MERCURY CONCENTRATIONS IN SURFACE WATERS OF BERRY’S CREEK

COLLECTED BY

THE HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION
ENVIRONMENTAL OPERATIONS LABORATORY

MARCH 1987 THROUGH JANUARY 1988

Edward Konsevick, Supervisor
Laboratory Operations and Research
PHYSICAL PARAMETERS OF WATER OBSERVED AT LOCATIONS ON BERRY'S CREEK DURING ROUTINE MONITORING COLLECTED NOVEMBER 1987 TO JANUARY 1988

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<th>COND (uMHOS)</th>
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<th>TSS (mg/l)</th>
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| 25-Mar | HIGH 10.0 | 5.4 | 6.0 | 7000 | 11.6 | 20.6 |
| | LOW 17.0 | 5.8 | 3.8 | 5500 | 6.5 | 29.1 |
| 27-May | HIGH 17.5 | 6.8 | 3.5 | 5000 | 5.8 | 1.4 |
| | LOW 17.0 | 5.7 | 2.5 | 3700 | 6.4 | 33.5 |
| 17-Jul | HIGH 25.0 | 7.0 | 6.0 | 9100 | 12.8 |
| | LOW 23.0 | 7.0 | 3.0 | 4400 | 8.2 | 94.1 |
| 30-Sep | HIGH 21.1 | 7.8 | 4.5 | 7000 | 1.8 | 48.5 |
| | LOW 19.6 | 7.0 | 2.5 | 4400 | 6.4 | 50.4 |
| 23-Nov | HIGH 6.0 | 5.8 | 8.0 | 5000 | 4.3 | 40.3 |
| | LOW 3.9 | 6.8 | 2.0 | 2600 | 4.0 | 82.8 |
| 28-Jan | HIGH 0.5 | 6.8 | 2.5 | 2400 | 6.2 | 5.5 |
| | LOW 0.6 | 6.7 | 1.0 | 1200 | 7.8 | 5.9 |
PHYSICAL PARAMETERS OF WATER OBSERVED AT LOCATIONS ON BERRY'S CREEK DURING ROUTINE MONITORING COLLECTED NOVEMBER 1987 TO JANUARY 1988

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STATION 4: BERRY'S CREEK AT TOLL PLAZA

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PHYSICAL PARAMETERS OF WATER OBSERVED AT LOCATIONS ON BERRY'S CREEK DURING ROUTINE MONITORING COLLECTED NOVEMBER 1987 TO JANUARY 1988

PAGE 3 OF 3

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| STATION 2: UPPER BERRY'S CREEK |           |    |           |              |             |            |
| HIGH TIDE AVERAGE | 13.4       | 6.5 | 5.1       | 5916.7       | 7.1         | 23.3       |
| LOW TIDE AVERAGE | 13.5       | 6.5 | 2.5       | 3633.3       | 6.6         | 49.3       |

| STATION 3: LOWER BERRY'S CREEK |           |    |           |              |             |            |
| HIGH TIDE AVERAGE | 14.6       | 6.2 | 8.2       | 9533.3       | 5.5         | 25.2       |
| LOW TIDE AVERAGE | 12.9       | 6.3 | 4.8       | 5950.0       | 5.0         | 54.8       |

| STATION 4: BERRY'S CREEK AT TOLL PLAZA |           |    |           |              |             |            |
| HIGH TIDE AVERAGE | 14.8       | 7.0 | 10.5      | 11116.7      | 5.6         | 26.9       |
| LOW TIDE AVERAGE | 14.0       | 6.5 | 6.1       | 8000.0       | 4.5         | 71.8       |
### MERCURY CONCENTRATIONS IN SURFACE WATERS OF BERRY’S CREEK

**COLLECTED MARCH 25, 1987**

Analyses performed by Garden State Labs, State Certification #07044

**ALL CONCENTRATIONS IN MG/L**

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### TOTAL MERCURY

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MERCURY CONCENTRATIONS IN SURFACE WATERS OF BERRY'S CREEK

COLLECTED MAY 27, 1987

Analyses performed by Garden State Labs,
State Certification #07044

ALL CONCENTRATIONS IN MG/L

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TOTAL MERCURY

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# Mercury Concentrations in Surface Waters of Berry's Creek

**Collected July 17, 1987**

Analyses performed by Garden State Labs, State Certification #07044

All concentrations in mg/l

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### Total Mercury

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### Dissolved Mercury

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MERCURY CONCENTRATIONS IN SURFACE WATERS OF BERRY'S CREEK

COLLECTED SEPTEMBER 30, 1987

Analyses performed by Garden State Labs,
State Certification #07044

ALL CONCENTRATIONS IN MG/L

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TOTAL MERCURY

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DISSOLVED MERCURY

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MERCURY CONCENTRATIONS IN SURFACE WATERS OF BERRY'S CREEK
COLLECTED NOVEMBER 23, 1987
Analyses performed by Garden State Labs,
State Certification #07044
ALL CONCENTRATIONS IN MG/L

TOTAL MERCURY

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<td>LOWER BERRY'S CREEK</td>
<td>0.001</td>
<td>0.005</td>
</tr>
<tr>
<td>BERRY'S CREEK AT TOLL PLAZA</td>
<td>0.002</td>
<td>0.003</td>
</tr>
</tbody>
</table>

DISSOLVED MERCURY

<table>
<thead>
<tr>
<th>STATION</th>
<th>HIGH TIDE</th>
<th>LOW TIDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEST RISER TIDE GATE</td>
<td>&lt;0.001</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>UPPER BERRY'S CREEK</td>
<td>0.001</td>
<td>0.001</td>
</tr>
<tr>
<td>LOWER BERRY'S CREEK</td>
<td>&lt;0.001</td>
<td>0.001</td>
</tr>
<tr>
<td>BERRY'S CREEK AT TOLL PLAZA</td>
<td>0.002</td>
<td>0.001</td>
</tr>
</tbody>
</table>
MERCURY CONCENTRATIONS IN SURFACE WATERS OF BERRY'S CREEK

COLLECTED JANUARY 27, 1988

Analyses performed by HMDC Labs,
State Certification #02437

ALL CONCENTRATIONS IN MG/L

**********************************

<table>
<thead>
<tr>
<th>STATION</th>
<th>HIGH TIDE</th>
<th>LOW TIDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEST RISER TIDE GATE</td>
<td>0.0016</td>
<td>0.0018</td>
</tr>
<tr>
<td>UPPER BERRY'S CREEK</td>
<td>0.0002</td>
<td>0.0014</td>
</tr>
<tr>
<td>LOWER BERRY'S CREEK</td>
<td>0.0002</td>
<td>0.0021</td>
</tr>
<tr>
<td>BERRY'S CREEK AT TOLL PLAZA</td>
<td>0.0019</td>
<td>0.0014</td>
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</table>

<table>
<thead>
<tr>
<th>STATION</th>
<th>HIGH TIDE</th>
<th>LOW TIDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEST RISER TIDE GATE</td>
<td>0.0013</td>
<td>0.0017</td>
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<tr>
<td>UPPER BERRY'S CREEK</td>
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<td>0.0009</td>
</tr>
<tr>
<td>LOWER BERRY'S CREEK</td>
<td>0.0002</td>
<td>0.0026</td>
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<tr>
<td>BERRY'S CREEK AT TOLL PLAZA</td>
<td>0.0012</td>
<td>0.0006</td>
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<tr>
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<td>MARCH</td>
<td>MAY</td>
</tr>
<tr>
<td>------------------</td>
<td>-------</td>
<td>------</td>
</tr>
<tr>
<td><strong>TOTAL MERCURY</strong></td>
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<td></td>
</tr>
<tr>
<td>West Riser Tide Gate</td>
<td>0.002</td>
<td>0.001</td>
</tr>
<tr>
<td>Upper Berry's</td>
<td>0.003</td>
<td>0.002</td>
</tr>
<tr>
<td>Lower Berry's</td>
<td>0.001</td>
<td>0.001</td>
</tr>
<tr>
<td>Berry's AT TOLL Plaza</td>
<td>0.001</td>
<td>0.002</td>
</tr>
</tbody>
</table>

| **DISSOLVED MERCURY** |       |      |      |       |        |           |         |          |          |       |       |       |
| West Riser Tide Gate | 0.001 | 0.001| 0.001| 0.001 | 0.001  | 0.001     | 0.001  | 0.001    | 0.001    | 0.001 | 0.001 | 0.001 |
| Upper Berry's       | 0.001 | 0.001| 0.001| 0.005 | 0.001  | 0.001     | 0.001  | 0.002    | 0.001    | 0.005 | 0.001 | 0.005 |
| Lower Berry's       | 0.001 | 0.001| 0.001| 0.001 | 0.001  | 0.001     | 0.001  | 0.001    | 0.001    | 0.001 | 0.001 | 0.001 |
| Berry's AT TOLL Plaza | 0.001 | 0.002| 0.001| 0.002 | 0.001  | 0.001     | 0.001  | 0.001    | 0.001    | 0.002 | 0.001 | 0.002 |

| **LOW TIDE**        |       |      |      |       |        |           |         |          |          |       |       |       |
| West Riser Tide Gate | 0.001 | 0.001| 0.001| 0.001 | 0.002  | 0.001     | 0.001  | 0.001    | 0.001    | 0.002 | 0.001 | 0.002 |
| Upper Berry's       | 0.002 | 0.002| 0.004| 0.024 | 0.008  | 0.001     | 0.007  | 0.001    | 0.024    | 0.004 | 0.024 | 0.024 |
| Lower Berry's       | 0.004 | 0.005| 0.001| 0.114 | 0.005  | 0.002     | 0.022  | 0.001    | 0.114    | 0.004 | 0.114 | 0.114 |
| Berry's AT TOLL Plaza | 0.004 | 0.007| 0.001| 0.023 | 0.003  | 0.001     | 0.003  | 0.001    | 0.007    | 0.004 | 0.007 | 0.007 |

| **DISSOLVED MERCURY** |       |      |      |       |        |           |         |          |          |       |       |       |
| West Riser Tide Gate | 0.001 | 0.001| 0.001| 0.001 | 0.002  | 0.001     | 0.001  | 0.001    | 0.001    | 0.002 | 0.001 | 0.002 |
| Upper Berry's       | 0.001 | 0.001| 0.001| 0.002 | 0.002  | 0.001     | 0.001  | 0.001    | 0.002    | 0.002 | 0.001 | 0.002 |
| Lower Berry's       | 0.002 | 0.003| 0.001| <0.027| 0.001  | 0.003     | 0.006  | 0.001    | 0.027    | 0.002 | 0.001 | 0.027 |
| Berry's AT TOLL Plaza | 0.001 | 0.003| 0.001| 0.001 | 0.001  | 0.001     | 0.001  | 0.001    | 0.003    | 0.001 | 0.001 | 0.003 |