ND	ND	ND	ND	ND	ND	ND	
	B	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	

Notes:

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Date		8/12/13																									
Survey Type		V - Vessel Based																									
Construction Activity		DRR - Dredging				Comments																					
Tide		Ebb																									
Source Location		Dredge No. 506																									
Sample Location		Upcurrent (Ambient)												Downcurrent													
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>													
Sample ID		081213-D506-E-U												081213-D506-E-D													
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit		(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>		Ambient + 100	0.05	--	--	--	--	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 <sup>3,5</sup>		*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>		S	35	ND	ND	3.9	ND	13	ND	ND	ND	ND	ND	79	ND	ND	3.7	ND	21	ND	ND	ND	ND	ND	ND		
		M	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
		B	34	ND	ND	3.9	ND	16	ND	ND	ND	ND	ND	ND	77	ND	ND	5.4	3	22	ND	ND	ND	ND	ND	ND	

## Notes:

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