	Surv	ey Date												06/02	2/2014										
	Surve	у Туре												V - Vess	sel Based										
С	onstruct	ion Activ	ity		ARM -	Armori	ng		Comr	nents															
	Т	ide												E	bb										
		Location												Armoring	Operation	าร									
Sam Loca	tion					Upcu	rrent (A	mbien	t)									I	Downcur	rent					
Distar Sou						Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft <sup>2</sup>	2					
Samp	ole ID		060214-A263-E-U 10:22															06	0214-A26	3-E-D					
Sample	e Time						10:22												10:07						
Daramoter		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 +	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 (	-	*	0.0007	8.2	5.6	8.0	66	-	-			16	0.0006	*	0.0007	8.2	5.6	8.0	66		1	1	ı	16	0.0006
esult <sup>4</sup>	s	29.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30.0	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND
Analytical Result <sup>4</sup>	М		NS																NS						
Anal	В	50.4	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	33.2	ND	ND	ND	ND	10	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

	Surv	ey Date												06/02	2/2014										
	Surve	у Туре												V - Vess	sel Based										
С	onstruct	ion Activi	ity	,	ARM -	Armori	ng		Com	nents															
	Т	ide												Fl	ood										
		Location												Armoring	Operation	าร									
Sam Loca	tion		Upcurrent (Ambient)															l	Downcur	rent					
Distar Sou		Approx. 500 - 1000 ft <sup>1</sup>																	500 ft <sup>2</sup>	2					
Samp	ole ID		060214-A263-F-U															06	0214-A26	3-F-D					
Sample	e Time		12:52																12:29						
		pəp								СВ		Ð	ane	pep							T	СВ		Ð	ane.
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	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 (	-	*	0.0007	8.2	5.6	8.0	66		-		-	16	0.0006	*	0.0007	8.2	5.6	8.0	66					16	0.0006
esult⁴	s	16.0	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	25.2	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М		NS NS																NS						
Anal	В	14.0	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	112	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND

ND = Not Detected

<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

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

	Surv	ey Date												06/02/	2014										
	Surve	у Туре												V - Vesse	l Based										
C	onstruct	ion Activ	ity	PDC	- Pile	Drivino	g - Zone C		Com	ments															
	Т	ide												Eb	b										
		Location												Pier	35										
Sam Loca						Upo	current (Am	bient)										I	Downcur	rent					
Distar Sou						Арр	rox. 500 - 1	000 ft <sup>1</sup>											500 ft <sup>2</sup>	2					
Samp	le ID					06	60214-P035	-E-U										06	0214-P03	5-E-D					
Sample	Time						09:40												09:23						
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	it	(ppm)					(p	pb)						(ppm)					(	ppb)					
Detectio	n 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 (		*	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	24.8	8 ND ND 3.0 ND 11 ND												ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М		NS																NS						
Anal	В	34.0	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	42.8	ND	ND	ND	ND	ND	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

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

	Surv	ey Date												06/02	/2014										
	Surve	у Туре												V - Vesse	el Based										
Co	onstruct	ion Activ	ity	PDC	- Pile	Driving	- Zone C		Com	ments															
	Т	ide												Flo	od										
		Location												Pier	35										
Sam Loca						Upc	urrent (An	nbient)	)									I	Downcur	rent					
Distan Sou						Appı	rox. 500 - 1	1000 ft <sup>1</sup>	I										500 ft <sup>2</sup>	2					
Samp	le ID					06	0214-P035	5-F-U										06	0214-P03	35-F-D					
Sample	Time						12:02												11:44						
		pep								СВ	I	Ð	ene.	pəp							PO	1		Ð	ene.
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
Un	it	(ppm)					(r	ppb)						(ppm)			·			(ppb)					
Detectio	n Limit <sup>3</sup>	Ambient + 100	0.05				-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05		-	ı	-	0.2	0.2	0.2	0.2	-	0.1
Water 0		*	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	12.4	ND	ND	3.1	ND	11	ND	ND	ND	ND	ND	ND	13.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М						NS												NS						
Anal	В	22.0	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND	23.6	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND

ND = Not Detected

<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

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

	Surv	ey Date												06/03	3/2014										
	Surve	у Туре												V - Vess	sel Based										
Co	onstruct	ion Activ	ity		ARM -	Armori	ng		Comr	nents															
	Т	ide													bb										
		Location												Armoring	Operation	าร									
Sam Loca	tion					Upcu	rrent (A	mbien	t)									l	Downcur	rent					
Distan Sou						Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft <sup>2</sup>	2					
Samp	le ID					060	314-A26	3-E-U										06	0314-A26	3-E-D					
Sample	Time						10:19												10:09						
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
Un	it	(ppm)					(	ppb)				•		(ppm)						(ppb)		•			
Detectio	n 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 (	-	*	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
sult4	s						NS												NS						
Analytical Result <sup>4</sup>	М	18.4	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND	60.8	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND
Analy	В		•	-	-	•	NS	•	•	-						•	•	•	NS	•	•		-		

<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

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

	Surv	ey Date												06/03	3/2014										
	Surve	у Туре												V - Vess	sel Based										
C	onstruct	ion Activi	ty	,	ARM -	Armori	ng		Com	nents															
	Т	ide												Flo	bod										
		Location												Armoring	Operation	าร									
Sam Loca	tion					Upcu	rrent (A	mbien	t)										Downcur	rent					
Distar Sou					Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft <sup>2</sup>	2						
Samp	le ID					060	314-A26	3-F-U										06	60314-A26	63-F-D					
Sample	e Time						11:32												11:16	i					
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)			<u> </u>		(	ppb)						(ppm)			<u> </u>	<u> </u>	L	(ppb)					ļ
Detectio	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 (		*	0.0007	8.2	5.6	8.0	66	ı	ı		1	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-		-		16	0.0006
sult4	s						NS												NS						
Analytical Result <sup>4</sup>	М	56.4	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	39.6	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND
Analy	В						NS												NS						

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<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

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

	Surve	ey Date												06/03	/2014										
	Surve	у Туре												V - Vesse	el Based										
С	onstructi	ion Activ	ity	PDC	- Pile	Driving	- Zone C		Com	ments															
		ide												Eb											
		Location												Pier	35										
San Loca	ition					Upc	urrent (Am	nbient	)									ļ	Downcur	rent					
Distar Sou						Appr	ox. 500 - 1	000 ft <sup>2</sup>	ı										500 ft <sup>2</sup>	2					
Samp	ole ID					06	0314-P035	i-E-U										06	0314-P03	85-E-D					
Sample	e Time						09:35												09:20						
Daramotor		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)			<u> </u>		(p	pb)	<u> </u>	1	1			(ppm)						(ppb)		1			1
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	-	1	ı		0.2	0.2	0.2	0.2	1	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
esult4	s	30.8	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND	26.0	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М			NS NS															NS						
Anal	В	39.2	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	66.4	ND	ND	3.1	ND	12	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

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

	Surve	y Date												06/04	/2014										
	Surve	у Туре												V - Vess	el Based										
C	onstructi	on Activit	ty	/	ARM -	Armori	ng		Comr	nents															
		ide													bb										
		Location												Armoring (	Operation	ns									
Sam Loca						Upcu	rrent (Aı	nbient	)									I	Downcur	rent					
Distan Sou						Appro	x. 500 -	1000 fi	.1										500 ft²						
Samp	ole ID					060	414-A26	3-E-U										06	0414-A26	3-E-D					
Sample	e Time						10:25												10:02						
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)	1.00				(	ppb)						(ppm)						ppb)					
Detectio	n Limit <sup>3</sup>	Ambient + 100	0.05	1	-	-		0.2	0.2	0.2	0.2	1	0.1	Ambient + 100	0.05	-	1	1	-	0.2	0.2	0.2	0.2	ı	0.1
Water (		*	0.0007	8.2	5.6	8.0	66	1	1		-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	_	_	-	-	16	0.0006
esulf <sup>4</sup>	s	16.4	ND	ND	3.1	ND	14	ND	ND	ND	ND	ND	ND	19.2	ND	ND	3.0	ND	11	ND	ND	ND	ND	ND	ND
Analytical Resulf	М						NS												NS						
Anal	В	20.4	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND	25.6	ND	ND	3.0	ND	12	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
- ND = Not Detected
- NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.
  - 4 S = Near Surface, M = Mid-Depth, B = Near Bottom

	Surve	y Date											·	06/04/	2014										
	Surve	у Туре												V - Vesse	el Based										
Co	nstructi	on Activi	ty	PDC	- Pile [	Oriving -	Zone C		Com	nents															
	Ti	de												Flo	od										
		Location												Pier	35										
Sam Loca						Upcu	ırrent (Am	bient)										1	Downcur	rent					
Distan Sou						Appro	ox. 500 - 1	000 ft <sup>1</sup>											500 ft	?					
Samp	le ID					060	)414-P035	i-F-U										06	0414-P03	85-F-D					
Sample	Time 15:18																	15:01							
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Arocior 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Arocior 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Un	it	(ppm)					(r	opb)	∢	<	∢		<u> </u>	(ppm)			L,		L	(ppb)	<	_	⋖		
Detection		Ambient +	0.05	_	-	-		0.2	0.2	0.2	0.2	_	0.1	Ambient + 7	0.05		_		_	0.2	0.2	0.2	0.2		0.1
Water 0		*	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	7.20 ND ND 3.3 ND 14 ND ND ND ND ND ND ND ND											ND	9.60	ND	ND	3.4	ND	11	ND	ND	ND	ND	ND	ND
Analytical Result	м						NS												NS						
Analy	В	195	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	20.0	ND	ND	ND	ND	10	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
- 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	y Date												06/05	/2014										
	Surve	у Туре												V - Vess	el Based										
Co	onstructi	on Activit	у	/	ARM -	Armoria	ng		Comr	nents															
		de													bb										
		Location												Armoring	Operation	s									
Sam Locat						Upcu	rrent (Aı	nbient	)										Downcur	rent					3
Distand Sour						Appro	x. 500 -	1000 ft	1										500 ft²	!					
Sampl	le ID					060	514-A26	3-E-U										06	0514-A26	3-E-D					
Sample	Time	10:05																	09:52						
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
Un	it	(ppm)					(	ppb)						(ppm)						(ppb)	<u> </u>				•
Detection	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 C 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
sulf	s		NS NS																NS						
Analytical Result	М	26.0	ND ND 3.0 ND 11 ND ND ND ND ND ND												ND	ND	3.4	ND	16	ND	ND	ND	ND	ND	ND
Analy	В						NS												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
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  - <sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

	Surve	y Date												06/05/	/2014										
	Surve	у Туре												V - Vesse	el Based						,				
Co	onstructi	on Activi	ty	PDC	- Pile [	Driving -	Zone C		Com	nents															
	Ti	ide												Flo	od										
		Location												Pier	35										
Sam Loca						Upcu	irrent (Am	nbient)	)									1	Downcur	rent					
Distan Sou	0.5 (0.00) (0.5) (0.5)					Appro	ox. 500 - 1	000 ft <sup>1</sup>	ı										500 ft <sup>2</sup>	2					
Samp	le ID					060	514-P035	i-F-U							7, 100			06	0514-P03	85-F-D					
Sample	Time		bbw) (bbp) R A A A A A B B B B B B B B B B B B B B													į.			13:31						
Parameter		otal Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	rocior 1242			rocior 1260	Naphthalene	enzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Arocior 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Un	nit						(r		⋖	<	⋖		_ m	(ppm)		L				(ppb)	<	⋖	⋖		
Detectio		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 (		*	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	10.4	ND	ND	3.0	ND	ND	10.4	ND	ND	3.1	ND	12	ND	ND	ND	ND	ND	ND						
Analytical Resulf	М						NS												NS						
Analy	В	215	ND	ND	3.4	ND	12	ND	ND	ND	ND	ND	ND	15.6	ND	ND	3.5	ND	12	ND	ND	ND	ND	ND	ND

- 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	y Date												06/06	/2014										
	Surve	у Туре												V - Vess	el Based										
Co		on Activit	у	,	ARM -	Armori	ng		Comr	nents												***			
		ide													bb										
		Location			100									Armoring	Operation	s									
Sam Local						Upcu	rrent (Ar	nbient	)									ļ	Downcur	rent					
Distan Sou						Appro	x. 500 -	1000 ft	1										500 ft²						
Samp	le ID					060	614-A26	3-E-U										06	0614-A26	3-E-D					
Sample	Time		*				09:03												08:51						
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Arocior 1242	Aroclor 1248	Arocior 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	it	(ppm)					(	ppb)						(ppm)						(ppb)					
Detection	n Limit <sup>3</sup>	Ambient + 100	0.05		-	-	-	0.2	0.2	0.2	0.2	-	0.1	Amblent + 100	0.05		-			0.2	0.2	0.2	0.2	•	0.1
Water 0		*	0.0007	8.2	5.6	8.0	66					16	0.0006	*	0.0007	8.2	5.6	8.0	66					16	0.0006
sulf	s	NS																	NS						
Analytical Resulf	М	30.0 ND ND ND ND 12 ND ND ND ND ND ND ND ND											ND	28.8	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND
Analy	В	· · · · · · · · · · · · · · · · · · ·		e e e e e e e e e e e e e e e e e e e	•		NS			•	•	•			-	•			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
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	Surve	y Date												06/06	/2014										
	Surve	у Туре												V - Vess	el Based										
Co	onstructi	on Activi	ly	,	ARM -	Armori	ng		Comr	nents															
		ide													bod										
		Location												Armoring	Operation	ns									
Sam Loca						Upcu	rrent (Aı	mbient	)									ı	Downcur	rent					
Distan Sou						Appro	x. 500 -	1000 fi	1										500 ft <sup>2</sup>	2					
Samp	le ID					060	614-A26	3-F-U										06	0614-A26	3-F-D					
Sample	Time						13:49												13:57						
Parameter		Total Suspended Solids	Mercury	Zinc	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	it	(ppm)			<b>.</b>		(	ppb)						(ppm)					(	(ppb)	•				
Detection	n 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 0		*	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	NS																NS							
Analytical Resulf <sup>4</sup>	М	25.2	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	14.0	ND	ND	3.0	ND	14	ND	ND	ND	ND	ND	ND
Analy	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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  - <sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

	Surve	ey Date												06/09/	/2014										
	Surve	у Туре												V - Vesse	el Based										
Construction Activity Tide					- Pile	Driving	- Zone C		Com	ments															
Tide Source Location Sample Location Distance to Source														Eb	bb										
Sample Location Distance to														Pier	33										
Sample Location						Upc	urrent (Am	nbient)	١										Downcur	rent					
						Appr	ox. 500 - 1	000 ft <sup>1</sup>	1										500 ft <sup>2</sup>	!					
Samp	ole ID					06	0914-P033	-E-U										06	0914-P03	3-E-D					
Sample	e Time						15:51												15:32						
Parameter	- a	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	n 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
S 10.4 ND					3.8	ND	12	ND	ND	ND	ND	ND	ND	8.00	ND	ND	3.4	ND	12	ND	ND	ND	ND	ND	ND
S   10.4   ND				ND	3.1	ND	12	ND	ND	ND	ND	ND	ND	8.80	ND	ND	3.4	ND	12	ND	ND	ND	ND	ND	ND
Anal	В	19.2	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	14.4	ND	ND	ND	ND	15	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

 $<sup>^{\</sup>rm 2}$  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												06/09	9/2014										
	Surve	у Туре												V - Vess	sel Based										
С	onstruct	ion Activit	ty		ARM -	Armori	ng		Com	ments															
		ide													bb										
		Location												Armoring	Operation	IS									
Sam Loca	nce to																Downcur	rent							
Distan Sou		Approx. 500 - 1000 ft <sup>1</sup>																500 ft <sup>2</sup>	2						
Samp	le ID	060914-A263-E-U																06	0914-A26	3-E-D					
Sample	Time						11:25												11:09						
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
Un	it	(ppm)					(	ppb)						(ppm)					(	(ppb)					
Detectio	n Limit <sup>3</sup>	Ambient + 100	0.05	ı		1	I	0.2	0.2	0.2	0.2		0.1	Ambient + 100	0.05	I	1			0.2	0.2	0.2	0.2	I	0.1
Water (	-	*	0.0007	8.2	5.6	8.0	66	ı	ı	-		16	0.0006	*	0.0007	8.2	5.6	8.0	66				ı	16	0.0006
esult⁴	s	NS NS																	NS						
Analytical Result⁴	М	61.6	1.6 ND ND 4.0 ND 13 ND ND ND ND ND ND ND ND												ND	ND	3.6	ND	12	ND	ND	ND	ND	ND	ND
Anal)	В						NS												NS						-

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

 $<sup>^{\</sup>rm 2}$  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

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

	Surve	ey Date												06/09	9/2014										
	Surve	у Туре												V - Ves	sel Based										
С	onstructi	ion Activi	ty		ARM -	Armori	ng		Com	ments															
	Т	ide												FI	ood										
		Location												Armoring	Operation	ıs									
Sam Loca	tion		Upcurrent (Ambient)  Approx. 500 - 1000 ft <sup>1</sup>																Downcur	rent					
Distar Sou			Approx. 500 - 1000 ft <sup>1</sup>																500 ft <sup>2</sup>	2					
Samp	ole ID					060	914-A26	3-F-U										06	60914-A26	63-F-D					
Sample	e Time						09:35												09:22	!					
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	n Limit <sup>3</sup>	Ambient + 100	0.05		ı	1	ı	0.2	0.2	0.2	0.2	ı	0.1	Ambient + 100	0.05	I	ı			0.2	0.2	0.2	0.2	1	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
ssul€	s						NS												NS						
Analytical Resul <sup>∉</sup>	М	25.6	ND	ND	3.4	ND	10	ND	ND	ND	ND	ND	ND	38.0	ND	ND	3.3	ND	12	ND	ND	ND	ND	ND	ND
Analy	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
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	Surve	ey Date												06/10	0/2014										
	Surve	у Туре												V - Ves	sel Based										
С	onstruct	ion Activi	ity	,	ARM -	Armori	ng		Com	ments															
		ide													ood										
		Location												Armoring	Operation	าร									
Sam Loca						Upcu	rrent (A	mbien	t)									!	Downcur	rent					
Distar Sou						Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft <sup>2</sup>	2					
Samp	ole ID					061	014-A26	3-F-U										06	1014-A26	3-F-D					
Sample	e Time						13:38												13:17						
		pəp							P	СВ	1	o o	ne	led							P	СВ	1	o)	ne
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	1	1	1	-	0.2	0.2	0.2	0.2		0.1	Ambient + 100	0.05		ı	ı	1	0.2	0.2	0.2	0.2	1	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
ssulf⁴	s	29.2	ND	ND	3.0	ND	11	ND	ND	ND	ND	ND	ND	108	ND	ND	3.1	ND	12	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М						NS												NS						
Analy	В	30.0	ND	ND	3.2	ND	12	ND	ND	ND	ND	ND	ND	102	ND	ND	3.2	ND	12	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
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  - <sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

	Surve	ey Date												06/11	1/2014										
	Surve	у Туре												V - Vess	sel Based										
Co	onstructi	ion Activi	ity		ARM -	Armori	ng		Comr	nents															
	Ti	ide												E	bb										
		Location												Armoring	Operation	าร									
Sam Loca	tion					Upcu	rrent (A	mbien	t)									I	Downcur	rent					
Distan Sou			Approx. 500 - 1000 ft <sup>1</sup>																500 ft <sup>2</sup>	?					
Samp	le ID		061114-A263-E-U															06	1114-A26	3-E-D					
Sample	Time		11:57																11:38						
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 B	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Un	it	(ppm)		<u> </u>		<u> </u>	(	ppb)						(ppm)						ppb)					
Detectio	n Limit <sup>3</sup>	Ambient +	0.05				-	0.2	0.2	0.2	0.2	-	0.1	Ambient +	0.05		-		1	0.2	0.2	0.2	0.2		0.1
Water 0		*	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	27.6	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	31.2	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М						NS												NS						
Anal)	В	35.6	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	26.8	ND	ND	ND	ND	12	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

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

	Surv	ey Date												06/11	1/2014										
	Surve	у Туре												V - Vess	sel Based										
Co	onstruct	ion Activ	ity	,	ARM -	Armori	ng		Comr	nents															
	Т	ide												Fl	ood										
		Location												Armoring	Operation	าร									
Sam Loca	tion					Upcu	rrent (A	mbien	t)									I	Downcur	rent					
Distan Sou						Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft <sup>2</sup>	2					
Samp	le ID					061	114-A26	3-F-U										06	1114-A26	3-F-D					
Sample	Time						09:05												08:47						
Ġ		nded						7	ı	CB	0	aue	rene	nded						7		CB	0	ine	rene
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
Un	it	(ppm)					(	ppb)						(ppm)			•			(ppb)					
Detectio	n Limit <sup>3</sup>	Ambient + 100	0.05	-			-	0.2	0.2	0.2	0.2		0.1	Ambient + 100	0.05		-	ı	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
esult4	s	25.2	ND	ND	3.1	ND	17	ND	ND	ND	ND	ND	ND	43.2	ND	ND	3.9	ND	11	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М						NS												NS						
Anal	В	39.6	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	74.8	ND	ND	4.0	ND	13	ND	ND	ND	ND	ND	ND

ND = Not Detected

<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

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												06/11	/2014										
	Surve	у Туре												V - Vess	el Based										
C	onstructi	on Activi	ity	PDC	- Pile [	Oriving	- Zone C		Com	nents															
	T	ide												Flo	od										
		Location												Pier	r 33										
Sam Loca		Upcurrent (Ambient)																Downcur	rent						
Distar Sou		Approx. 500 - 1000 ft <sup>1</sup>																500 ft <sup>2</sup>	2						
Samp	ole ID	061114-P033-F-U															06	1114-P03	3-F-D						
Sample	e Time						10:48												10:27						
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)					(p	pb)						(ppm)						(ppb)					•
Detectio	n Limit³	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	-	-	-		16	0.0006	*	0.0007	8.2	5.6	8.0	66	-				16	0.0006
ssult4	s	10.4	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	10.8	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М	30.8	30.8 ND ND ND ND 13 NE								ND	ND	ND	20.8	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND
Analy	В	51.6	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	24.8	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND

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>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

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

	Surv	ey Date												06/11/	/2014										
	Surve	у Туре												V - Vesse	el Based										
C	onstruct	ion Activ	ity	PDC	- Pile I	Oriving	- Zone C		Com	ments															
	Т	ide												Eb											
		Location												Pier	35										
Sam Loca						Upc	urrent (An	nbient	)									l	Downcur	rent					
Distar Sou				Approx. 500 - 1000 ft <sup>1</sup>															500 ft <sup>2</sup>	2					
Samp	ole ID					06	1114-P035	5-E-U										06	1114-P03	5-E-D					
Sample	e Time						14:02												13:49						
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)					(r	opb)						(ppm)		<u> </u>	·			ppb)				·	
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					16	0.0006	*	0.0007	8.2	5.6	8.0	66					16	0.0006
esult4	s	12.0	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	33.2	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М						NS												NS						
Anal	В	34.8	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	27.6	ND	ND	ND	ND	12	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

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ND = Not Detected

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

	Surv	ey Date												06/11	/2014										
	Surve	у Туре												V - Vess	el Based										
Co	onstruct	ion Activ	ity	PDC	- Pile [	Oriving	- Zone C		Com	nents															
	Т	ide												Flo	ood										
		Location												Pie	r 35										
Sam Loca						Upcı	urrent (An	nbient	)									l	Downcuri	rent					
Distan Sou						Appr	ox. 500 - 1	1000 ft	ı										500 ft <sup>2</sup>	2					
Samp	le ID					06	1114-P03	5-F-U										06	1114-P03	35-F-D					
Sample	Time						17:43												17:31						
Parameter		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
		Total	≥		0			,	Arocl	Arocl	Arocl	Nap	Benze	Total	≥	_	0			,	Arocl	Arocl	Arocl	Nap	Benz
Un	it	(ppm)					()	opb)		r				(ppm)			ı		(	(ppb)					
Detectio	n Limit <sup>3</sup>	Ambient + 100	0.05				I	0.2	0.2	0.2	0.2		0.1	Ambient + 100	0.05	1	I	ı	ı	0.2	0.2	0.2	0.2	ı	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
esult4	s	15.6	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	15.6	ND	ND	ND	ND	18	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М						NS												NS						
Analy	В	18.4	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	15.6	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND

ND = Not Detected

<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

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												06/12	2/2014										
	Surve	у Туре												V - Vess	sel Based										
Co	onstructi	ion Activi	ity		ARM -	Armori	ng		Com	nents															
	Ti	ide												E	bb										
		Location												Armoring	Operation	าร									
Sam Loca	tion					Upcu	rrent (A	mbien	t)									ı	Downcur	rent					
Distan Sou		Approx. 500 - 1000 ft <sup>1</sup>																500 ft <sup>2</sup>	?						
Samp	le ID		061214-A263-E-U															06	1214-A26	3-E-D					
Sample	Time		12:46																12:26						
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 B	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Un	it	(ppm)					(	ppb)						(ppm)					(	ppb)					
Detectio	n 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 (		*	0.0007	8.2	5.6	8.0	66	-	-		-	16	0.0006	*	0.0007	8.2	5.6	8.0	66				-	16	0.0006
esult⁴	s	22.8	ND	ND	3.1	ND	11	ND	ND	ND	ND	ND	ND	34.0	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М						NS												NS						
Anal)	В	36.4	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	43.6	ND	ND	ND	ND	10	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

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

	Surv	ey Date												06/12	2/2014										
	Surve	у Туре												V - Vess	sel Based										
Co	onstruct	on Activ	ity		ARM -	Armori	ng		Com	ments															
	Т	ide												Fl	ood										
		Location												Armoring	Operation	าร									
Sam Loca	tion					Upcu	rrent (A	mbien	t)									l	Downcur	rent					
Distan Sou		Approx. 500 - 1000 ft <sup>1</sup>																500 ft <sup>2</sup>	2						
Samp	le ID	061214-A263-F-U																06	1214-A26	3-F-D					
Sample	Time	_	09:31												_				09:13						
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
Un	it	(ppm)	(ppm) (ppb)													<u> </u>				(ppb)					
Detectio	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 0		*	0.0007	8.2	5.6	8.0	66	-			-	16	0.0006	*	0.0007	8.2	5.6	8.0	66					16	0.0006
esult4	s	42.0	ND	ND	3.1	ND	14	ND	ND	ND	ND	ND	ND	41.6	ND	ND	3.1	ND	12	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М		NS																NS						
Anal	В	57.2	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	39.2	ND	ND	3.5	ND	14	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

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

	Surve	y Date												06/13	/2014										
	Surve	у Туре												V - Vess	el Based										
Co		on Activi	ity	,	ARM -	Armori	ng		Comr	nents															
		ide												Fk	ood										
		Location												Armoring	Operation	18									
Sam Local						Upcu	rrent (A	mbien	t)									ı	Downcur	rent					
Distan Soul						Appro	x. 500 -	1000 fi	t¹										500 ft <sup>2</sup>	!					
Samp	le ID					061	314-A26	3-F-U										06	1314-A26	3-F-D					
Sample	Time						11:18							*****					11:00						
þ		nded	>		_			42		ZB	8	ene	rene	anded	>		L			42	P(		90	9116	rene
Parameter		Nickel Copper Lead Zinc Aroclor 1248 Aroclor 1254 Aroclor 1256 Aroclor 1260 Naphthalene											Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Arocior 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Un	it	(ppm)					(	ppb)						(ppm)	*		,			ppb)		344		New Y	
Detection	n 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 0		*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	٠	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006
sult.	s	54.8	54.8 ND ND ND ND 12 ND ND ND ND ND ND ND ND											49.6	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND
Analytical Result	M						NS												NS						
Analy	В	70.8	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	55.2	ND	NĐ	ND	ND	12	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
- 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	y Date												06/13/	/2014										
	Surve	у Туре												V - Vess	el Based										
Co	onstructi	on Activ	ty	PDC	- Pile [	Driving	- Zone C		Comr	nents															
	T	de												Flo	od										
		Location												Pier	35										
Sam Loca				13 N R.S.		Upcı	urrent (An	nbient)	)									1	Downcur	rent					
Distan Sou			Approx. 500 - 1000 ft <sup>1</sup>																500 ft	2					
Samp	le ID		061314-P035-F-U															06	1314-P03	5-F-D				•	
Sample	Time						08:30												08:18						
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Arocior 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Arocior 1242	Aroclor 1248	Arocior 1264	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Un	it	(ppm)			٠		(F	ppb)			<b>-</b>		<b>-</b>	(ppm)				•		(ppb)					
Detectio	n Limit <sup>3</sup>	Ambient +	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 (		•	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*	s	54.8	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	26.8	ND.	ND	ND	ND	12	ND	ND	ND	ND	ND	ND
Analytical Result	М						NS												NS						
Analy	В	16.8	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	64.4	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>&</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

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

	Surve	y Date												06/14	/2014								-		
	Surve	у Туре												V - Vess	el Based										
Co	nstructi	on Activi	ty	- 7	ARM -	Armori	ng		Com	nents															
	T	ide												E	bb						2000				
		Location												Armoring	Operation	18									
Sam Locat	tion					Upcu	rrent (A	mbient	t)									1	Downcur	rent					
Distan Soul	2000					Appro	x. 500 -	1000 fi	t <sup>1</sup>										500 ft	2					
Samp	le ID	y .				061	414-A26	3-E-U										06	1414-A26	3-E-D					
Sample	Time						07:09												06:59	)					
		pel							PC	СВ			92	per							P	СВ		65	ne ne
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Arocior 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Arocior 1242	Aroclor 1248	Arocior 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Un	it	(ppm)						ppb)			<b></b>			(ppm)						(ppb)					
Detection	n Limit <sup>3</sup>	Ambient + 100	0.05	-	-	-	ı	0.2	0.2	0.2	0.2	-	0.1	Amblent + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1
Water C		•	0.0007	8.2	5.6	8.0	66	1	1	_	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	_	-	_	_	16	0.0006
sult*	s		NS NS																NS	- 3770		- 45 s. s			
Analytical Result	М	41.6	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	68.4	NO	ND	ND	ND	12	ND	ND	ND	ND	ND	ND
Analy	В						NS												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>&</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	y Date												06/14	/2014		·								
	Surve	у Туре												V - Vess	el Based										
C	onstructi	on Activ	ity		ARM -	Armori	ng		Comr	nents															
	Ti	de													bod		-14								
		Location										-		Armoring	Operation	18									
Sam Loca	•				Upcu	rrent (A	mbient	t)									ļ	Downcur	rent						
Distan Sou					Appro	x. 500 -	1000 fi	t¹										500 ft <sup>2</sup>	2					, and the second	
Samp	le ID				061	414-A26	3-F-U							200			06	1414-A26	3-F-D						
Sample	Time					-	08:32								· · · · · · · · · · · · · · · · · · ·				08:20						
														ded					-	<u> </u>		В		•	e
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Arocior 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Arocior 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Ur	iit	(ppm)					(	ppb)					7	(ppm)						(ppb)					
Detectio	n Limit³	Ambient + 100	0.05	-		-	1 <b>-</b>	0.2	0.2	0.2	0.2	-	0.1	Amblent + 100	0.05	-	-	ı		0.2	0.2	0.2	0.2	-	0.1
Water (	and the second part of the	*	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
sult*	s	25.6 ND ND ND ND 11 ND ND ND ND ND ND ND ND											ND	20.4	NO	NĐ	ND	ND	12	ND	ND	ND	ND	ND	ND
Analytical Result⁴	M						NS												NS						
Analy	В	25.2	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	34.0	ND	ND	ND	ND	13	NĐ	ND	NO	ΝD	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>&</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

		y Date													/2014										
		у Туре					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							V - Vess	el Based										
Co		on Activi	ty	,	ARM -	Armori	ng		Comr	nents															
		ide													bb										
		Location												Armoring	Operation	is									
Sam Locat	tion					Upcu	rrent (A	mbient	t)									ı	Downcur	rent					
Distan Soul						Appro	x. 500 -	1000 fi	t <sup>1</sup>								-1		500 ft <sup>2</sup>	2					
Samp	le ID					061	614-A26	3-E-U										06	1614-A26	3-E-D					
Sample	Time						09:09												08:51						
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
Un	it	(ppm)					(	ppb)						(ppm)						(ppb)			<b>,</b>		
Detection	n Limit <sup>3</sup>	Ambient + 100	0.05	1		-		0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	1	1	I		0.2	0.2	0.2	0.2	_	0.1
Water C		*	0.0007	8.2	5.6	8.0	66	-	1	-	ı	16	0.0006	*	0.0007	8.2	5.6	8.0	66	_	-	-	_	16	0.0006
sult <sup>4</sup>	s NS															NS									
Analytical Result⁴	M	48.0	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	84.8	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND
Analy	В					•	NS					-			•				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>&</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	y Date												06/16	/2014								******		
	Surve	у Туре												V - Vess	el Based										
Co	onstructi	on Activi	ity	,	ARM -	Armori	ng		Comr	nents															
		de												Flo	ood										
		Location					~			- few-				Armoring	Operation	ıs									
Sam Loca						Upcu	rrent (Aı	nbien	t)									E	Downcuri	rent					
Distan Sou		Approx. 500 - 1000 ft <sup>1</sup>																500 ft <sup>2</sup>	!						
Samp	le ID		061614-A263-F-U															06	1614-A26	3-F-D					
Sample	Time						13:36												13:15						
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Arocior 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Arocior 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Un	it	(ppm)		<b>-</b>			(	ppb)						(ppm)						(ppb)					
Detectio	n Limit <sup>3</sup>	Ambient + 100	0.05	_		-	-	0.2	0.2	0.2	0.2	-	0.1	Amblent + 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	-		1	1	16	0.0006
ssult*	s	50.8	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	43.2	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND
Analytical Result <sup>4</sup>	М						NS												NS						
Analy	В	84.4	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	76.0	ND	ND	ND	ND	ND	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
- 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												06/17	7/2014										
	Surve	у Туре												V - Vess	sel Based										
Co	onstructi	ion Activi	on Activity ARM - Armoring Comments																						
	T	ide	*											Е	bb										
		Location												Armoring	Operation	าร									
Sam Loca	tion				Upcu	rrent (A	mbien	t)									I	Downcur	rent						
Distan Sou					Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft <sup>2</sup>	2						
Samp	le ID					061	714-A26	3-E-U										06	1714-A26	3-E-D					
Sample	Time	08:49																08:30							
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 B	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Un	it	(ppm)		<u> </u>	<u> </u>	<u> </u>	(	ppb)						(ppm)					<u> </u>	(ppb)					
Detectio	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 (		*	0.0007	8.2	5.6	8.0	66	-	-		-	16	0.0006	*	0.0007	8.2	5.6	8.0	66					16	0.0006
sult⁴	s	98.8	ND	ND	3.1	ND	12	ND	ND	ND	ND	ND	ND	191	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М						NS												NS						
Anal	В	74.4	ND	ND	3.0	ND	12	ND	ND	ND	ND	ND	ND	187	ND	ND	3.0	ND	11	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

	Surv	ey Date												06/17	7/2014										
	Surve	у Туре												V - Vess	sel Based										
Co	onstruct	ion Activ	ity		ARM -	Armori	ng		Comr	nents															
	Т	ide												Fl	ood										
		Location												Armoring	Operation	าร									
Sam Loca					Upcu	rrent (A	mbien	t)									I	Downcur	rent						
Distan Sou						Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft <sup>2</sup>	2					
Samp	le ID		061714-A263-F-U															06	1714-A26	3-F-D					
Sample	Time						12:52												12:36						
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
Un	it	(ppm)					(	ppb)	-	,	-			(ppm)		<u> </u>				(ppb)			-		
Detectio	n 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		*	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	30.8	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	32.4	ND	ND	3.3	ND	12	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М		NS																NS						
Analy	В	44.8	ND	ND	3.0	ND	12	ND	ND	ND	ND	ND	ND	38.4	ND	ND	3.1	ND	13	ND	ND	ND	ND	ND	ND

ND = Not Detected

<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

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

	Surve	ey Date												06/17	/2014										
	Surve	у Туре												V - Vess	el Based										
Co	onstructi	on Activi	ity	PDC	- Pile [	Oriving	- Zone C		Com	nents															
	Ti	ide												Et	b										
		Location												Pier	33										
Sam Loca	tion				Upcı	urrent (An	nbient	)									!	Downcur	rent						
Distan Sou						Appr	ox. 500 - 1	1000 ft	ı										500 ft <sup>2</sup>	2					
Samp	le ID		061714-P033-E-U															06	1714-P03	3-E-D					
Sample	Time						11:03												10:46						
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
Un	it	(ppm)					(r	opb)	•					(ppm)				•		(ppb)	•		•		
Detection	n 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 C		*	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
ssult <sup>4</sup>	s	34.0	ND	ND	3.4	ND	14	ND	ND	ND	ND	ND	ND	29.6	ND	ND	3.0	ND	11	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М	44.0	ND	ND	3.4	ND	11	ND	ND	ND	ND	ND	ND	43.2	ND	ND	3.0	ND	ND	ND	ND	ND	ND	ND	ND
Analy	В	43.6	ND	ND	3.6	ND	11	ND	ND	ND	ND	ND	ND	50.5	ND	ND	ND	ND	12	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

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

	Surv	ey Date												06/17	/2014										
	Surve	у Туре												V - Vess	el Based										
Co	onstruct	ion Activ	ity	PDC	- Pile	Driving	- Zone C		Com	nents															
	Т	ide												Flo	od										
		Location												Pier	r <b>33</b>										
Sam Loca					Upcı	urrent (An	nbient	)									!	Downcur	rent						
Distan Sou		Approx. 500 - 1000 ft <sup>1</sup>																500 ft <sup>2</sup>	2						
Samp	ole ID		Approx. 500 - 1000 ft' 061714-P033-F-U															06	1714-P03	3-F-D					
Sample	e Time						11:41												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
Un	nit	(ppm)					(r	ppb)						(ppm)						ppb)					ı
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		ŀ	-	1	0.2	0.2	0.2	0.2	ı	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
ssult4	s	19.2	ND	ND	3.5	ND	12	ND	ND	ND	ND	ND	ND	25.6	ND	ND	3.2	ND	12	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М	26.8	ND	ND	3.5	ND	12	ND	ND	ND	ND	ND	ND	39.2	ND	ND	3.1	ND	13	ND	ND	ND	ND	ND	ND
Analy	В	52.8	ND	ND	3.0	ND	12	ND	ND	ND	ND	ND	ND	41.6	ND	ND	3.3	ND	16	ND	ND	ND	ND	ND	ND

ND = Not Detected

<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

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

	Surv	ey Date												06/18	3/2014										
	Surve	у Туре												V - Vess	sel Based										
C	onstruct	ion Activ	ity		ARM -	Armori	ng		Com	nents															
	Т	ide												E	bb										
		Location												Armoring	Operation	าร									
Sample Location						Upcu	rrent (A	mbien	t)									ı	Downcur	rent					
Distar Sou					Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft <sup>2</sup>	?						
Samp	ole ID					061	814-A26	3-E-U										06	1814-A26	3-E-D					
Sample	e Time						09:46												09:30						
Darameter		al 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	ni#	Total						ppb)	Ā	Ā	Ā		Be							ppb)	Ā	Ar	Ā		Be
Detectio		Ambient + 100	0.05					0.2	0.2	0.2	0.2		0.1	Ambient + 100 (mdd)	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
esult⁴	s	46.0	ND	ND	3.4	ND	10	ND	ND	ND	ND	ND	ND	49.6	ND	ND	3.4	ND	12	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М						NS												NS						
Anal	В	51.6	ND	ND	3.1	ND	12	ND	ND	ND	ND	ND	ND	49.6	ND	ND	3.3	ND	11	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

	Surv	ey Date												06/19	9/2014										
	Surve	у Туре												V - Vess	sel Based										
Co	onstruct	ion Activ	ity		ARM -	Armori	ng		Com	nents															
	Т	ide												Fl	bod										
		Location												Armoring	Operation	าร									
Sam Loca	tion		Upcurrent (Ambient)															I	Downcur	rent					
Distan Sou		Approx. 500 - 1000 ft <sup>1</sup>																500 ft <sup>2</sup>	2						
Samp	le ID		061914-A263-F-U															06	1914-A26	3-F-D					
Sample	Time						13:20												13:00						
		pep								СВ		ø	ane	pep								СВ		Ð	eu 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
Un	it	(ppm)					(	ppb)						(ppm)					(	(ppb)					
Detectio	n Limit <sup>3</sup>	Ambient + 100	0.05			-		0.2	0.2	0.2	0.2	ŀ	0.1	Ambient + 100	0.05	1	1	I	I	0.2	0.2	0.2	0.2	ı	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
esult4	s	34.0	ND	ND	3.4	ND	10	ND	ND	ND	ND	ND	ND	28.4	ND	ND	3.4	ND	ND	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М						NS												NS						
Analy	В	38.4	ND	ND	3.7	ND	12	ND	ND	ND	ND	ND	ND	30.4	ND	ND	3.4	ND	13	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												06/20	)/2014										
	Surve	у Туре												V - Vess	sel Based										
Co	onstructi	ion Activi	ity		ARM -	Armori	ng		Com	nents															
	Ti	ide												Е	bb										
		Location												Armoring	Operation	าร									
Sam Loca	tion					Upcu	rrent (A	mbien	t)									ı	Downcur	rent					
Distan Sou		Approx. 500 - 1000 ft <sup>1</sup>																500 ft <sup>2</sup>	?						
Samp	le ID	062014-A263-E-U																06	2014-A26	3-E-D					
Sample	Time		11:27																11:07						
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 B	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Un	it	(ppm)		<u> </u>			(	ppb)						(ppm)						ppb)					
Detectio	n Limit <sup>3</sup>	Ambient +	0.05				1	0.2	0.2	0.2	0.2	-	0.1	Ambient +	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
esult⁴	s	90.0	ND	ND	3.3	ND	17	ND	ND	ND	ND	ND	ND	51.6	ND	ND	3.1	ND	15	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М		NS																NS						
Anal)	В	62.0	ND	ND	3.1	ND	16	ND	ND	ND	ND	ND	ND	68.4	ND	ND	3.3	ND	15	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

	Surv	ey Date												06/20	)/2014										
	Surve	у Туре												V - Vess	sel Based										
C	onstruct	ion Activ	ity		ARM -	Armori	ng		Com	nents															
	Т	ide												Flo	bod										
		Location												Armoring	Operation	าร									
Sam Loca	tion					Upcu	rrent (A	mbien	t)									I	Downcur	rent					
Distar Sou						Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft <sup>2</sup>	2					
Samp	le ID					062	014-A26	3-F-U										06	2014-A26	3-F-D					
Sample	Time						15:56												16:09						
		pəp								СВ		ē	ene	pep								СВ		ō	ene
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				ŀ	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	ı	1	0.2	0.2	0.2	0.2	ŀ	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
sult⁴	s	33.6	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	34.8	ND	ND	3.3	ND	17	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М				_		NS												NS						
Analy	В	56.0	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	46.8	ND	ND	3.3	ND	16	ND	ND	ND	ND	ND	ND

ND = Not Detected

<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

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												06/21	/2014										
	Surve	у Туре												V - Vess	sel Based										
С	onstruct	ion Activi	ity		ARM -	Armori	ng		Com	ments															
		ide												E	bb										
		Location												Armoring	Operation	ns									
	nple ation					Upcu	rrent (A	mbien	t)									I	Downcuri	rent					
Distai Sou	nce to irce	Approx. 500 - 1000 ft <sup>1</sup>																	500 ft <sup>2</sup>	2					
Samı	ple ID	062114-A263-E-U															06	2114-A26	3-E-D						
Sampl	e Time						10:16												09:57						
yopomorod	raiaileie	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				ı	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	ı	ı	ı	1	0.2	0.2	0.2	0.2	-	0.1
Water Stand	- 1	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	1	ı	16	0.0006
esult <sup>4</sup>	s	22.4	ND	ND	4.2	ND	16	ND	ND	ND	ND	ND	ND	23.6	ND	ND	4.1	ND	12	ND	ND	ND	ND	ND	ND
Analytical Resulf⁴	М						NS												NS						
Anal	В	64.0	ND	ND	4.0	ND	ND	ND	ND	ND	ND	ND	ND	27.5	ND	ND	4.1	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
- 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												06/23	3/2014										
	Surve	у Туре												V - Vess	sel Based										
С	onstruct	ion Activi	ity		ARM -	Armori	ing		Comi	nents															
		ide													bb										
		Location												Armoring	Operation	ns									
San Loca	nple ation	tion Upcurrent (Ambient)															I	Downcuri	rent						
Distar Soເ		Approx. 500 - 1000 ft <sup>1</sup>																500 ft <sup>2</sup>							
Samı	ole ID		062314-A263-E-U															06	2314-A26	3-E-D					
Sampl	e Time						13:20								_				13:03						
Doromotor		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		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
esulť	s	24.4	ND ND 3.9 ND 13 ND ND ND ND ND ND ND ND											40.8	ND	ND	4.0	ND	12	ND	ND	ND	ND	ND	ND
Analytical Resulf⁴	М					١	NS												NS						
Analy	В	26.4	ND	ND	3.5	ND	12	ND	ND	ND	ND	ND	ND	60.4	ND	ND	4.0	ND	15	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
- 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												06/24	/2014										
	Surve	у Туре												V - Vess	sel Based										
C	onstructi	ion Activi	ity		ARM -	Armori	ng		Com	ments															
	Т	ide												E	bb										
		Location												Armoring	Operation	ns									
Sam Loca					Upcu	rrent (A	mbien	t)									l	Downcur	rent						
Distan Sou					Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft <sup>2</sup>	2						
Samp	Sample ID 062414-A263-E-U															06	2414-A26	3-E-D							
Sample	e Time						11:33												11:23						
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				-	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	-	-		-	16	0.0006
sulf*	s	NS NS																	NS						
Analytical Resulf⁴	М	28.0	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	47.2	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND
Analy	В						NS			-									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
- $^3$  Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
- -- No detection limit or water quality standard
- \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected
- NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.
  - <sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

	Surve	ey Date												06/25	5/2014										
	Surve	у Туре												V - Vess	sel Based										
C	onstructi	ion Activi	ity		ARM -	Armori	ng		Com	ments															
	Т	ide												E	bb										
		Location												Armoring	Operation	ns									
Sam Loca					Upcu	rrent (A	mbien	t)									l	Downcur	rent						
Distan Sou				Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft <sup>2</sup>	2							
Samp	Sample ID 062514-A263-E-U															06	2514-A26	3-E-D							
Sample	e Time						12:22												12:09						
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
Un	nit	(ppm)					(	ppb)						(ppm)						(ppb)				•	
Detectio	n Limit³	Ambient + 100	0.05			1	-	0.2	0.2	0.2	0.2	ı	0.1	Ambient + 100	0.05	ı	ı			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
sulf*	s		NS NS																NS						
Analytical Resulf⁴	М	23.6	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	61.2	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND
Analy	В						NS			-									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
- $^3$  Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
- -- No detection limit or water quality standard
- \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected
- NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.
  - <sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

	Surve	ey Date												06/25	5/2014										
	Surve	у Туре												V - Ves	sel Based										
С	onstruct	ion Activi	ty		ARM -	Armori	ng		Com	ments															
	Т	ide												FI	ood										
		Location												Armoring	Operation	ns									
	nple ation					Upcu	rrent (A	mbient	t)									l	Downcur	rent					
	nce to ırce					Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft <sup>2</sup>	2					
Samı	ole ID					062	514-A26	3-F-U										06	2514-A26	3-F-D					
Sampl	e Time						09:42												09:56						
rotomorod	רמומוופנפו	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		-	ı	-	0.2	0.2	0.2	0.2		0.1	Ambient + 100	0.05	ı	ı	ı		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
esul⁴	s	32.8	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	26.0	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND
Analytical Resul <sup>∉</sup>	М						NS												NS						
Anal	В	34.0	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	35.6	ND	ND	ND	ND	14	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>&</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												06/26	5/2014										
	Surve	у Туре												V - Vess	sel Based										
Co		ion Activi	ty		ARM -	Armori	ng		Com	ments															
	Ti	ide												E	bb										
		Location												Armoring	Operation	าร									
Sam Loca						Upcu	rrent (A	mbien	t)									I	Downcur	rent					
Distan Sou						Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft <sup>2</sup>	2					
Samp	le ID					062	614-A26	3-E-U										06	2614-A26	3-E-D					
Sample	Time						13:31												13:15						
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
Un	it	(ppm)		<u> </u>		<u> </u>	(	ppb)		,				(ppm)						(ppb)					
Detection	n Limit <sup>3</sup>	Ambient + 100	0.05				ı	0.2	0.2	0.2	0.2		0.1	Ambient + 100	0.05	1	1	1		0.2	0.2	0.2	0.2	1	0.1
Water 0	-	*	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
sult <sup>4</sup>	s						NS												NS						
Analytical Result <sup>4</sup>	М	28.0	ND	ND	4.3	ND	13	ND	ND	ND	ND	ND	ND	27.6	ND	ND	4.1	ND	10	ND	ND	ND	ND	ND	ND
Analy	В			-	•		NS		•	•	•	-				•	•	•	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>&</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												06/26	5/2014										
	Surve	у Туре												V - Vess	sel Based										
Co	nstructi	ion Activi	ty	-	ARM -	Armori	ng		Com	nents								-							
	Т	ide													ood										
		Location												Armoring	Operation	าร									
Sam Loca	tion					Upcu	rrent (A	mbien	t)									I	Downcur	rent					
Distan Sou						Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft	2					
Samp	le ID					062	614-A26	3-F-U										06	62614-A26	63-F-D					
Sample	Time						07:45												07:57	•					
-		nded	>					7.		ZB	9	ene	rene	nded	_		_			12		ZB	0	ane	rene
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
Un	it	(ppm)					(	ppb)						(ppm)					(	(ppb)					
Detectio	n Limit <sup>3</sup>	Ambient + 100	0.05	1	1	1	ı	0.2	0.2	0.2	0.2		0.1	Ambient + 100	0.05	1	ı			0.2	0.2	0.2	0.2	1	0.1
Water 0	-	*	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						NS												NS						
Analytical Result <sup>4</sup>	М	34.4	ND	ND	4.1	ND	12	ND	ND	ND	ND	ND	ND	56.4	ND	ND	3.8	ND	11	ND	ND	ND	ND	ND	ND
Analy	В						NS												NS						

<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

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

	Surve	ey Date												06/26	/2014										
	Surve	у Туре												V - Vess	el Based										
Co		on Activ	ity	PDC	- Pile [	Driving	- Zone C		Com	ments															
		de												Ek											
		Location												Pier	33										
Sam Loca	tion	Upcurrent (Ambient)																l	Downcur	rent					
Distan Sou		Approx. 500 - 1000 ft <sup>1</sup>																	500 ft <sup>2</sup>	2					
Samp	le ID					062	2614-P033	3-E-U										06	2614-P03	3-E-D					
Sample	Time						12:50												12:30						
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
Un	it	(ppm)					(r	opb)						(ppm)					(	(ppb)					
Detectio	n Limit³	Ambient + 100	0.05			ı	-	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		*	0.0007	8.2	5.6	8.0	66					16	0.0006	*	0.0007	8.2	5.6	8.0	66					16	0.0006
sult <sup>4</sup>	s	14.0	ND	ND	4.0	ND	12	ND	ND	ND	ND	ND	ND	16.8	ND	ND	4.1	ND	13	ND	ND	ND	ND	ND	ND
Analytical Result <sup>4</sup>	М	19.2	ND	ND	3.9	ND	14	ND	ND	ND	ND	ND	ND	26.0	ND	ND	3.6	ND	13	ND	ND	ND	ND	ND	ND
Analy	В	33.2	ND	ND	3.2	ND	12	ND	ND	ND	ND	ND	ND	33.2	ND	ND	3.3	ND	14	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

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

	Surve	ey Date												06/26	/2014										
	Surve	у Туре												V - Vess	el Based										
Co	nstructi	ion Activ	ity	PDC	- Pile [	Oriving	- Zone C		Com	ments															
		ide												Flo	od										
		Location												Pie	r 33										
Sam Loca		Upcurrent (Ambient)																I	Downcur	rent					
Distan Sou		Approx. 500 - 1000 ft <sup>1</sup>																	500 ft <sup>2</sup>	2					
Samp	le ID					062	2614-P033	3-F-U										06	2614-P03	3-F-D					
Sample	Time						10:12												09:47						
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
Un	it	(ppm)					(1	opb)						(ppm)						(ppb)					
Detectio	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 0	,	*	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	19.2	ND	ND	3.9	ND	12	ND	ND	ND	ND	ND	ND	20.8	ND	ND	3.5	ND	12	ND	ND	ND	ND	ND	ND
Analytical Result <sup>4</sup>	М	38.4	ND	ND	3.5	ND	13	ND	ND	ND	ND	ND	ND	36.0	ND	ND	3.5	ND	11	ND	ND	ND	ND	ND	ND
Analy	В	62.8	ND	ND	4.0	ND	12	ND	ND	ND	ND	ND	ND	46.0	ND	ND	3.7	ND	12	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

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

	Surve	ey Date												06/27	7/2014										
	Surve	у Туре												V - Vess	sel Based										
Co	onstructi	ion Activi	ity		ARM -	Armori	ng		Com	ments															
	Т	ide												Fl	ood										
		Location												Armoring	Operation	าร									
Sam Loca	tion					Upcu	rrent (A	mbien	t)									I	Downcur	rent					
Distar Sou		Approx. 500 - 1000 ft <sup>1</sup>																	500 ft <sup>2</sup>	2					
Samp	le ID		062714-A263-F-U															06	2714-A26	3-F-D					
Sample	e Time						10:19												10:36						
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)		l	l			(ppb)	,					(ppm)						(ppb)		,	,		
Detectio	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	I	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			ı	ı	16	0.0006
esult <sup>4</sup>	s	23.2	ND	ND	4.5	ND	16	ND	ND	ND	ND	ND	ND	28.4	ND	ND	4.5	ND	14	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М						NS												NS						
Anal	В	32.4	ND	ND	4.6	ND	15	ND	ND	ND	ND	ND	ND	28.8	ND	ND	4.5	ND	13	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

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

	Surve	ey Date													06/27/2014											
	Surve	у Туре												V - Vess	sel Based											
C		ion Activ	ity		ARM -	Armori	ng		Com	nents																
		ide												Ebb												
		Location												Armoring Operations												
San Loca	nple ation					Upcu	rrent (A	mbien	t)					Downcurrent												
Distar Sou		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Samp	ole ID	062714-A263-E-U												062714-A263-E-D												
Sample	e Time	13:30													13:12											
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		ı	ı	ı	0.2	0.2	0.2	0.2	ı	0.1	
Water (	- 1	*	0.0007	8.2	5.6	8.0	66	-				16	0.0006	*	0.0007	8.2	5.6	8.0	66	1	ı	1	ı	16	0.0006	
S 19.6 ND				ND	4.5	ND	13	ND	ND	ND	ND	ND	ND	40.0	ND	ND	4.5	ND	11	ND	ND	ND	ND	ND	ND	
Analytical Result⁴	М	NS															NS									
Anal)	В	21.6 ND ND 4.5 ND									ND	29.6	ND	ND	4.5	ND	14	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

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

	Surve	ey Date												06/28	06/28/2014												
	Surve	у Туре												V - Vess	sel Based												
C		ion Activ	ity		ARM -	Armori	ng		Com	ments																	
		ide												Flood													
		Location												Armoring Operations													
Sam Loca	ition					Upcu	rrent (A	mbien	t)					Downcurrent													
Distar Sou			Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Samp	ole ID		062814-A263-F-U												062814-A263-F-D												
Sample	e Time	10:54													10:30												
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					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	ı	ı	ı	ı	16	0.0006		
esult <sup>4</sup>	ND	ND	4.4	ND	11	ND	ND	ND	ND	ND	ND	28.0	ND	ND	4.5	ND	11	ND	ND	ND	ND	ND	ND				
Analytical Result⁴	M NS														NS												
Anal	В	30.0 ND ND 4.4 ND 11 ND ND ND ND ND ND ND ND								ND	212	ND	ND	4.5	ND	12	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

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

	Surv	ey Date													06/30/2014											
	Surve	у Туре												V - Vess	sel Based											
С		ion Activ	ity		ARM -	Armori	ng		Com	nents																
		ide												Ebb												
		Location												Armoring Operations												
San Loca	nple ation					Upcu	rrent (A	mbien	t)					Downcurrent												
	nce to irce	Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Samp	ole ID	063014-A263-E-U												063014-A263-E-D												
Sampl	e Time	15:39													15:23											
Darameter	ra allece	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)												
Detectio	on Limit <sup>3</sup>	Ambient + 100	0.05			-	1	0.2	0.2	0.2	0.2		0.1	Ambient + 100	0.05	-	ı	-	1	0.2	0.2	0.2	0.2	1	0.1	
Water (	•	*	0.0007	8.2	5.6	8.0	66	1	1			16	0.0006	*	0.0007	8.2	5.6	8.0	66	1	1	ı	ı	16	0.0006	
ssult⁴	S 24.0 ND					ND	10	ND	ND	ND	ND	ND	ND	20.8	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	
Analytical Result⁴	М	NS															NS									
Anal	В	37.2 ND ND ND ND 12 ND ND ND ND ND ND N									ND	22.8         ND         ND         ND         ND         10         ND         ND         ND         ND         ND         ND								ND						

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<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

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

	Surve	ey Date												06/30	06/30/2014											
	Surve	у Туре												V - Vess	sel Based											
Co		ion Activ	ity		ARM -	Armori	ng		Com	ments																
		ide												Flood												
		Location												Armoring Operations												
Sam Loca	tion					Upcu	rrent (A	mbien	t)					Downcurrent												
Distan Sou			Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
Samp	le ID		063014-A263-F-U												063014-A263-F-D											
Sample	Time	12:49													13:09											
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	
Un	iit	(ppm)					(	ppb)						(ppm)					(	ppb)						
Detectio	n 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	1	0.1	
Water 0	-	*	0.0007	8.2	5.6	8.0	66		-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66			ı	ı	16	0.0006	
esult <sup>4</sup>	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	31.6	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND				
Analytical Result <sup>4</sup>	М	NS											-				NS	-	-							
Analy	В	38.8	38.8									ND	31.2	ND	ND	ND	ND	11	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

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

	Surve	ey Date												06/30	/2014											
	Surve	у Туре				V - Vessel Based																				
Co	nstructi	ion Activ	ity	PDC	- Pile [	Driving	- Zone C		Com	ments																
		ide												Flood												
		Location												Pier	33											
Sam Loca						Upcı	urrent (An	nbient	)					Downcurrent												
Distan Sou						Appr	ox. 500 - 1	1000 ft	1					500 ft <sup>2</sup>												
Samp	le ID					063	3014-P033	3-F-U						063014-P033-F-D												
Sample	Time			14:55		14:30																				
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	
Un	it	(ppm)		(ppb)										(ppm) (ppb)												
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				1	0.2	0.2	0.2	0.2	1	0.1	
Water 0		*	0.0007	8.2	5.6	8.0	66	ı		-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66		ı	1	ı	16	0.0006	
ssult <sup>4</sup>	s	11.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.2	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	
Analytical Result <sup>4</sup>	М	21.6	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	21.2	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	
<b>B</b> 33.2 ND				ND	ND	ND	11	ND	ND	ND	ND	ND	ND	37.2	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>&</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

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