	Surv	ey Date												11/02	2/2013										
	Surve	еу Туре							*					V - Ves	sel Based	ı									
C	onstruct	ion Activ	ity		ARM -	Armor	ing		Com	ments													tar		a)
		ide												E	bb									20)	
		Location												Armoring	Operation	ns									
Loca						Upcu	rrent (A	mbien	t) .										Downcur	rent					
	nce to urce					Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft	2				la.	
Samı	ple ID		(1)			110	213-A26	3-E-U					*				ii.	11	0213-A26	3-E-D					
Sampl	e Time		la .				13:12												13:23						
		ded							P	СВ		0	ne	led							P	СВ		4	e e
o domestical desired	٦٩١٩١	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Uı	nit	(ppm)		-			(	ppb)					-	(ppm)			-			(ppb)					-
Detection	on 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 Stand		*	0.0007	8.2	5.6	8.0	66	-			-	16	0.0006	*	0.0007	8.2	5.6	8.0	66					16	0.0006
esulf	s		-				NS												NS		725 30				
Analytical Result⁴	М	12.0	ND	ND	ND	ND	20	ND	ND	ND	ND	ND	ND	23.6	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND
Analy	В						<sup>n</sup> NS			48 14			_						NS	•		*			

- <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
- <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
- <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
- -- 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.
  - <sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

	Surv	ey Date												11/02	2/2013				2					Ą.	
	Surve	у Туре												V - Ves	sel Based										
С	onstruct	ion Activi	ity		ARM -	Armori	ng		Com	ments							170								
	Т	ide						e						FI	ood										
		Location												Armoring	Operation	ns									
San Loca			2			Upcu	rrent (A	mbien	t)							ž.			Downcur	rent					
Distai Sou						Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft <sup>2</sup>	2					
Samı	ole ID					110	213-A26	3-F-U						2				11	0213-A26	3-F-D					
Sampl	e Time						10:25		31										10:45				ie .		
10		Suspended Solids	rı.	<u> </u>	er	-		242		254 B	260	alene	oyrene	spuded 1s	<b>L</b> ir	<u> </u>	er	-		242	248 PG		260	alene	oyrene
o constant	ב	Total Susp Solic	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Uı	nit	(ppm)					(	ppb)						(ppm)		-				(ppb)					
Detection	on Limit <sup>3</sup>	Ambient + 100	0.05					0.2	0.2	0.2	0.2		0.1	Ambient + 100	0.05		1	1		0.2	0.2	0.2	0.2		0.1
Water Stand		*	0.0007	8.2	5.6	8.0	66	-		-		16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-		1	16	0.0006
esult*	s	12.8	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND	30.8	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND -
Analytical Result⁴	М		NS											91				9	NS	la .					
Anal	В	16.8	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	ND	65.2	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND

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

	Surv	ey Date												11/0	5/2013										
	Surve	у Туре												V - Ves	sel Based										
С	onstruct	ion Activi	ity		ARM -	Armori	ng		Com	ments			7.20	el			50								
		ide											y W	E	bb						183				
		Location												Armoring	Operation	ıs									
Loca	nple ation					Upcu	rrent (A	mbien	t)										Downcur	rent					
Distai Sou	nce to irce					Appro	x. 500 -	1000 f	t <sup>1</sup>				0						500 ft	2					
Samp	ole ID	11				110	513-A26	3-E-U		11				u V				11	0513-A26	3-E-D					
Sampl	e Time				-		14:37						9.0						14:25						
		per							P	СВ			ue u	ped							P	СВ			e e
Darameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Ur	nit	(ppm)					(	ppb)					-	(ppm)					-	(ppb)					-
Detectio	on 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 o		*	0.0007	8.2	5.6	8.0	66	-	-		-	16	0.0006		0.0007	8.2	5.6	8.0	66	a				16	0.0006
esult4	S					0	NS	n											NS		•				•
Analytical Result <sup>4</sup>	М	6.00	ND	ND	8.9	3.9	29	ND	ND	ND	ND	ND	ND	14.4	ND	ND	6.0	ND	31	ND	ND	ŅD	ND	ND	ND
Anal	В						NS					EX.							NS						

- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
- <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
- <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
- -- No detection limit or water quality standard
- \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
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- NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.
  - <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.

	Surv	ey Date												11/06	6/2013										
	Surve	у Туре												V - Ves	sel Based										
C		ion Activi	ity		ARM -	Armori	ing		Com	ments										- 1		×			
		ide												Е	bb										
	5	Location												Armoring	Operation	ıs									
San Loca	nple ation					Upcu	rrent (A	mbien	t)	0									Downcur	rent					3
Distai Sou	The second second					Appro	ox. 500 -	1000 f	t <sup>1</sup>										500 ft	2					
Samı	ole ID					110	613-A26	3-E-U	-									11	0613-A26	3-E-D					
Sampl	e Time						14:24	114							-				14:37						
200000000000000000000000000000000000000		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Uı	nit	(ppm)			L		(	ppb)		l				(ppm)						(ppb)				l	
Detection	n Limit <sup>3</sup>	Ambient +	0.05					0.2	0.2	0.2	0.2		0.1	Ambient +	0.05			-		0.2	0.2	0.2	0.2		0.1
Water of Stand	- 1	*	0.0007	8.2	5.6	8.0	66					16	0.0006	11 mm 21 m <b>*</b> 1	0.0007	8.2	5.6	8.0	66					16	0.0006
ssulf*	s				4		NS						51		ä				NS		•		•		
Analytical Result⁴	М	18.8	ND	ND	3.3	3.1	21	ND	ND	ND	ND	ND	ND	17.6	ND	ND	8,8	ND	23	ND	ND	ND	ND	ND	ND
Anal	В						NS												NS						

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

	Surve	ey Date												11/06	5/2013										
	Surve	у Туре												V - Vess	sel Based										
С	onstruct	ion Activi	ty	,	ARM -	Armori	ng		Com	nents				*											
		ide							22						bod										
		Location												Armoring	Operation	IS									
Sam Loca						Upcu	rrent (Aı	mbient	:)									1	Downcur	rent					
Distar Sou	5000 10 10					Appro	x. 500 -	1000 ff	t <sup>1</sup>										500 ft <sup>2</sup>	!	70				
Samp	ole ID					110	613-A26	3-F-U										11	0613-A26	3-F-D					
Sample	e Time						12:25												12:09						
rotor		Solids	Mercury	Nickel	Copper	Lead	Zinc	1242		1254 W	1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	1242		1254 W	1260	Naphthalene	Benzo(a)pyrene
Deromotor	5	Total Sus Sol	Merc	Nic	Cop	Le	ΙΖ	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Napht	Benzo(a	Total Su Sol	Mer	Nic	Сор	Le	ΙΖ	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Napht	Benzo(a
Uı	nit	(ppm)					(	ppb)						(ppm)						(ppb)					
Detection	on 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 Stand		*	0.0007	8.2	5.6	8.0	66					16	0.0006	*	0.0007	8.2	5.6	8.0	66				1	16	0.0006
esult⁴	s	36.4	ND	ND	3.8	ND	20	ND	ND	ND	ND	ND	ND	21.6	ND	ND	5.5	ND	21	ND	ND	ND	ND	ND	ND
Analytical Result <sup>4</sup>	М	M NS																	NS						
Analy	В	58.8	ND	ND	4.4	ND	23	ND	ND	ND	ND	ND	ND	46.4	ND	ND	7.3	ND	25	ND	ND	ND	ND	ND	ND

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

	Surv	ey Date				(7)								11/07	7/2013										
	Surve	у Туре												V - Ves	sel Based				,						
С	onstruct	ion Activ	ity		ARM -	Armor	ing		Com	ments															
	Т	ide										8		E	bb	7/.									
		Location												Armoring	Operation	าร									
San Loca	ation					Upcu	rrent (A	mbien	t)						15				Downcur	rent					
	Distance to Source Approx. 500 - 1000 ft <sup>1</sup>												Tu-					(K	500 ft <sup>2</sup>	2					
Samı	ole ID	110713-A263-E-U										*				11	0713-A26	3-E-D							
Sampl	e Time			7		************	16:51												16:37						
		led							P	СВ		0	ne	paj						ï.	P	СВ			e e
o de la companya de l	מומנו	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Uı	nit	(ppm)		•			(	ppb)			•	0		(ppm)					(	(ppb)		-			l
Detectio	n Limit <sup>3</sup>	Ambient + 100	0.05				1	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 (		*	0.0007	8.2	5.6	8.0	66	1				16	0.0006	*	0.0007	8.2	5.6	8.0	66				-	16	0.0006
esult <sup>4</sup>	S	20.4	ND	ND	4.5	ND	23	ND	ND	ND	ND	ND	ND	44.4	ND	ND	4.9	ND	20	ND	ND	ND	ND	ND	ND
Analytical Result⁴	м		, NS																NS			5			
Anal	В	30.8	ND	ND	4.0	ND	21	ND	ND	ND	ND	ND	ND	43.2	ND	ND	6,0	ND-	22	ND	ND	ND	ND	ND	ND .

- 1 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>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

	Surve	ey Date												11/07/2	013										
	Surve	у Туре										(8) (8	١	/ - Vessel I	Based								15		
С	onstruct	ion Activi	ty	PD	C - Pil	e Drivii	ng - Zone C		Com	nents															
	T	ide					7	la la						Ebb											
		Location												Pier 3	2								2		
Sam Loca						Up	ocurrent (Amb	ient)										!	Downcur	rent					
Distar Sou						Ap	prox. 500 - 100	00 ft <sup>1</sup>				.01							500 ft <sup>2</sup>	!					
Samp	ole ID						110713-P032-E	-U										11	0713-P03	2-E-D					
Sample	e Time						16:11												16:28						
		ded							PO	СВ		Φ	au e	ded							Γ	СВ	Ι	Φ	aue
Parameter	2	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Ur	nit	(ppm)					(pp	b)						(ppm)					(	ppb)					
Detection	on Limit <sup>3</sup>	Ambient + 100	0.05					0.2	0.2	0.2	0.2		0.1	Ambient + 100	0.05		1	-	-	0.2	0.2	0.2	0.2		0.1
Water of Stand		*	0.0007	8.2	5.6	8.0	66	-				16	0.0006	*	0.0007	8.2	5.6	8.0	66					16	0.0006
ssult <sup>4</sup>	s	8.00	ND	ND	3.5	ND	19	ND	ND	ND	ND	ND	ND	8.40	ND .	ND	8.0	3.4	21	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М	7.60	ND	ND	3.6	ND	23	ND	ND	ND	ND	ND	ND	8.80	ND	ND	ND	ND	22	ND	ND	ND	ND	ND	ND
Analy	В	7.20	ND	ND	4.4	ND	22	ND	ND	ND	ND	ND	ND	14.4	ND	ND	ND	ND	21	ND	ND	ND	ND	ND	ND

- 1 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

	Surv	ey Date												11/07/2	013										
	Surve	у Туре												V - Vessel	Based										
. (	Construct	ion Activ	ity	PI	DC - Pi	le Drivi	ng - Zone C		Com	ments															
	Т	ide												Flood	d										
		Location												Pier 3	2								9.		
11	mple ation					Ul	ocurrent (Amb	ient)											Downcur	rent					
	nce to urce					Ap	prox. 500 - 100	00 ft <sup>1</sup>											500 ft	2				IN.	
Sam	ple ID		*			5	110713-P032-F	U									11	11	0713-P03	32-F-D					
Samp	le Time						15:06						1						14:46						
		pel							P	СВ			e	pe							P	СВ		_	e e
	Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
U	nit	(ppm)				•	(pp	b)				-		(ppm)						(ppb)					-
Detection	on 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
11	Quality dard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66					16	0.0006	*	0.0007	8.2	5.6	8.0	66					16	0.0006
esult <sup>4</sup>	s	5.60	ND	ND	4.7	ND	23	ND	ND	ND	ND	ND	ND	10.8	ND	ND	8.9	ND	22	ND	ND	ND	ND	ND	ND
Analytical Result <sup>4</sup>	М	12.4	ND	ND .	6.3	ND	26	ND	ND	ND	ND	NĎ	ND	13.6	ND	ND	12	ND	20	ND	ND	ND	ND	ND	, ND
Anal	В	18.8	. ND	ND	7.5	ND	27	ND	ND	ND	ND	ND	ND	25.6	ND	ND	9.6	ND	21	ND	ND	ND	ND	ND	ND

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- <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
- <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
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  - <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.

	Surv	ey Date												11/0	8/2013										
	Surve	у Туре												V - Ves	sel Based	ı									
C	onstruct	ion Activ	ity		ARM -	Armor	ing		Com	ments															
		ide												F	lood										
		Location												Armoring	Operatio	ns									
Loca						Upcu	rrent (A	mbien	t)					14					Downcui	rrent					
Distai Sou						Appro	ox. 500 -	1000 f	t¹				to				2	,	500 ft	2					
Samı	ole ID			×.		110	813-A26	3-F-U							22			11	0813-A26	63-F-D	ē.				
Sampl	e Time						09:10		27.				u.	. 0					09:24	1					
		led							P	СВ			Je	pa							P	СВ		_	e e
ore or	נמומומומ	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Uı	nit	(ppm)		•	•		(	ppb)	-	-				(ppm)						(ppb)	<b>I</b>			3	
Detectio	on 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 o		*	0.0007	8.2	5.6	8.0	66			-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66					16	0.0006
esulť	s		ь				NS	ONK							181				NS		•			a	
Analytical Result⁴	М	21.6	ND	ND	5.2	ND	20	ND	ND	ND	ND	ND	ND	22.8	ND	ND	4.5	ND	18	ND	ND	ND	ND	ND	ND
Anal	В		48				NS					3							NS	•					

- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
- <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
- <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
- -- 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.
  - <sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

	Surve	ey Date												11/09	9/2013										
	Surve	у Туре												V - Vess	sel Based										
C	onstruct	ion Activi	ty	,	ARM -	Armori	ng		Com	nents															
	Т	ide												FI	ood										
		Location												Armoring	Operation	าร									
Sam Loca						Upcu	rrent (A	mbien	t)									ı	Downcur	rent					
Distar Sou						Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft <sup>2</sup>	2					
Samp	le ID					110	913-A26	3-F-U						91				11	0913-A26	3-F-D					
Sample	e Time						11:47									40			11:24						
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Ur	nit	(ppm)					(	ppb)						(ppm)						(ppb)					
Detectio	n Limit <sup>3</sup>	Ambient + 100	0.05				- <b>-</b> -	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 (	-	*	0.0007	8.2	5.6	8.0	66					16	0.0006	*	0.0007	8.2	5.6	8.0	66	-			1	16	0.0006
sulf⁴	s	70	•				NS		,						ы		080		NS						
Analytical Result⁴	М	27.6	ND	ND	3.3	ND	17	ND	ND	ND	ND	ND	ND	44.8	ND	ND	3.8	ND.	18	ND	ND	ND	ND	ND	ND
Analy	В		•	•		•	NS			2									NS						

- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
- <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
- <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
- -- No detection limit or water quality standard
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  - <sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

	Surve	ey Date	ii.				j.							11/12	2/2013										
	Surve	у Туре												V - Ves	sel Based				2						
С	onstruct	ion Activi	ity		ARM -	Armori	ing	(20)	Com	ments				41											
1	Т	ide												FI	ood				10						
	50.000000000000000000000000000000000000	Location				3								Armoring	Operation	ns			10						16
Sam Loca						Upcu	rrent (A	mbien	t)										Downcur	rent					
Distar Sou						Appro	x. 500 -	1000 f	t <sup>1</sup>			15							500 ft	2					
Samp	le ID					111	213-A26	3-F-U										11	1213-A26	63-F-D					0 0
Sample	Time						15:12								-			il il	15:01						
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Г —	r 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Pag		Total S	Me	Z	ပိ	٦	N	Aroclo	Aroclo	Aroclo	Aroclo	Naph	Benzo	Total S	Me	Z	ပိ	_	~	Aroclo	Aroclor 1248	Aroclor 1254	Aroclo	Naph	Benzo
Ur	it	(ppm)					(	ppb)						(ppm)						(ppb)					
Detectio	n Limit³	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	<b></b>	0.1
Water (		*	0.0007	8.2	5.6	8.0	66					16	0.0006	*	0.0007	8.2	5.6	8.0	66	<b></b>				16	0.0006
sulf	s						NS		2	125		# T							NS						Si .
Analytical Result <sup>4</sup>	М	30.8	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	ND	49.2	ND	ND	ND	ND	19	ND	ND	ND	ND	ND	ND
Anal	В						NS		11					=					NS		0				

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

	Surve	ey Date												11/12	/2013										
	Surve	у Туре												V - Vess	el Based										
С	onstruct	ion Activi	ity	PDC	- Pile [	Oriving -	Zone C		Comi	ments													*		
	Т	ide												Ek											7
		Location												Pier	r 31										
San Loca						Upcı	ırrent (An	nbient	)									1	Downcur	rent		ē			
Distar Sou				2		Appro	ox. 500 - 1	1000 ft	1					602					500 ft <sup>2</sup>						
Samp	ole ID		10			111	213-P031	I-E-U								•		11	1213-P03	1-E-D					
Sampl	e Time						11:38						81						11:09		·				
Darameter	200	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Uı	nit	(ppm)					(1	opb)						(ppm)					(	ppb)					
Detection	on 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 Stand		*	0.0007	8.2	5.6	8.0	66	1				16	0.0006	*:	0.0007	8.2	5.6	8.0	66				-	16	0.0006
sault	s	13.2	ND	ND	3.4	ND	15	ND	ND	ND	ND	ND	ND	11.6	ND	ND	3.1	ND	17	ND	ND	ND	ND	ND	ND
ytical Re	S   13.2   ND				4.4	ND	16	ND	ND	ND	ND	ND	ND	32.4	ND	ND	3.1	ND	19	ND	ND	ND	ND	ND	ND
Analy	В	69.6	ND	ND	3.1	ND	17	ND	ND	ND	ND	ND	ND	32.8	ND	ND	4.0	ND	18	ND	ND	ND	ND	ND	ND:

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

	Surv	ey Date												11/13	3/2013										
	Surve	у Туре												V - Ves	sel Based										
С	onstruct	ion Activi	ty		ARM -	Armori	ing		Com	ments															
		ide												E	bb										
		Location												Armoring	Operation	ıs									
San Loca						Upcu	rrent (A	mbient	t)										Downcur	rent					
Distaι Soι						Appro	ox. 500 -	1000 f	t <sup>1</sup>	22									500 ft	2					
Samp	ole ID		•			111	313-A26	3-E-U							0			11	1313-A26	3-E-D					
Sampl	e Time						12:26								_				11:52						
Tinu		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Uı	nit	(ppm)						ppb)		,				(ppm)						(ppb)					
Detection	n Limit <sup>3</sup>	Ambient + 100	0.05				* <u>-</u>	0.2	0.2	0.2	0.2		0.1	Ambient + 100	0.05					0.2	0.2	0.2	0.2		0.1
11	Water Quality Standard <sup>3</sup>		0.0007	8.2	5.6	8.0	66	-	-			16	0.0006	**	0.0007	8.2	5.6	8.0	66					16	0.0006
ssulf	s				5		NS	*											NS						27
Analytical Result <sup>4</sup>	М	67.2	ND	ND	4.0	ND	22	ND	ND	ND	ND	ND	ND	94.4	ND	ND	3.8	ND	22	ND	ND	ND	ND	ND	ND
Analy	A Pagy																	NS							

- <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
- <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
- <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
- -- No detection limit or water quality standard
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  - <sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

	Surve	ey Date													3/2013							4			
	Surve	у Туре												V - Vess	sel Based										
Co		ion Activit	ty	,	ARM -	Armori	ng		Comr	ments															
	Т	ide								6					ood										
		Location												Armoring	Operation	IS									
Sam Loca						Upcu	rrent (Aı	mbient	t)			9							Downcur	rent					
Distan Sou						Appro	x. 500 -	1000 f	t <sup>1</sup>						. *				500 ft <sup>2</sup>	!					
Samp	le ID					111	313-A26	3-F-U										11	1313-A26	3-F-D	5				
Sample	Time		3				15:45											٠	15:55						
Parameter	Parameter		Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Un	iit	(ppm)					(	ppb)						(ppm)						(ppb)					
Detection	n Limit <sup>3</sup>	Ambient + 100	0.05	. <del></del>				0.2	0.2	0.2	0.2	. !	0.1	Ambient + 100	0.05		-	-	1	0.2	0.2	0.2	0.2		0.1
100000000000000000000000000000000000000	Water Quality Standard <sup>3</sup>		0.0007	8.2	5.6	8.0	66	-			ı	16	0.0006	*	0.0007	8.2	5.6	8.0	66					16	0.0006
sulf*	s		8				NS												NS					5)	
Analytical Result⁴	М	28.8	ND	ND	ND	ND	24	ND	ND.	ND	ND	ND	ND	26.4	ND	ND	ND	ND	21	ND	ND	ND	ND	ND	ND
Analy	Alaal NS											te.					NS								

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- <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
- <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
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12	Survey Date Survey Type Construction Activity				0,									11/13/	2013										1
	Surve	у Туре					3							V - Vesse	el Based									V	
С	onstruct	ion Activi	ity	PDC	- Pile	Driving	- Zone C		Com	ments															
	Т	ide												Eb	b										
	Source	Location												Pier	31										
Sam Loca						Upc	urrent (Am	bient)										.1	Downcur	rent					8
Distar Sou				<b>9</b>		Аррі	rox. 500 - 1	000 ft <sup>1</sup>											500 ft <sup>2</sup>	2					
Samp	ole ID					11	1313-P031	-E-U					*					11	1313-P03	31-E-D					
Sample	e Time						13:31												13:03		6				
Darameter	raiailletei	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Ur	nit	(ppm)					(p	pb)						(ppm)					(	(ppb)					
Detectio	on Limit <sup>3</sup>	Ambient + 100	0.05					0.2	0.2	0.2	0.2		0.1	Ambient + 100	0.05		1	-		0.2	0.2	0.2	0.2		0.1
Water (		*	0.0007	8.2	5.6	8.0	66					16	0.0006	*	0.0007	8.2	5.6	8.0	66					16	0.0006
esulf*	s	18.4	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	ND	21.2	ND	ND	3.3	ND	19	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М	33.6	ND	ND	3.8	3.5	19	ND	ND	ND	ND	ND	ND	26.4	ND	ND	3.4	ND	19	ND	ND	ND	ND	ND	ND
Analy	В	28.8	ND	ND	3.1	ND	21	ND	ND	ND	ND	ND	ND	25.6	ND	ND	3.2	ND	20	ND	ND	ND	ND	ND	ND

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- <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
- <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
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  - <sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

	Surve	ey Date												11/13	/2013										
	Surve	у Туре												V - Vess	el Based										
С	onstructi	ion Activi	ty	PDC	- Pile I	Oriving	- Zone C		Com	nents			0												
	Ti	ide												Flo											
		Location								*				Pier	· 31										
San Loca						Upc	urrent (Am	nbient)											Downcur	rent					
Distar Soເ						Appr	ox. 500 - 1	000 ft <sup>1</sup>	ı								30		500 ft <sup>2</sup>	2					
Samp	ole ID					11	1313-P031	-F-U										11	1313-P03	31-F-D					
Sampl	e Time			2			16:10					э.							16:28						
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Uı	nit	(ppm)					(r	pb)						(ppm)						(ppb)					
Detection	n Limit <sup>3</sup>	Ambient + 100	0.05			1	ı	0.2	0.2	0.2	0.2		0.1	Ambient + 100	0.05		-	-		0.2	0.2	0.2	0.2	1	0.1
Water Stand	,	*	0.0007	8.2	5.6	8.0	66					16	0.0006	*	0.0007	8.2	5.6	8.0	66	-				16	0.0006
ssul <sup>4</sup>	s	13.2	ND	ND	ND	ND	18	ND	ND	ND	ND.	ND	ND	14.4	ND	ND	3.1	ND	17	ND	ND	ND	ND	ND	ND
Analytical Result⁴	м	14.8	ND	ND	ND	ND	19	ND	ND	ND	ND	ND	ND	14.8	ND	ND	3.2	ND	20	ND	ND	ND	ND	ND	ND
Analy	Analyt		ND	ND	ND	ND	20	ND	ND	ND	ND	ND	ND	16.4	ND	ND	3.0	ND	20	ND	ND	ND	ND	ND	ND

- <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
- <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
- <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
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	Surve	ey Date												11/14	1/2013									1	
	Surve	у Туре					6							V - Vess	sel Based			22							
С	onstruct	ion Activi	ity		ARM -	Armori	ng		Com	nents					ii ii										
	Т	ide												E	bb										
	W. C.	Location												Armoring	Operation	ıs			0						
Sam Loca						Upcu	rrent (Aı	mbient	t)										Downcur	rent					9
Distar Sou						Appro	x. 500 -	1000 fi	t <sup>1</sup>										500 ft <sup>2</sup>	2					91
Samp	le ID					111	413-A26	3-E-U	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,									11	1413-A26	3-E-D					
Sample	e Time						11:46												10:25						
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Ur	nit	(ppm)					(	(ppb)						(ppm)					(	(ppb)					
Detectio	n Limit³	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	8.0	66	-		-		16	0.0006	*	0.0007	8.2	5.6	8.0	66				1	16	0.0006
esult	s	34.0	ND	ND ·	ND	ND	16	ND	ND	ND	ND	ND	ND	16.4	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М	-					NS												NS	8					
Anal	Analyti B		ND	ND	ND	ND	18	ND	ND	ND	ND	ND	ND	50.8	ND	ND	ND	ND	18	ND	ND	ND	ND	ND	ND

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

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

<sup>--</sup> No detection limit or water quality standard

<sup>\*</sup> 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.

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

	Surve	ey Date												11/14	4/2013										
	Surve	у Туре												V - Ves	sel Based										
C	onstruct	ion Activi	ty		ARM -	Armori	ng		Comi	nents															
	Т	ide												FI	ood										
		Location												Armoring	Operation	ıs									11
Sam Loca						Upcu	rrent (A	mbien	t)										Downcur	rent					
Distan Sou						Appro	эх. 500 -	1000 f	t <sup>1</sup>						*				500 ft <sup>2</sup>	2					
Samp	le ID					111	413-A26	3-F-U							0			11	1413-A26	3-F-D					
Sample	e Time						09:12												09:01						
Parameter	Parameter		Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Ur	nit	(ppm)					(	(ppb)						(ppm)						(ppb)	`				
Detectio	n Limit³	Ambient + 100	0.05			1	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05		. 1		1	0.2	0.2	0.2	0.2	1	0.1
	Water Quality Standard <sup>3</sup>		0.0007	8.2	5.6	8.0	66				-	16	0.0006	*	0.0007	8.2	5.6	8.0	66			1	1	16	0.0006
ssulf <sup>4</sup>	s	-					NS				G .								NS				8		- 3
Analytical Result⁴	М	14.4	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	ND	37.2	ND	ND	ND	ND	18	ND	ND	ND	ND	ND	ND
Analy	В						NS												NS		11				

- <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
- <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
- <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
- -- 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.
  - <sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom