

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------|------------------------------------|---------|--------|--------|------|-----------------|--------------|--------------|--------------|--------------|-------------|---------------------|------------------------|---------|--------|--------|------|------|--------------|--------------|--------------|--------------|-------------|----------------|
| Survey Date | | 01/13/2014 | | | | | | | | | | | | | | | | | | | | | | | |
| Survey Type | | V - Vessel Based | | | | | | | | | | | | | | | | | | | | | | | |
| Construction Activity | | ARM - Armoring | | | | | Comments | | | | | | | | | | | | | | | | | | |
| Tide | | Ebb | | | | | | | | | | | | | | | | | | | | | | | |
| Source Location | | Armoring Operations | | | | | | | | | | | | | | | | | | | | | | | |
| Sample Location | | Upcurrent (Ambient) | | | | | | | | | | | Downcurrent | | | | | | | | | | | | |
| Distance to Source | | Approx. 500 - 1000 ft ¹ | | | | | | | | | | | 500 ft ² | | | | | | | | | | | | |
| Sample ID | | 011314-A263-E-U | | | | | | | | | | | 011314-A263-E-D | | | | | | | | | | | | |
| Sample Time | | 13:46 | | | | | | | | | | | 13:20 | | | | | | | | | | | | |
| Parameter | | Total Suspended Solids | Mercury | Nickel | Copper | Lead | Zinc | PCB | | | | Naphthalene | Benzo(a)pyrene | Total Suspended Solids | Mercury | Nickel | Copper | Lead | Zinc | PCB | | | | Naphthalene | Benzo(a)pyrene |
| | | | | | | | | Aroclor 1242 | Aroclor 1248 | Aroclor 1254 | Aroclor 1260 | | | | | | | | | Aroclor 1242 | Aroclor 1248 | Aroclor 1254 | Aroclor 1260 | | |
| Unit | | (ppm) | (ppb) | | | | | | | | | | | (ppm) | (ppb) | | | | | | | | | | |
| Detection Limit³ | | Ambient + 100 | 0.05 | - | - | - | - | 0.2 | 0.2 | 0.2 | 0.2 | - | 0.1 | Ambient + 100 | 0.05 | - | - | - | - | 0.2 | 0.2 | 0.2 | 0.2 | - | 0.1 |
| Water Quality Standard³ | | * | 0.0007 | 8.2 | 5.6 | 8.0 | 66 | -- | -- | -- | -- | 16 | 0.0006 | * | 0.0007 | 8.2 | 5.6 | 8.0 | 66 | -- | -- | -- | -- | 16 | 0.0006 |
| Analytical Result⁴ | S | 43.2 | ND | ND | ND | ND | 16 | ND | ND | ND | ND | ND | ND | 39.2 | ND | ND | 3.1 | ND | 15 | ND | ND | ND | ND | ND | ND |
| | M | NS | | | | | | | | | | | NS | | | | | | | | | | | | |
| | B | 41.2 | ND | ND | ND | ND | 14 | ND | ND | ND | ND | ND | ND | ND | 39.2 | ND | ND | ND | ND | 14 | ND | ND | ND | ND | ND |

Notes:

- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
- 2 Samples collected at the edge of the 500 ft mixing zone
- 3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
 -- No detection limit or water quality standard
 * None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- 4 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.
 S = Near Surface, M = Mid-Depth, B = Near Bottom

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------|------------------------------------|---------|--------|--------|------|-----------------|--------------|--------------|--------------|--------------|-------------|---------------------|------------------------|---------|--------|--------|------|------|--------------|--------------|--------------|--------------|-------------|----------------|
| Survey Date | | 01/14/2014 | | | | | | | | | | | | | | | | | | | | | | | |
| Survey Type | | V - Vessel Based | | | | | | | | | | | | | | | | | | | | | | | |
| Construction Activity | | ARM - Armoring | | | | | Comments | | | | | | | | | | | | | | | | | | |
| Tide | | Ebb | | | | | | | | | | | | | | | | | | | | | | | |
| Source Location | | Armoring Operations | | | | | | | | | | | | | | | | | | | | | | | |
| Sample Location | | Upcurrent (Ambient) | | | | | | | | | | | Downcurrent | | | | | | | | | | | | |
| Distance to Source | | Approx. 500 - 1000 ft ¹ | | | | | | | | | | | 500 ft ² | | | | | | | | | | | | |
| Sample ID | | 011414-A263-E-U | | | | | | | | | | | 011414-A263-E-D | | | | | | | | | | | | |
| Sample Time | | 11:31 | | | | | | | | | | | 11:58 | | | | | | | | | | | | |
| Parameter | | Total Suspended Solids | Mercury | Nickel | Copper | Lead | Zinc | PCB | | | | Naphthalene | Benzo(a)pyrene | Total Suspended Solids | Mercury | Nickel | Copper | Lead | Zinc | PCB | | | | Naphthalene | Benzo(a)pyrene |
| | | | | | | | | Aroclor 1242 | Aroclor 1248 | Aroclor 1254 | Aroclor 1260 | | | | | | | | | Aroclor 1242 | Aroclor 1248 | Aroclor 1254 | Aroclor 1260 | | |
| Unit | | (ppm) | (ppb) | | | | | | | | | | | (ppm) | (ppb) | | | | | | | | | | |
| Detection Limit³ | | Ambient + 100 | 0.05 | - | - | - | - | 0.2 | 0.2 | 0.2 | 0.2 | - | 0.1 | Ambient + 100 | 0.05 | - | - | - | - | 0.2 | 0.2 | 0.2 | 0.2 | - | 0.1 |
| Water Quality Standard³ | | * | 0.0007 | 8.2 | 5.6 | 8.0 | 66 | -- | -- | -- | -- | 16 | 0.0006 | * | 0.0007 | 8.2 | 5.6 | 8.0 | 66 | -- | -- | -- | -- | 16 | 0.0006 |
| Analytical Result⁴ | S | 22.0 | ND | ND | 3.3 | ND | 14 | ND | ND | ND | ND | ND | ND | 53.2 | ND | ND | ND | ND | 12 | ND | ND | ND | ND | ND | ND |
| | M | NS | | | | | | | | | | | 3NS | | | | | | | | | | | | |
| | B | 28.0 | ND | ND | ND | ND | 15 | ND | ND | ND | ND | ND | ND | ND | 61.2 | ND | ND | 3.1 | ND | 14 | ND | ND | ND | ND | ND |

Notes:

- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
- 2 Samples collected at the edge of the 500 ft mixing zone
- 3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
- No detection limit or water quality standard
- * None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected
 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.
⁴ S = Near Surface, M = Mid-Depth, B = Near Bottom

| Survey Date | | 01/14/2014 | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|------------------------|------------------------------------|--------|--------|------|------|--------------|--------------|--------------|--------------|-------------|----------------|------------------------|---------------------|--------|--------|------|------|--------------|--------------|--------------|--------------|-------------|----------------|
| Survey Type | | V - Vessel Based | | | | | | | | | | | | | | | | | | | | | | |
| Construction Activity | | ARM - Armoring | | | | | Comments | | | | | | | | | | | | | | | | | |
| Tide | | Flood | | | | | | | | | | | | | | | | | | | | | | |
| Source Location | | Armoring Operations | | | | | | | | | | | | | | | | | | | | | | |
| Sample Location | | Upcurrent (Ambient) | | | | | | | | | | | | Downcurrent | | | | | | | | | | |
| Distance to Source | | Approx. 500 - 1000 ft ¹ | | | | | | | | | | | | 500 ft ² | | | | | | | | | | |
| Sample ID | | 011414-A263-F-U | | | | | | | | | | | | 011414-A263-F-D | | | | | | | | | | |
| Sample Time | | 09:35 | | | | | | | | | | | | 09:01 | | | | | | | | | | |
| Parameter | Total Suspended Solids | Mercury | Nickel | Copper | Lead | Zinc | PCB | | | | Naphthalene | Benzo(a)pyrene | Total Suspended Solids | Mercury | Nickel | Copper | Lead | Zinc | PCB | | | | Naphthalene | Benzo(a)pyrene |
| | | | | | | | Aroclor 1242 | Aroclor 1248 | Aroclor 1254 | Aroclor 1260 | | | | | | | | | Aroclor 1242 | Aroclor 1248 | Aroclor 1254 | Aroclor 1260 | | |
| Unit | (ppm) | (ppb) | | | | | | | | | | | (ppm) | (ppb) | | | | | | | | | | |
| Detection Limit ³ | Ambient + 100 | 0.05 | - | - | - | - | 0.2 | 0.2 | 0.2 | 0.2 | - | 0.1 | Ambient + 100 | 0.05 | - | - | - | - | 0.2 | 0.2 | 0.2 | 0.2 | - | 0.1 |
| Water Quality Standard ³ | * | 0.0007 | 8.2 | 5.6 | 8.0 | 66 | -- | -- | -- | -- | 16 | 0.0006 | * | 0.0007 | 8.2 | 5.6 | 8.0 | 66 | -- | -- | -- | -- | 16 | 0.0006 |
| Analytical Result ⁴ | S | 24.4 | ND | ND | ND | 15 | ND | ND | ND | ND | ND | ND | 30.0 | ND | ND | ND | ND | 14 | ND | ND | ND | ND | ND | ND |
| | M | NS | | | | | | | | | | | NS | | | | | | | | | | | |
| | B | 27.2 | ND | ND | 3.2 | ND | 18 | ND | ND | ND | ND | ND | ND | 29.2 | ND | ND | 3.5 | ND | 16 | ND | ND | ND | ND | ND |

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

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

³ Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

-- No detection limit or water quality standard

* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.

⁴ S = Near Surface, M = Mid-Depth, B = Near Bottom

| Survey Date | | 01/16/2014 | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|------------------------|------------------------------------|--------|--------|------|------|--------------|--------------|--------------|--------------|-------------|----------------|------------------------|---------------------|--------|--------|------|------|--------------|--------------|--------------|--------------|-------------|----------------|----|
| Survey Type | | V - Vessel Based | | | | | | | | | | | | | | | | | | | | | | | |
| Construction Activity | | ARM - Armoring | | | | | | Comments | | | | | | | | | | | | | | | | | |
| Tide | | Ebb | | | | | | | | | | | | | | | | | | | | | | | |
| Source Location | | Armoring Operations | | | | | | | | | | | | | | | | | | | | | | | |
| Sample Location | | Upcurrent (Ambient) | | | | | | | | | | | | Downcurrent | | | | | | | | | | | |
| Distance to Source | | Approx. 500 - 1000 ft ¹ | | | | | | | | | | | | 500 ft ² | | | | | | | | | | | |
| Sample ID | | 011614-A263-E-U | | | | | | | | | | | | 011614-A263-E-D | | | | | | | | | | | |
| Sample Time | | 12:46 | | | | | | | | | | | | 12:24 | | | | | | | | | | | |
| Parameter | Total Suspended Solids | Mercury | Nickel | Copper | Lead | Zinc | PCB | | | | Naphthalene | Benzo(a)pyrene | Total Suspended Solids | Mercury | Nickel | Copper | Lead | Zinc | PCB | | | | Naphthalene | Benzo(a)pyrene | |
| | | | | | | | Aroclor 1242 | Aroclor 1248 | Aroclor 1254 | Aroclor 1260 | | | | | | | | | Aroclor 1242 | Aroclor 1248 | Aroclor 1254 | Aroclor 1260 | | | |
| Unit | (ppm) | (ppb) | | | | | | | | | | | (ppm) | (ppb) | | | | | | | | | | | |
| Detection Limit ³ | Ambient + 100 | 0.05 | -- | -- | -- | -- | 0.2 | 0.2 | 0.2 | 0.2 | -- | 0.1 | Ambient + 100 | 0.05 | -- | -- | -- | -- | 0.2 | 0.2 | 0.2 | 0.2 | -- | 0.1 | |
| Water Quality Standard ³ | * | 0.0007 | 8.2 | 5.6 | 8.0 | 66 | -- | -- | -- | -- | 16 | 0.0006 | * | 0.0007 | 8.2 | 5.6 | 8.0 | 66 | -- | -- | -- | -- | 16 | 0.0006 | |
| Analytical Result ⁴ | S | 56.4 | ND | ND | ND | ND | 13 | ND | ND | ND | ND | ND | ND | 53.2 | ND | ND | ND | ND | 13 | ND | ND | ND | ND | ND | ND |
| | M | NS | | | | | | | | | | | | NS | | | | | | | | | | | |
| | B | 55.2 | ND | ND | ND | ND | 12 | ND | ND | ND | ND | ND | ND | ND | 49.2 | ND | ND | ND | ND | 10 | ND | ND | ND | ND | ND |

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

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

³ Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

-- No detection limit or water quality standard

* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.

⁴ S = Near Surface, M = Mid-Depth, B = Near Bottom

| Survey Date | | 01/16/2014 | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|------------------------|------------------------------------|--------|--------|------|------|--------------|--------------|--------------|--------------|-------------|----------------|------------------------|---------------------|--------|--------|------|------|--------------|--------------|--------------|--------------|-------------|----------------|
| Survey Type | | V - Vessel Based | | | | | | | | | | | | | | | | | | | | | | |
| Construction Activity | | ARM - Armoring | | | | | Comments | | | | | | | | | | | | | | | | | |
| Tide | | Flood | | | | | | | | | | | | | | | | | | | | | | |
| Source Location | | Armoring Operations | | | | | | | | | | | | | | | | | | | | | | |
| Sample Location | | Upcurrent (Ambient) | | | | | | | | | | | | Downcurrent | | | | | | | | | | |
| Distance to Source | | Approx. 500 - 1000 ft ¹ | | | | | | | | | | | | 500 ft ² | | | | | | | | | | |
| Sample ID | | 011614-A263-F-U | | | | | | | | | | | | 011614-A263-F-D | | | | | | | | | | |
| Sample Time | | 09:56 | | | | | | | | | | | | 09:30 | | | | | | | | | | |
| Parameter | Total Suspended Solids | Mercury | Nickel | Copper | Lead | Zinc | PCB | | | | Naphthalene | Benzo(a)pyrene | Total Suspended Solids | Mercury | Nickel | Copper | Lead | Zinc | PCB | | | | Naphthalene | Benzo(a)pyrene |
| | | | | | | | Aroclor 1242 | Aroclor 1248 | Aroclor 1254 | Aroclor 1260 | | | | | | | | | Aroclor 1242 | Aroclor 1248 | Aroclor 1254 | Aroclor 1260 | | |
| Unit | (ppm) | (ppb) | | | | | | | | | | | (ppm) | (ppb) | | | | | | | | | | |
| Detection Limit ³ | Ambient + 100 | 0.05 | - | - | - | - | 0.2 | 0.2 | 0.2 | 0.2 | - | 0.1 | Ambient + 100 | 0.05 | - | - | - | - | 0.2 | 0.2 | 0.2 | 0.2 | - | 0.1 |
| Water Quality Standard ³ | * | 0.0007 | 8.2 | 5.6 | 8.0 | 66 | -- | -- | -- | -- | 16 | 0.0006 | * | 0.0007 | 8.2 | 5.6 | 8.0 | 66 | -- | -- | -- | -- | 16 | 0.0006 |
| Analytical Result ⁴ | S | 57.2 | ND | ND | ND | 13 | ND | ND | ND | ND | ND | ND | 77.2 | ND | ND | ND | ND | 13 | ND | ND | ND | ND | ND | ND |
| | M | NS | | | | | | | | | | | NS | | | | | | | | | | | |
| | B | 64.0 | ND | ND | ND | ND | 13 | ND | ND | ND | ND | ND | ND | 114 | ND | ND | ND | ND | 14 | ND | ND | ND | ND | ND |

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

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

³ Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

-- No detection limit or water quality standard

* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.

⁴ S = Near Surface, M = Mid-Depth, B = Near Bottom

| Survey Date | | 01/17/2014 | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|------------------------|------------------------------------|--------|--------|------|------|--------------|--------------|--------------|--------------|-------------|----------------|------------------------|---------|--------|--------|------|------|--------------|--------------|--------------|--------------|-------------|----------------|----|
| Survey Type | | V - Vessel Based | | | | | | | | | | | | | | | | | | | | | | | |
| Construction Activity | | ARM - Armoring | | | | | Comments | | | | | | | | | | | | | | | | | | |
| Tide | | Ebb | | | | | | | | | | | | | | | | | | | | | | | |
| Source Location | | Armoring Operations | | | | | | | | | | | | | | | | | | | | | | | |
| Sample Location | | Upcurrent (Ambient) | | | | | | | | | | | Downcurrent | | | | | | | | | | | | |
| Distance to Source | | Approx. 500 - 1000 ft ¹ | | | | | | | | | | | 500 ft ² | | | | | | | | | | | | |
| Sample ID | | 011714-A263-E-U | | | | | | | | | | | 011714-A263-E-D | | | | | | | | | | | | |
| Sample Time | | 15:06 | | | | | | | | | | | 14:49 | | | | | | | | | | | | |
| Parameter | Total Suspended Solids | Mercury | Nickel | Copper | Lead | Zinc | PCB | | | | Naphthalene | Benzo(a)pyrene | Total Suspended Solids | Mercury | Nickel | Copper | Lead | Zinc | PCB | | | | Naphthalene | Benzo(a)pyrene | |
| | | | | | | | Aroclor 1242 | Aroclor 1248 | Aroclor 1254 | Aroclor 1260 | | | | | | | | | Aroclor 1242 | Aroclor 1248 | Aroclor 1254 | Aroclor 1260 | | | |
| Unit | (ppm) | (ppb) | | | | | | | | | | | (ppm) | (ppb) | | | | | | | | | | | |
| Detection Limit ³ | Ambient + 100 | 0.05 | -- | -- | -- | -- | 0.2 | 0.2 | 0.2 | 0.2 | -- | 0.1 | Ambient + 100 | 0.05 | -- | -- | -- | -- | 0.2 | 0.2 | 0.2 | 0.2 | -- | 0.1 | |
| Water Quality Standard ³ | * | 0.0007 | 8.2 | 5.6 | 8.0 | 66 | -- | -- | -- | -- | 16 | 0.0006 | * | 0.0007 | 8.2 | 5.6 | 8.0 | 66 | -- | -- | -- | -- | 16 | 0.0006 | |
| Analytical Result ⁴ | S | 82.4 | ND | ND | ND | ND | 12 | ND | ND | ND | ND | ND | ND | 77.2 | ND | ND | ND | ND | 13 | ND | ND | ND | ND | ND | ND |
| | M | NS | | | | | | | | | | | NS | | | | | | | | | | | | |
| | B | 81.6 | ND | ND | ND | ND | 14 | ND | ND | ND | ND | ND | ND | 84.0 | ND | ND | ND | ND | 13 | ND | ND | ND | ND | ND | ND |

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

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

³ Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

-- No detection limit or water quality standard

* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.

⁴ S = Near Surface, M = Mid-Depth, B = Near Bottom

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|--|------------------------------------|---------|--------|--------|------|----------|--------------|--------------|--------------|--------------|-------------|---------------------|------------------------|---------|--------|--------|------|------|--------------|--------------|--------------|--------------|-------------|----------------|----|
| Survey Date | | 01/17/2014 | | | | | | | | | | | | | | | | | | | | | | | | |
| Survey Type | | V - Vessel Based | | | | | | | | | | | | | | | | | | | | | | | | |
| Construction Activity | | ARM - Armoring | | | | | Comments | | | | | | | | | | | | | | | | | | | |
| Tide | | Flood | | | | | | | | | | | | | | | | | | | | | | | | |
| Source Location | | Armoring Operations | | | | | | | | | | | | | | | | | | | | | | | | |
| Sample Location | | Upcurrent (Ambient) | | | | | | | | | | | Downcurrent | | | | | | | | | | | | | |
| Distance to Source | | Approx. 500 - 1000 ft ¹ | | | | | | | | | | | 500 ft ² | | | | | | | | | | | | | |
| Sample ID | | 011714-A263-F-U | | | | | | | | | | | 011714-A263-F-D | | | | | | | | | | | | | |
| Sample Time | | 11:26 | | | | | | | | | | | 10:57 | | | | | | | | | | | | | |
| Parameter | | Total Suspended Solids | Mercury | Nickel | Copper | Lead | Zinc | PCB | | | | Naphthalene | Benzo(a)pyrene | Total Suspended Solids | Mercury | Nickel | Copper | Lead | Zinc | PCB | | | | Naphthalene | Benzo(a)pyrene | |
| | | | | | | | | Aroclor 1242 | Aroclor 1248 | Aroclor 1254 | Aroclor 1260 | | | | | | | | | Aroclor 1242 | Aroclor 1248 | Aroclor 1254 | Aroclor 1260 | | | |
| Unit | | (ppm) | (ppb) | | | | | | | | | | | (ppm) | (ppb) | | | | | | | | | | | |
| Detection Limit ³ | | Ambient + 100 | 0.05 | - | - | - | - | 0.2 | 0.2 | 0.2 | 0.2 | - | 0.1 | Ambient + 100 | 0.05 | - | - | - | - | 0.2 | 0.2 | 0.2 | 0.2 | - | 0.1 | |
| Water Quality Standard ³ | | * | 0.0007 | 8.2 | 5.6 | 8.0 | 66 | -- | -- | -- | -- | 16 | 0.0006 | * | 0.0007 | 8.2 | 5.6 | 8.0 | 66 | -- | -- | -- | -- | 16 | 0.0006 | |
| Analytical Result ⁴ | | S | 52.4 | ND | ND | ND | ND | 13 | ND | ND | ND | ND | ND | ND | 76.4 | ND | ND | ND | ND | 13 | ND | ND | ND | ND | ND | ND |
| | | M | NS | | | | | | | | | | | NS | | | | | | | | | | | | |
| | | B | 80.8 | ND | ND | ND | ND | 13 | ND | ND | ND | ND | ND | ND | ND | 82.4 | ND | ND | ND | ND | 12 | ND | ND | ND | ND | ND |

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

| Survey Date | | 01/18/2014 | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|------------------------|------------------------------------|--------|--------|------|------|--------------|--------------|--------------|--------------|-------------|----------------|------------------------|---------------------|--------|--------|------|------|--------------|--------------|--------------|--------------|-------------|----------------|
| Survey Type | | V - Vessel Based | | | | | | | | | | | | | | | | | | | | | | |
| Construction Activity | | ARM - Armoring | | | | | Comments | | | | | | | | | | | | | | | | | |
| Tide | | Flood | | | | | | | | | | | | | | | | | | | | | | |
| Source Location | | Armoring Operations | | | | | | | | | | | | | | | | | | | | | | |
| Sample Location | | Upcurrent (Ambient) | | | | | | | | | | | | Downcurrent | | | | | | | | | | |
| Distance to Source | | Approx. 500 - 1000 ft ¹ | | | | | | | | | | | | 500 ft ² | | | | | | | | | | |
| Sample ID | | 011814-A263-F-U | | | | | | | | | | | | 011814-A263-F-D | | | | | | | | | | |
| Sample Time | | 11:24 | | | | | | | | | | | | 10:51 | | | | | | | | | | |
| Parameter | Total Suspended Solids | Mercury | Nickel | Copper | Lead | Zinc | PCB | | | | Naphthalene | Benzo(a)pyrene | Total Suspended Solids | Mercury | Nickel | Copper | Lead | Zinc | PCB | | | | Naphthalene | Benzo(a)pyrene |
| | | | | | | | Aroclor 1242 | Aroclor 1248 | Aroclor 1254 | Aroclor 1260 | | | | | | | | | Aroclor 1242 | Aroclor 1248 | Aroclor 1254 | Aroclor 1260 | | |
| Unit | (ppm) | (ppb) | | | | | | | | | | | (ppm) | (ppb) | | | | | | | | | | |
| Detection Limit ³ | Ambient + 100 | 0.05 | - | - | - | - | 0.2 | 0.2 | 0.2 | 0.2 | - | 0.1 | Ambient + 100 | 0.05 | - | - | - | - | 0.2 | 0.2 | 0.2 | 0.2 | - | 0.1 |
| Water Quality Standard ³ | * | 0.0007 | 8.2 | 5.6 | 8.0 | 66 | -- | -- | -- | -- | 16 | 0.0006 | * | 0.0007 | 8.2 | 5.6 | 8.0 | 66 | -- | -- | -- | -- | 16 | 0.0006 |
| Analytical Result ⁴ | S | 68.8 | ND | ND | ND | 14 | ND | ND | ND | ND | ND | ND | 104 | ND | ND | ND | ND | 18 | ND | ND | ND | ND | ND | ND |
| | M | NS | | | | | | | | | | | NS | | | | | | | | | | | |
| | B | 87.6 | ND | ND | ND | ND | 14 | ND | ND | ND | ND | ND | ND | 126 | ND | ND | ND | ND | 16 | ND | ND | ND | ND | ND |

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

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

³ Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

-- No detection limit or water quality standard

* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.

⁴ S = Near Surface, M = Mid-Depth, B = Near Bottom

| Survey Date | | 01/18/2014 | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|------------------------|------------------------------------|--------|--------|------|------|--------------|--------------|--------------|--------------|-------------|----------------|------------------------|---------|--------|--------|------|------|--------------|--------------|--------------|--------------|-------------|----------------|
| Survey Type | | V - Vessel Based | | | | | | | | | | | | | | | | | | | | | | |
| Construction Activity | | PDC - Pile Driving - Zone C | | | | | Comments | | | | | | | | | | | | | | | | | |
| Tide | | Ebb | | | | | | | | | | | | | | | | | | | | | | |
| Source Location | | Pier 32 | | | | | | | | | | | | | | | | | | | | | | |
| Sample Location | | Upcurrent (Ambient) | | | | | | | | | | | Downcurrent | | | | | | | | | | | |
| Distance to Source | | Approx. 500 - 1000 ft ¹ | | | | | | | | | | | 500 ft ² | | | | | | | | | | | |
| Sample ID | | 011814-P032-E-U | | | | | | | | | | | 011814-P032-E-D | | | | | | | | | | | |
| Sample Time | | 15:11 | | | | | | | | | | | 14:45 | | | | | | | | | | | |
| Parameter | Total Suspended Solids | Mercury | Nickel | Copper | Lead | Zinc | PCB | | | | Naphthalene | Benzo(a)pyrene | Total Suspended Solids | Mercury | Nickel | Copper | Lead | Zinc | PCB | | | | Naphthalene | Benzo(a)pyrene |
| | | | | | | | Aroclor 1242 | Aroclor 1248 | Aroclor 1254 | Aroclor 1260 | | | | | | | | | Aroclor 1242 | Aroclor 1248 | Aroclor 1254 | Aroclor 1260 | | |
| Unit | (ppm) | (ppb) | | | | | | | | | | | (ppm) | (ppb) | | | | | | | | | | |
| Detection Limit ³ | Ambient + 100 | 0.05 | -- | -- | -- | -- | 0.2 | 0.2 | 0.2 | 0.2 | -- | 0.1 | Ambient + 100 | 0.05 | -- | -- | -- | -- | 0.2 | 0.2 | 0.2 | 0.2 | -- | 0.1 |
| Water Quality Standard ³ | * | 0.0007 | 8.2 | 5.6 | 8.0 | 66 | -- | -- | -- | -- | 16 | 0.0006 | * | 0.0007 | 8.2 | 5.6 | 8.0 | 66 | -- | -- | -- | -- | 16 | 0.0006 |
| Analytical Result ⁴ | S | 20.8 | ND | ND | ND | 17 | ND | ND | ND | ND | ND | ND | 40.8 | ND | ND | ND | ND | 17 | ND | ND | ND | ND | ND | ND |
| | M | 35.2 | ND | ND | ND | 14 | ND | ND | ND | ND | ND | ND | 35.6 | ND | ND | ND | ND | 15 | ND | ND | ND | ND | ND | ND |
| | B | 42.8 | ND | ND | 4.5 | ND | 15 | ND | ND | ND | ND | ND | 42.8 | ND | ND | ND | ND | 16 | ND | ND | ND | ND | ND | ND |

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

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

³ Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

-- No detection limit or water quality standard

* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.

⁴ S = Near Surface, M = Mid-Depth, B = Near Bottom

| Survey Date | | 01/18/2014 | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|------------------------|------------------------------------|--------|--------|------|------|--------------|--------------|--------------|--------------|-------------|---------------------|------------------------|---------|--------|--------|------|------|--------------|--------------|--------------|--------------|-------------|----------------|
| Survey Type | | V - Vessel Based | | | | | | | | | | | | | | | | | | | | | | |
| Construction Activity | | PDC - Pile Driving - Zone C | | | | | Comments | | | | | | | | | | | | | | | | | |
| Tide | | Flood | | | | | | | | | | | | | | | | | | | | | | |
| Source Location | | Pier 32 | | | | | | | | | | | | | | | | | | | | | | |
| Sample Location | | Upcurrent (Ambient) | | | | | | | | | | Downcurrent | | | | | | | | | | | | |
| Distance to Source | | Approx. 500 - 1000 ft ¹ | | | | | | | | | | 500 ft ² | | | | | | | | | | | | |
| Sample ID | | 011814-P032-F-U | | | | | | | | | | 011814-P032-F-D | | | | | | | | | | | | |
| Sample Time | | 11:57 | | | | | | | | | | 13:15 | | | | | | | | | | | | |
| Parameter | Total Suspended Solids | Mercury | Nickel | Copper | Lead | Zinc | PCB | | | | Naphthalene | Benzo(a)pyrene | Total Suspended Solids | Mercury | Nickel | Copper | Lead | Zinc | PCB | | | | Naphthalene | Benzo(a)pyrene |
| | | | | | | | Aroclor 1242 | Aroclor 1248 | Aroclor 1254 | Aroclor 1260 | | | | | | | | | Aroclor 1242 | Aroclor 1248 | Aroclor 1254 | Aroclor 1260 | | |
| Unit | (ppm) | (ppb) | | | | | | | | | | (ppm) | (ppb) | | | | | | | | | | | |
| Detection Limit ³ | Ambient + 100 | 0.05 | - | - | - | - | 0.2 | 0.2 | 0.2 | 0.2 | - | 0.1 | Ambient + 100 | 0.05 | - | - | - | - | 0.2 | 0.2 | 0.2 | 0.2 | - | 0.1 |
| Water Quality Standard ³ | * | 0.0007 | 8.2 | 5.6 | 8.0 | 66 | -- | -- | -- | -- | 16 | 0.0006 | * | 0.0007 | 8.2 | 5.6 | 8.0 | 66 | -- | -- | -- | -- | 16 | 0.0006 |
| Analytical Result ⁴ | S | 29.6 | ND | ND | ND | 13 | ND | ND | ND | ND | ND | ND | 28.8 | ND | ND | ND | ND | 15 | ND | ND | ND | ND | ND | ND |
| | M | 88.0 | ND | ND | ND | 17 | ND | ND | ND | ND | ND | ND | 38.8 | ND | ND | ND | ND | 15 | ND | ND | ND | ND | ND | ND |
| | B | 113 | ND | ND | ND | 13 | ND | ND | ND | ND | ND | ND | 65.6 | ND | ND | ND | ND | 13 | ND | ND | ND | ND | ND | ND |

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

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

³ Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

-- No detection limit or water quality standard

* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.

⁴ S = Near Surface, M = Mid-Depth, B = Near Bottom

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------|------------------------------------|---------|--------|--------|------|-----------------|--------------|--------------|--------------|--------------|-------------|----------------|------------------------|---------|--------|--------|------|------|--------------|--------------|--------------|--------------|-------------|----------------|----|--|
| Survey Date | | 01/20/2014 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Survey Type | | V - Vessel Based | | | | | | | | | | | | | | | | | | | | | | | | | |
| Construction Activity | | ARM - Armoring | | | | | Comments | | | | | | | | | | | | | | | | | | | | |
| Tide | | Ebb | | | | | | | | | | | | | | | | | | | | | | | | | |
| Source Location | | Armoring Operations | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sample Location | | Upcurrent (Ambient) | | | | | | | | | | | | Downcurrent | | | | | | | | | | | | | |
| Distance to Source | | Approx. 500 - 1000 ft ¹ | | | | | | | | | | | | 500 ft ² | | | | | | | | | | | | | |
| Sample ID | | 012014-A263-E-U | | | | | | | | | | | | 012014-A263-E-D | | | | | | | | | | | | | |
| Sample Time | | 16:02 | | | | | | | | | | | | 15:36 | | | | | | | | | | | | | |
| Parameter | | Total Suspended Solids | Mercury | Nickel | Copper | Lead | Zinc | PCB | | | | Naphthalene | Benzo(a)pyrene | Total Suspended Solids | Mercury | Nickel | Copper | Lead | Zinc | PCB | | | | Naphthalene | Benzo(a)pyrene | | |
| | | | | | | | | Aroclor 1242 | Aroclor 1248 | Aroclor 1254 | Aroclor 1260 | | | | | | | | | Aroclor 1242 | Aroclor 1248 | Aroclor 1254 | Aroclor 1260 | | | | |
| Unit | | (ppm) | (ppb) | | | | | | | | | | | | (ppm) | (ppb) | | | | | | | | | | | |
| Detection Limit³ | | Ambient + 100 | 0.05 | - | - | - | - | 0.2 | 0.2 | 0.2 | 0.2 | - | 0.1 | Ambient + 100 | 0.05 | - | - | - | - | 0.2 | 0.2 | 0.2 | 0.2 | - | 0.1 | | |
| Water Quality Standard³ | | * | 0.0007 | 8.2 | 5.6 | 8.0 | 66 | -- | -- | -- | -- | 16 | 0.0006 | * | 0.0007 | 8.2 | 5.6 | 8.0 | 66 | -- | -- | -- | -- | 16 | 0.0006 | | |
| Analytical Result⁴ | S | 64.8 | ND | ND | ND | ND | 14 | ND | ND | ND | ND | ND | ND | 89.2 | ND | ND | ND | ND | 11 | ND | ND | ND | ND | ND | ND | | |
| | M | NS | | | | | | | | | | | | NS | | | | | | | | | | | | | |
| | B | 56.8 | ND | ND | ND | ND | 14 | ND | ND | ND | ND | ND | ND | ND | 88.0 | ND | ND | ND | ND | 14 | ND | ND | ND | ND | ND | ND | |

Notes:

- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
- 2 Samples collected at the edge of the 500 ft mixing zone
- 3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
- No detection limit or water quality standard
- * None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

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⁴ S = Near Surface, M = Mid-Depth, B = Near Bottom

| Survey Date | | 01/20/2014 | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|------------------------|------------------------------------|--------|--------|------|------|--------------|--------------|--------------|--------------|-------------|----------------|------------------------|---------------------|--------|--------|------|------|--------------|--------------|--------------|--------------|-------------|----------------|
| Survey Type | | V - Vessel Based | | | | | | | | | | | | | | | | | | | | | | |
| Construction Activity | | ARM - Armoring | | | | | Comments | | | | | | | | | | | | | | | | | |
| Tide | | Flood | | | | | | | | | | | | | | | | | | | | | | |
| Source Location | | Armoring Operations | | | | | | | | | | | | | | | | | | | | | | |
| Sample Location | | Upcurrent (Ambient) | | | | | | | | | | | | Downcurrent | | | | | | | | | | |
| Distance to Source | | Approx. 500 - 1000 ft ¹ | | | | | | | | | | | | 500 ft ² | | | | | | | | | | |
| Sample ID | | 012014-A263-F-U | | | | | | | | | | | | 012014-A263-F-D | | | | | | | | | | |
| Sample Time | | 10:23 | | | | | | | | | | | | 10:05 | | | | | | | | | | |
| Parameter | Total Suspended Solids | Mercury | Nickel | Copper | Lead | Zinc | PCB | | | | Naphthalene | Benzo(a)pyrene | Total Suspended Solids | Mercury | Nickel | Copper | Lead | Zinc | PCB | | | | Naphthalene | Benzo(a)pyrene |
| | | | | | | | Aroclor 1242 | Aroclor 1248 | Aroclor 1254 | Aroclor 1260 | | | | | | | | | Aroclor 1242 | Aroclor 1248 | Aroclor 1254 | Aroclor 1260 | | |
| Unit | (ppm) | (ppb) | | | | | | | | | | (ppm) | (ppb) | | | | | | | | | | | |
| Detection Limit ³ | Ambient + 100 | 0.05 | - | - | - | - | 0.2 | 0.2 | 0.2 | 0.2 | - | 0.1 | Ambient + 100 | 0.05 | - | - | - | - | 0.2 | 0.2 | 0.2 | 0.2 | - | 0.1 |
| Water Quality Standard ³ | * | 0.0007 | 8.2 | 5.6 | 8.0 | 66 | -- | -- | -- | -- | 16 | 0.0006 | * | 0.0007 | 8.2 | 5.6 | 8.0 | 66 | -- | -- | -- | -- | 16 | 0.0006 |
| Analytical Result ⁴ | S | 67.2 | ND | ND | ND | 13 | ND | ND | ND | ND | ND | ND | 116 | ND | ND | ND | ND | 13 | ND | ND | ND | ND | ND | ND |
| | M | NS | | | | | | | | | | | | NS | | | | | | | | | | |
| | B | 77.6 | ND | ND | ND | ND | 13 | ND | ND | ND | ND | ND | ND | 127 | ND | ND | ND | ND | 14 | ND | ND | ND | ND | ND |

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

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

³ Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

-- No detection limit or water quality standard

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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|--|------------------------------------|---------|--------|--------|------|----------|--------------|--------------|--------------|--------------|-------------|---------------------|------------------------|---------|--------|--------|------|------|--------------|--------------|--------------|--------------|-------------|----------------|----|
| Survey Date | | 01/20/2014 | | | | | | | | | | | | | | | | | | | | | | | | |
| Survey Type | | V - Vessel Based | | | | | | | | | | | | | | | | | | | | | | | | |
| Construction Activity | | PDC - Pile Driving - Zone C | | | | | Comments | | | | | | | | | | | | | | | | | | | |
| Tide | | Flood | | | | | | | | | | | | | | | | | | | | | | | | |
| Source Location | | Pier 32 | | | | | | | | | | | | | | | | | | | | | | | | |
| Sample Location | | Upcurrent (Ambient) | | | | | | | | | | | Downcurrent | | | | | | | | | | | | | |
| Distance to Source | | Approx. 500 - 1000 ft ¹ | | | | | | | | | | | 500 ft ² | | | | | | | | | | | | | |
| Sample ID | | 012014-P032-F-U | | | | | | | | | | | 012014-P032-F-D | | | | | | | | | | | | | |
| Sample Time | | 10:45 | | | | | | | | | | | 11:13 | | | | | | | | | | | | | |
| Parameter | | Total Suspended Solids | Mercury | Nickel | Copper | Lead | Zinc | PCB | | | | Naphthalene | Benzo(a)pyrene | Total Suspended Solids | Mercury | Nickel | Copper | Lead | Zinc | PCB | | | | Naphthalene | Benzo(a)pyrene | |
| | | | | | | | | Aroclor 1242 | Aroclor 1248 | Aroclor 1254 | Aroclor 1260 | | | | | | | | | Aroclor 1242 | Aroclor 1248 | Aroclor 1254 | Aroclor 1260 | | | |
| Unit | | (ppm) | (ppb) | | | | | | | | | | | (ppm) | (ppb) | | | | | | | | | | | |
| Detection Limit ³ | | Ambient + 100 | 0.05 | - | - | - | - | 0.2 | 0.2 | 0.2 | 0.2 | - | 0.1 | Ambient + 100 | 0.05 | - | - | - | - | 0.2 | 0.2 | 0.2 | 0.2 | - | 0.1 | |
| Water Quality Standard ³ | | * | 0.0007 | 8.2 | 5.6 | 8.0 | 66 | - | - | - | - | 16 | 0.0006 | * | 0.0007 | 8.2 | 5.6 | 8.0 | 66 | - | - | - | - | 16 | 0.0006 | |
| Analytical Result ⁴ | | S | 63.2 | ND | ND | ND | ND | 15 | ND | ND | ND | ND | ND | ND | 67.6 | ND | ND | ND | ND | 13 | ND | ND | ND | ND | ND | |
| | | M | 75.2 | ND | ND | ND | ND | 13 | ND | ND | ND | ND | ND | ND | ND | 71.6 | ND | ND | ND | ND | 10 | ND | ND | ND | ND | ND |
| | | B | 80.0 | ND | ND | ND | ND | 13 | ND | ND | ND | ND | ND | ND | ND | 82.4 | ND | ND | ND | ND | 13 | ND | ND | ND | ND | ND |

Notes:

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