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<th>Nickel</th>
<th>Copper</th>
<th>Lead</th>
<th>Zinc</th>
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<th>Aroclor 1248</th>
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<th>Benzo(a)pyrene</th>
<th>PCB</th>
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<td>Downcurrent</td>
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<td>2.6 ppm</td>
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<th>Copper</th>
<th>Lead</th>
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<tr>
<th>Sample Location</th>
<th>Upcurrent (Ambient)</th>
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<tr>
<td>Distance to Source</td>
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<th>Copper</th>
<th>Lead</th>
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<th>Anchor 1248</th>
<th>Anchor 1254</th>
<th>Anchor 1260</th>
<th>Naphthalene</th>
<th>Benzo(a)pyrene</th>
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### Survey Details
- **Survey Date**: 10/02/2018
- **Survey Type**: V - Vessel Based
- **Construction Activity**: DBRI - Debris Removal
- **Source Location**: B167
- **Sample Time**: 09:13 09:00
- **Tide**: Ebb

### Sample Information
- **Sample Location**: Upcurrent (Ambient)
- **Distance to Source**: Approx. 500 - 1000 ft
- **Sample ID**: 100218-DBRI-E-U
- **Sample Time**: 09:13
- **Sample Location**: Downcurrent
- **Distance to Source**: 500 ft
- **Sample ID**: 100218-DBRI-E-D
- **Sample Time**: 09:00

### Analytical Results

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<tr>
<th>Parameter</th>
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<th>Nickel</th>
<th>Copper</th>
<th>Lead</th>
<th>Zinc</th>
<th>PCB</th>
<th>PCB</th>
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<td>Lead</td>
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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.
4. S = Near Surface, M = Mid-Depth, B = Near Bottom.
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   ND = Not Detected
   NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.
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Notes:

1. Samples collected at a location upcurrent 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
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<th>Lead</th>
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<th>Aroclor 1248</th>
<th>Aroclor 1254</th>
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<th>Naphthalene</th>
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**Notes:**
1. Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible.
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Notes:
1. Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
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| Analytical Result | S | NS | M | 22 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
|-------------------|---|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|
|                   | B | NS | NS |    |    |    |    |    |    |    |    |    |    |    |    |

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<table>
<thead>
<tr>
<th>Parameter</th>
<th>Total Suspended Solids</th>
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<th>Nickel</th>
<th>Copper</th>
<th>Lead</th>
<th>Zinc</th>
<th>PCB</th>
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<th>Aroclor 1254</th>
<th>Aroclor 1260</th>
<th>Naphthalene</th>
<th>Benzo(a)pyrene</th>
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<th>Nickel</th>
<th>Copper</th>
<th>Lead</th>
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<th>Downcurrent</th>
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<th>Copper</th>
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### Table: Water Quality Sampling Results

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<th>Parameter</th>
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<th>Detection Limit</th>
<th>Water Quality Standard</th>
<th>Analytical Result</th>
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<th>Mercury</th>
<th>Nickel</th>
<th>Copper</th>
<th>Lead</th>
<th>Zinc</th>
<th>PCB</th>
<th>Naphthalene</th>
<th>Benzo(a)pyrene</th>
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## Survey Date
10/09/2018

## Survey Type
V - Vessel Based

## Construction Activity
SIDI - Silt Displacement

## Tide
Flood

## Source Location
B172

### Sample Location
<table>
<thead>
<tr>
<th>Sample Location</th>
<th>Upcurrent (Ambient)</th>
<th>Downcurrent</th>
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<tbody>
<tr>
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### Parameter
- **Total Suspended Solids**
- **Mercury**
- **Nickel**
- **Copper**
- **Lead**
- **Zinc**
- **PCB**
- **Naphthalene**
- **Benzo(a)pyrene**

#### Unit (ppm)

### Detection Limit$^3$

#### Water Quality Standards$^3$

### Analytical Result

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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
4. S = Near Surface, M = Mid-Depth, B = Near Bottom
5. Upcurrent (ambient) concentration exceeds the Water Quality Standard, Downcurrent concentration is less than 30% over background.
6. Reported value exceeds the Water Quality Standard as stated in Condition 61 of 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
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Notes:
1. Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
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3. Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
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   - None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
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   - NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.
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**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
4. S = Near Surface, M = Mid-Depth, B = Near Bottom
   - 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
### Survey Details

**Survey Date:** 10/10/2018  
**Survey Type:** V - Vessel Based  
**Construction Activity:** DBRI - Debris Removal  
**Comments:**  
**Tide:** Flood  
**Source Location:** B181

### Sample Details

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<tr>
<th>Sample Location</th>
<th>Upcurrent (Ambient)</th>
<th>Downcurrent</th>
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<tbody>
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<td><strong>Distance to Source</strong></td>
<td>Approx. 500 - 1000 ft&lt;sup&gt;1&lt;/sup&gt;</td>
<td>500 ft&lt;sup&gt;2&lt;/sup&gt;</td>
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### Parameter Detection

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</table>
1. Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible  
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4. No detection limit or water quality standard  
5. Reported value exceeds the Water Quality Standard as stated in Condition 61 of NYSDEC Permit Facility ID 3-9903-00043/00012-14  

Water Quality Standards:

- **Detection Limit**: 0.0007 ppm (ppb)  
- **Water Quality Standard**: 66 ppm (ppb)  
- **Analytical Result**: S 29.3 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS

**Sample ID**: 101018-DBRI-F-U  
**Source Location**: B181

---

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**Analytical Result**:  
- **S**: 29.3 ppm (ppb)  
- **M**: NS  
- **B**: 52.3 ppm (ppb)

---

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**Analytical Result**:  
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**Analytical Result**:  
- **S**: 29.3 ppm (ppb)  
- **M**: NS  
- **B**: 52.3 ppm (ppb)
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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
4. S = Near Surface, M = Mid-Depth, B = Near Bottom
   - 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
### Survey Details
- **Survey Date**: 10/11/2018
- **Survey Type**: V - Vessel Based
- **Construction Activity**: TIPC - Timber Pile Cap Foundation Removal
- **Comments**: 
- **Tide**: Flood
- **Source Location**: B95

### Sample Details
- **Sample Location**: Upcurrent (Ambient) & Downcurrent
- **Distance to Source**: Approx. 500 - 1000 ft
- **Sample ID**: 101118-TIPC-F-U & 101118-TIPC-F-D
- **Sample Time**: 13:20 & 13:04

### Analytical Results

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### 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
4. No detection limit or water quality standard
5. Reported value exceeds the Water Quality Standard as stated in Condition 61 of NYSDEC Permit Facility ID 3-9903-00043/00012-14
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   - None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
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   - NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.
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Notes:
1. Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
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3. Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
4. S = Near Surface, M = Mid-Depth, B = Near Bottom
   -- No detection limit or water quality standard
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   ND = Not Detected
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4. S = Near Surface, M = Mid-Depth, B = Near Bottom
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-- 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
### Survey Date
10/16/2018

### Survey Type
V - Vessel Based

### Construction Activity
TIPC - Timber Pile Cap Foundation Removal

### Comments

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### Unit

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### Water Quality Standard

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### Analytical Result

<table>
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<tr>
<th>S</th>
<th>NS</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>ND</td>
</tr>
<tr>
<td>B</td>
<td>ND</td>
</tr>
</tbody>
</table>

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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.
4. S = Near Surface, M = Mid-Depth, B = Near Bottom.
   -- 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.
<table>
<thead>
<tr>
<th>Sample Location</th>
<th>Upcurrent ( Ambient )</th>
<th>Downcurrent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distance to Source</td>
<td>Approx. 500 - 1000 ft¹</td>
<td>500 ft²</td>
</tr>
<tr>
<td>Sample ID</td>
<td>101618-SIDI-E-U</td>
<td>101618-DBRI-E-D</td>
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<tr>
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<td>11:29</td>
</tr>
<tr>
<td>Parameter</td>
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</tr>
<tr>
<td>Unit</td>
<td>(ppm)</td>
<td>(ppb)</td>
</tr>
<tr>
<td>Detection Limit²</td>
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<tr>
<td>Water Quality Standard²</td>
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</table>

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
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   -- 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

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

- **Survey Date:** 10/17/2018
- **Survey Type:** V - Vessel Based
- **Construction Activity:** TIPC - Timber Pile Cap
  Foundation Removal
- **Comments:**
- **Tide:** Ebb
- **Source Location:** B40

### Sample Location

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Total Suspended Solids</th>
<th>Mercury</th>
<th>Nickel</th>
<th>Copper</th>
<th>Lead</th>
<th>Zinc</th>
<th>PCB 1242</th>
<th>PCB 1248</th>
<th>PCB 1254</th>
<th>PCB 1260</th>
<th>Naphthalene</th>
<th>Benz(a)pyrene</th>
<th>Total Suspended Solids</th>
<th>Mercury</th>
<th>Nickel</th>
<th>Copper</th>
<th>Lead</th>
<th>Zinc</th>
<th>PCB 1242</th>
<th>PCB 1248</th>
<th>PCB 1254</th>
<th>PCB 1260</th>
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<th>Benz(a)pyrene</th>
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<tbody>
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</table>

### Units

- **Unit:** (ppm) for Total Suspended Solids (ppm), (ppb) for other parameters

### Detection Limit

- **Ambient +:** 0.0007 (ppb)

### Water Quality Standard

- **S:** 0.0007 (ppb), **M:** 8.2 (ppb), **B:** 5.6 (ppb), **ND:** Not Detected

### Analytical Result

- **S:** NS, **M:** 19.8, **B:** NS

### 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
4. S = Near Surface, M = Mid-Depth, B = Near Bottom
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<thead>
<tr>
<th>Sample Location</th>
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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
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<thead>
<tr>
<th>Parameter</th>
<th>Total Suspended Solids</th>
<th>Mercury</th>
<th>Nickel</th>
<th>Copper</th>
<th>Lead</th>
<th>Zinc</th>
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<th>PCB Aroclor 1254</th>
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</table>

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 as close to the edge of the 500 ft mixing zone as practicable, to remain no closer than 500' from other simultaneously occurring activity - Silt Displacement
3. Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
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<table>
<thead>
<tr>
<th>Sample Location</th>
<th>Upcurrent (Ambient)</th>
<th>Downcurrent</th>
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<tbody>
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<td>Distance to Source</td>
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<td>500 ft (^2)</td>
</tr>
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Notes:
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<th>Copper</th>
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Notes:

1. Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
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<thead>
<tr>
<th>Parameter</th>
<th>Total Suspended Solids</th>
<th>Mercury</th>
<th>Nickel</th>
<th>Copper</th>
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<th>Aroclor 1242</th>
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Notes:

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

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

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5. No detection limit or water quality standard.
6. None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages.
7. ND = Not Detected.
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<thead>
<tr>
<th>Parameter</th>
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<th>Downcurrent</th>
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<td>PCB</td>
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</tr>
<tr>
<td>Nickel</td>
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</tr>
</tbody>
</table>

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   -- 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.
| Parameter          | Unit (ppm) | (ppb) | Detection Limit* | Ambient + | 100 | 0.07 | 3.7 | 2.6 | 1.8 | 5.6 | 0.2 | 0.2 | 0.2 | -- | 0.1 | 0.07 | 3.7 | 2.6 | 1.8 | 5.6 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 |
|-------------------|------------|-------|------------------|-----------|-----|------|-----|-----|-----|-----|-----|-----|-----|----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Total Suspended   |            |       |                  |           |     |      |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |
| Solids            |            |       |                  |           |     |      |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |
| Mercury           |            |       |                  |           |     |      |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |
| Nickel            |            |       |                  |           |     |      |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |
| Copper            |            |       |                  |           |     |      |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |
| Lead              |            |       |                  |           |     |      |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |
| Zinc              |            |       |                  |           |     |      |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |
| PCB               |            |       |                  |           |     |      |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |
| Anchor 1242       |            |       |                  |           |     |      |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |
| Anchor 1248       |            |       |                  |           |     |      |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |
| Anchor 1254       |            |       |                  |           |     |      |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |
| Anchor 1260       |            |       |                  |           |     |      |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |
| Naphthalene       |            |       |                  |           |     |      |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |
| Benz(a)pyrene     |            |       |                  |           |     |      |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |
| Sample Time       |            |       |                  |           |     |      |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |
| 12:06             |            |       |                  |           |     |      |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |
| 11:42             |            |       |                  |           |     |      |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |
| Water Quality     |            |       |                  |           |     |      |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |
| Standard**        |            |       |                  |           |     |      |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |
| 0.0007            |            |       |                  |           |     |      |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |
| 8.2               |            |       |                  |           |     |      |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |
| 5.6               |            |       |                  |           |     |      |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |
| 8.0               |            |       |                  |           |     |      |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |
| 66                |            |       |                  |           |     |      |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |
| 16                |            |       |                  |           |     |      |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |
| 0.0006            |            |       |                  |           |     |      |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |
| Analytical Result |            |       |                  |           |     |      |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |
| S                 | 12.3       | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    |
| M                 | 14.8       | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    |
| B                 | 29.3       | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    |

Notes:
1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
2 Samples collected as close to the edge of the 500 ft mixing zone as practicable to remain no closer than 500' from other simultaneously occurring activity - Silt Displacement
3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
4 S = Near Surface, M = Mid-Depth, B = Near Bottom
-- 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
<table>
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<th>Nickel</th>
<th>Copper</th>
<th>Lead</th>
<th>Zinc</th>
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<th>Aroclor 1248</th>
<th>Aroclor 1254</th>
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<th>Naphthalene</th>
<th>Benzo(a)pyrene</th>
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<table>
<thead>
<tr>
<th>Sample Location</th>
<th>Upcurrent (Ambient)</th>
<th>Downcurrent</th>
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<table>
<thead>
<tr>
<th>Sample Location</th>
<th>Upcurrent (Ambient)</th>
<th>Downcurrent</th>
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<th>Copper</th>
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### Sample Location

<table>
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<tr>
<th>Parameter</th>
<th>Total Suspended Solids</th>
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### Water Quality Standard

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### Analytical Result

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### Survey Details

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### Sample Details

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### Water Quality Standards

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### Analytical Results

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**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
4. S = Near Surface, M = Mid-Depth, B = Near Bottom
   - 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
| Parameter | Total Suspended Solids | Mercury | Nickel | Copper | Lead | Zinc | PCB
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   - ND = Not Detected
### Environmental Monitoring Report

**Survey Date:** 10/24/2018  
**Survey Type:** V - Vessel Based  
**Construction Activity:** TIPC - Timber Pile Cap Foundation Removal  
**Comments:**  
**Tide:** Flood  
**Source Location:** BB0

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   - ND = Not Detected
   - NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.
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<td>3.7</td>
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<td>5.6</td>
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| Analytical Result | S     | 18.8  | 0.2   | ND    | ND    | ND    | ND    | ND    |
|                  | M     | 52    | 0.2   | ND    | ND    | ND    | ND    | ND    |
|                  | B     | 97    | 0.3   | 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.
4. S = Near Surface, M = Mid-Depth, B = Near Bottom.
5. Upcurrent (ambient) concentration exceeds the Water Quality Standard, Downcurrent concentration is less than 30% over background.
   - 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
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### Parameter Results

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<th>Copper</th>
<th>Lead</th>
<th>Zinc</th>
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<th>Copper</th>
<th>Lead</th>
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### 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
4. S = Near Surface, M = Mid-Depth, B = Near Bottom
5. Upcurrent (ambient) concentration exceeds the Water Quality Standard, Downcurrent concentration is less than 30% over background.

---

**Survey Date:** 10/25/2018  
**Survey Type:** V - Vessel Based  
**Construction Activity:** TIPC - Timber Pile Cap Foundation Removal  
**Comments:**  
**Tide:** Flood  
**Source Location:** B95
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Notes:
1. Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
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3. Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
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   * No detection limit or water quality standard
   * ND = Not Detected
   * None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
<table>
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<tr>
<th>Sample Location</th>
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<td>3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14</td>
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<td>4 S = Near Surface, M = Mid-Depth, B = Near Bottom</td>
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<td>* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages</td>
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<td>ND = Not Detected</td>
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1. Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
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ND = Not Detected
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Total Suspended Solids</th>
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<th>Copper</th>
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<th>Zinc</th>
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<tr>
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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.
<table>
<thead>
<tr>
<th>Sample Location</th>
<th>Upcurrent (Ambient)</th>
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<td>Source Location</td>
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<tr>
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<td>103018-SIDI-E-D</td>
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<td>Units (ppm)</td>
<td>(ppm)</td>
<td>(ppm)</td>
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<td>Parameter</td>
<td>Total Suspended Solids</td>
<td>Mercury</td>
</tr>
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<td>Analytical Result$^4$</td>
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<td>M 18</td>
<td>ND</td>
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<td></td>
<td>B 28.3</td>
<td>ND</td>
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</table>

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ND = Not Detected
**Survey Date**: 10/30/2018  
**Survey Type**: V - Vessel Based  
**Construction Activity**: DBRI - Debris Removal  
**Comments**:  
**Tide**: Ebb  
**Source Location**: B175  

<table>
<thead>
<tr>
<th>Sample Location</th>
<th>Upcurrent (Ambient)</th>
<th>Downcurrent</th>
<th>Upcurrent (Ambient)</th>
<th>Downcurrent</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Parameter</strong></td>
<td>Total Suspended Solids</td>
<td>Mercury</td>
<td>Nickel</td>
<td>Copper</td>
</tr>
<tr>
<td><strong>Unit</strong></td>
<td>(ppm)</td>
<td>(ppb)</td>
<td>(ppm)</td>
<td>(ppb)</td>
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<tr>
<td><strong>Detection Limit</strong></td>
<td>+ 100</td>
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<td>2.6</td>
</tr>
<tr>
<td><strong>Water Quality Standard</strong></td>
<td>* 0.0007</td>
<td>8.2</td>
<td>5.6</td>
<td>8.0</td>
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<td>S 14</td>
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<td>B 93</td>
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</tbody>
</table>

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   ND = Not Detected
### Water Quality Data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Total Suspended Solids</th>
<th>Mercury</th>
<th>Nickel</th>
<th>Copper</th>
<th>Lead</th>
<th>Zinc</th>
<th>Aroclor 1242</th>
<th>Aroclor 1248</th>
<th>Aroclor 1254</th>
<th>Aroclor 1260</th>
<th>Naphthalene</th>
<th>Benzo(a)pyrene</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upcurrent (Ambient)</td>
<td>0.07 ppm</td>
<td>3.7 ppm</td>
<td>2.6 ppm</td>
<td>1.8 ppm</td>
<td>5.6 ppm</td>
<td>0.2 ppm</td>
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<td>0.2 ppm</td>
<td>-- ppm</td>
<td>0.1 ppm</td>
<td>-- ppm</td>
<td>-- ppm</td>
</tr>
<tr>
<td>Downcurrent</td>
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<td>3.7 ppm</td>
<td>2.6 ppm</td>
<td>1.8 ppm</td>
<td>5.6 ppm</td>
<td>0.2 ppm</td>
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<td>0.2 ppm</td>
<td>-- ppm</td>
<td>0.1 ppm</td>
<td>-- ppm</td>
<td>-- ppm</td>
</tr>
</tbody>
</table>

### Unit

- **Total Suspended Solids (ppm)**
- **Mercury (ppb)**
- **Nickel (ppb)**
- **Copper (ppb)**
- **Lead (ppb)**
- **Zinc (ppb)**
- **Aroclor 1242 (ppb)**
- **Aroclor 1248 (ppb)**
- **Aroclor 1254 (ppb)**
- **Aroclor 1260 (ppb)**
- **Naphthalene (ppb)**
- **Benzo(a)pyrene (ppb)**

### Detection Limit

- Ambient: 0.0007 ppm

### Water Quality Standard

- 0.0006 ppm

### Analytical Result

<table>
<thead>
<tr>
<th>Location</th>
<th>S</th>
<th>ND</th>
<th>ND</th>
<th>ND</th>
<th>ND</th>
<th>ND</th>
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<td>ND</td>
<td>ND</td>
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</tbody>
</table>

**Notes:**

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<table>
<thead>
<tr>
<th>Sample Location</th>
<th>Upcurrent (Ambient)</th>
<th>Downcurrent</th>
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</thead>
<tbody>
<tr>
<td>Distance to Source</td>
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<td>500 ft (^2)</td>
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<table>
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<th>Mercury</th>
<th>Nickel</th>
<th>Copper</th>
<th>Lead</th>
<th>Zinc</th>
<th>Aroclor 1242</th>
<th>Aroclor 1248</th>
<th>Aroclor 1254</th>
<th>Aroclor 1260</th>
<th>Naphthalene</th>
<th>Benz(a)pyrene</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient (^+)</td>
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<td>3.7</td>
<td>2.6</td>
<td>1.8</td>
<td>5.6</td>
<td>0.2</td>
<td>0.2</td>
<td>0.2</td>
<td>--</td>
<td>0.1</td>
<td>0.0007</td>
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<td></td>
</tr>
</tbody>
</table>

| Detection Limit | Ambient \(^+\) | 0.07 | 3.7 | 2.6 | 1.8 | 5.6 | 0.2 | 0.2 | 0.2 | -- | 0.1 |
| Water Quality Standard | * | 0.0007 | 8.2 | 5.6 | 8.0 | 66 | -- | -- | -- | 16 | 0.0006 |

| Analytical Result | S | 11.8 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | M | 12.3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | B | 37.3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

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<td>5.6</td>
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<td>0.2</td>
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<tr>
<td>Arroclor 1254</td>
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<th>Parameter</th>
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