

**Mill Creek Upstream of Halburton Road**  
**6/29/2011**  
**River Mile: 11.85**  
**Collection Method: Longline Electroshocking**  
**Drainage Area: 0.7 miles<sup>2</sup>**  
**Collection Distance: 0.15 km**

| <u>Species</u>                       | <u>Number</u> | <u>Pollution Tolerance</u> | <u>#</u> | <u>DELT Anomalies Description</u> |
|--------------------------------------|---------------|----------------------------|----------|-----------------------------------|
| <i>Carassius auratus</i><br>Goldfish | 2             | Highly Tolerant            | 0        | --                                |
| <hr/>                                |               |                            |          |                                   |
| Totals                               | <u>2</u>      |                            | <u>0</u> |                                   |

\*DELT anomalies were observed on 0.0 of the fish collected.  
 Index of Biotic Integrity (IBI) = 12 (Very Poor)

**Mill Creek Upstream Section of Highland Park Golf Course**

**6/29/2011**

**River Mile: 11.52**

**Collection Method: Longline Electroshocking**

**Drainage Area: 1.3 miles<sup>2</sup>**

**Collection Distance: 0.15 km**

| <u>Species</u>                               | <u>Number</u> | <u>Pollution Tolerance</u> | <u>DELT Anomalies #</u> | <u>Description</u> |
|--|---------------|----------------------------|-------------------------|--------------------|
| <i>Carassius auratus</i><br>Goldfish         | 1             | Highly Tolerant            | 0                       | --                 |
| <i>Semotilus atromaculatus</i><br>Creek chub | 4             | Highly Tolerant            | 0                       | --                 |
| Totals                                       | <u>5</u>      |                            | <u>0</u>                |                    |

\*DELT anomalies were observed on 0.0 of the fish collected.  
 Index of Biotic Integrity (IBI) = 12 (Very Poor)

**Mill Creek Upstream Section of Highland Park Golf Course**

**8/17/2011**

**River Mile: 11.52**

**Collection Method: Longline Electroshocking**

**Drainage Area: 1.3 miles<sup>2</sup>**

**Collection Distance: 0.15 km**

| <u>Species</u>                               | <u>Number</u> | <u>Pollution Tolerance</u> | <u>DELT Anomalies #</u> | <u>Description</u> |
|--|---------------|----------------------------|-------------------------|--------------------|
| <i>Carassius auratus</i><br>Goldfish         | 19            | Highly Tolerant            | 0                       | --                 |
| <i>Semotilus atromaculatus</i><br>Creek chub | 10            | Highly Tolerant            | 0                       | --                 |
| Totals                                       | <u>29</u>     |                            | <u>0</u>                |                    |

\*DELT anomalies were observed on 0.0 of the fish collected.  
 Index of Biotic Integrity (IBI) = 18 (Poor)

**Mill Creek Downstream Section of Highland Park Golf Course**

**6/29/2011**

**River Mile: 10.70**

**Collection Method: Longline Electroshocking**

**Drainage Area: 1.8 miles<sup>2</sup>**

**Collection Distance: 0.15 km**

| <u>Species</u>   | <u>Number</u> | <u>Pollution Tolerance</u> | <u>DELT #</u> | <u>Anomalies Description</u> |
|--|---------------|----------------------------|---------------|------------------------------|
| <i>Rhinichthys atratulus</i><br>Western blacknose dace | 9             | Highly Tolerant            | 0             | --                           |
| <i>Semotilus atromaculatus</i><br>Creek chub           | 70            | Highly Tolerant            | 0             | --                           |
| Totals   | <u>79</u>     |                            | <u>0</u>      |                              |

\*DELT anomalies were observed on 0.0 of the fish collected.  
 Index of Biotic Integrity (IBI) = 20 (Poor)

**Mill Creek Downstream Section of Highland Park Golf Course**

**8/17/2011**

**River Mile: 10.70**

**Collection Method: Longline Electroshocking**

**Drainage Area: 1.8 miles<sup>2</sup>**

**Collection Distance: 0.15 km**

| <u>Species</u>   | <u>Number</u> | <u>Pollution Tolerance</u> | <u>DELT Anomalies #</u> | <u>Description</u> |
|--|---------------|----------------------------|-------------------------|--------------------|
| <i>Carassius auratus</i><br>Goldfish                   | 36            | Highly Tolerant            | 0                       | --                 |
| <i>Rhinichthys atratulus</i><br>Western blacknose dace | 67            | Highly Tolerant            | 0                       | --                 |
| <i>Semotilus atromaculatus</i><br>Creek chub           | 464           | Highly Tolerant            | 0                       | --                 |
| Totals   | <u>567</u>    |                            | <u>0</u>                |                    |

\*DELT anomalies were observed on 0.0 of the fish collected.  
Index of Biotic Integrity (IBI) = 20 (Poor)

Mill Creek at Northfield Road

6/29/2011

River Mile: 10.13

Collection Method: Longline Electroshocking

Drainage Area: 2.6 miles<sup>2</sup>

Collection Distance: 0.15 km

| <u>Species</u>   | <u>Number</u> | <u>Pollution Tolerance</u> | <u>DELT Anomalies #</u> | <u>Description</u> |
|--|---------------|----------------------------|-------------------------|--------------------|
| <i>Rhinichthys atratulus</i><br>Western blacknose dace | 28            | Highly Tolerant            | 0                       | --                 |
| <i>Semotilus atromaculatus</i><br>Creek chub           | 112           | Highly Tolerant            | 0                       | --                 |
| Totals   | <u>140</u>    |                            | <u>0</u>                |                    |

\*DELT anomalies were observed on 0.0 of the fish collected.  
Index of Biotic Integrity (IBI) = 20 (Poor)

**Mill Creek at Northfield Road**  
**8/12/2011**  
**River Mile: 10.13**  
**Collection Method: Longline Electroshocking**  
**Drainage Area: 2.6 miles<sup>2</sup>**  
**Collection Distance: 0.15 km**

| <u>Species</u>   | <u>Number</u> | <u>Pollution Tolerance</u> | <u>#</u> | <u>DELT Anomalies Description</u> |
|--|---------------|----------------------------|----------|-----------------------------------|
| <i>Carassius auratus</i><br>Goldfish                   | 1             | Highly Tolerant            | 0        | --                                |
| <i>Rhinichthys atratulus</i><br>Western blacknose dace | 25            | Highly Tolerant            | 0        | --                                |
| <i>Semotilus atromaculatus</i><br>Creek chub           | 155           | Highly Tolerant            | 0        | --                                |
| <i>Lepomis cyanellus</i><br>Green sunfish              | 2             | Highly Tolerant            | 0        | --                                |
| Totals   | <u>183</u>    |                            | <u>0</u> |                                   |

\*DELT anomalies were observed on 0.0 of the fish collected.  
 Index of Biotic Integrity (IBI) = 20 (Poor)

**Mill Creek Upstream of South Miles Road**  
**6/28/2011**  
**River Mile: 8.30**  
**Collection Method: Longline Electroshocking**  
**Drainage Area: 3.9 miles<sup>2</sup>**  
**Collection Distance: 0.15 km**

| <u>Species</u>   | <u>Number</u> | <u>Pollution Tolerance</u> | <u>#</u> | <u>DELT Anomalies Description</u> |
|--|---------------|----------------------------|----------|-----------------------------------|
| <i>Rhinichthys atratulus</i><br>Western blacknose dace | 114           | Highly Tolerant            | 0        | --                                |
| <i>Semotilus atromaculatus</i><br>Creek chub           | 63            | Highly Tolerant            | 0        | --                                |
| <i>Pimephales promelas</i><br>Northern fathead minnow  | 1             | Highly Tolerant            | 0        | --                                |
| <i>Lepomis cyanellus</i><br>Green sunfish              | 4             | Highly Tolerant            | 0        | --                                |
| Totals   | <u>182</u>    |                            | <u>0</u> |                                   |

\*DELT anomalies were observed on 0.0 of the fish collected.  
 Index of Biotic Integrity (IBI) = 24 (Poor)



**Mill Creek Upstream of South Miles Road**  
**8/12/2011**  
**River Mile: 8.30**  
**Collection Method: Longline Electroshocking**  
**Drainage Area: 3.9 miles<sup>2</sup>**  
**Collection Distance: 0.15 km**

| <u>Species</u>   | <u>Number</u> | <u>Pollution Tolerance</u> | <u>#</u> | <u>DELTA<br/>Anomalies<br/>Description</u> |
|--|---------------|----------------------------|----------|--|
| <i>Rhinichthys atratulus</i><br>Western blacknose dace | 184           | Highly<br>Tolerant         | 0        | --   |
| <i>Semotilus atromaculatus</i><br>Creek chub           | 237           | Highly<br>Tolerant         | 0        | --   |
| <i>Lepomis cyanellus</i><br>Green sunfish              | 6             | Highly<br>Tolerant         | 0        | --   |
| Totals   | <u>427</u>    |                            | <u>0</u> |  |

\*DELTA anomalies were observed on 0.0 of the fish collected.  
 Index of Biotic Integrity (IBI) = 20 (Poor)

Mill Creek at Rex Avenue

6/27/2011

River Mile: 6.80

Collection Method: Longline Electroshocking

Drainage Area: 4.4 miles<sup>2</sup>

Collection Distance: 0.15 km

| <u>Species</u>   | <u>Number</u> | <u>Pollution Tolerance</u> | <u>DELT Anomalies #</u> | <u>Description</u> |
|--|---------------|----------------------------|-------------------------|--------------------|
| <i>Rhinichthys atratulus</i><br>Western blacknose dace | 319           | Highly Tolerant            | 0                       | --                 |
| <i>Semotilus atromaculatus</i><br>Creek chub           | 343           | Highly Tolerant            | 0                       | --                 |
| Totals   | <u>662</u>    |                            | <u>0</u>                |                    |

\*DELT anomalies were observed on 0.0 of the fish collected.  
 Index of Biotic Integrity (IBI) = 22 (Poor)

Mill Creek at Rex Avenue

8/12/2011

River Mile: 6.80

Collection Method: Longline Electroshocking

Drainage Area: 4.4 miles<sup>2</sup>

Collection Distance: 0.15 km

| <u>Species</u>   | <u>Number</u> | <u>Pollution Tolerance</u> | <u>DELT Anomalies #</u> | <u>Description</u> |
|--|---------------|----------------------------|-------------------------|--------------------|
| <i>Rhinichthys atratulus</i><br>Western blacknose dace | 261           | Highly Tolerant            | 0                       | --                 |
| <i>Semotilus atromaculatus</i><br>Creek chub           | 237           | Highly Tolerant            | 0                       | --                 |
| Totals   | <u>498</u>    |                            | <u>0</u>                |                    |

\*DELT anomalies were observed on 0.0 of the fish collected.  
 Index of Biotic Integrity (IBI) = 22 (Poor)

**Mill Creek at Broadway Avenue**  
**6/27/2011**  
**River Mile: 3.15**  
**Collection Method: Longline Electroshocking**  
**Drainage Area: 14.6 miles<sup>2</sup>**  
**Collection Distance: 0.15 km**

| <u>Species</u>   | <u>Number</u> | <u>Pollution Tolerance</u> | <u>#</u> | <u>DELT Anomalies Description</u> |
|--|---------------|----------------------------|----------|-----------------------------------|
| <i>Notemigonus crysoleucas</i><br>Golden shiner        | 1             | Highly Tolerant            | 0        | --                                |
| <i>Rhinichthys atratulus</i><br>Western blacknose dace | 140           | Highly Tolerant            | 0        | --                                |
| <i>Semotilus atromaculatus</i><br>Creek chub           | 160           | Highly Tolerant            | 0        | --                                |
| <i>Pimephales promelas</i><br>Northern fathead minnow  | 6             | Highly Tolerant            | 0        | --                                |
| Totals   | <u>307</u>    |                            | <u>0</u> |                                   |

\*DELT anomalies were observed on 0.0 of the fish collected.  
 Index of Biotic Integrity (IBI) = 24 (Poor)

**Mill Creek at Broadway Avenue**  
**8/11/2011**  
**River Mile: 3.15**  
**Collection Method: Longline Electroshocking**  
**Drainage Area: 14.6 miles<sup>2</sup>**  
**Collection Distance: 0.15 km**

| <u>Species</u>   | <u>Number</u> | <u>Pollution Tolerance</u> | <u>#</u> | <u>DELTA Anomalies Description</u> |
|--|---------------|----------------------------|----------|------------------------------------|
| <i>Rhinichthys atratulus</i><br>Western blacknose dace | 160           | Highly Tolerant            | 0        | --                                 |
| <i>Semotilus atromaculatus</i><br>Creek chub           | 127           | Highly Tolerant            | 0        | --                                 |
| <i>Pimephales promelas</i><br>Northern fathead minnow  | 2             | Highly Tolerant            | 0        | --                                 |
| Totals   | <u>289</u>    |                            | <u>0</u> |                                    |

\*DELTA anomalies were observed on 0.0 of the fish collected.  
 Index of Biotic Integrity (IBI) = 22 (Poor)

**Mill Creek Downstream of Mill Creek Falls**  
**6/27/2011**  
**River Mile: 2.75**  
**Collection Method: Longline Electroshocking**  
**Drainage Area: 14.6 miles<sup>2</sup>**  
**Collection Distance: 0.15 km**

| <u>Species</u>   | <u>Number</u> | <u>Pollution Tolerance</u> | <u>#</u> | <u>DELT Anomalies Description</u> |
|--|---------------|----------------------------|----------|-----------------------------------|
| <i>Catostomus commersonii</i><br>Common white sucker     | 42            | Highly Tolerant            | 1        | Lesion                            |
| <i>Notemigonus crysoleucas</i><br>Golden shiner          | 1             | Highly Tolerant            | 0        | --                                |
| <i>Rhinichthys atratulus</i><br>Western blacknose dace   | 47            | Highly Tolerant            | 0        | --                                |
| <i>Semotilus atromaculatus</i><br>Creek chub             | 129           | Highly Tolerant            | 0        | --                                |
| <i>Notropis cornutus</i><br>Common shiner                | 1             | --                         | 0        | --                                |
| <i>Pimephales promelas</i><br>Northern fathead minnow    | 4             | Highly Tolerant            | 0        | --                                |
| <i>Pimephales notatus</i><br>Bluntnose minnow            | 1             | Highly Tolerant            | 0        | --                                |
| <i>Campostoma anomalum</i><br>Central stoneroller minnow | 270           | --                         | 1        | Deformity                         |
| Totals   | <u>495</u>    |                            | <u>2</u> |                                   |

\*DELT anomalies were observed on 0.4 of the fish collected.  
 Index of Biotic Integrity (IBI) = 32 (Fair)

**Mill Creek Downstream of Mill Creek Falls**  
**8/11/2011**  
**River Mile: 2.75**  
**Collection Method: Longline Electroshocking**  
**Drainage Area: 14.6 miles<sup>2</sup>**  
**Collection Distance: 0.15 km**

| <u>Species</u>   | <u>Number</u> | <u>Pollution<br/>Tolerance</u> | <u>#</u> | <u>DELT<br/>Anomalies<br/>Description</u> |
|--|---------------|--------------------------------|----------|---|
| <i>Hypentelium nigricans</i><br>Northern hog sucker      | 1             | Moderately<br>Intolerant       | 0        | --  |
| <i>Catostomus commersonii</i><br>Common white sucker     | 16            | Highly<br>Tolerant             | 0        | --  |
| <i>Rhinichthys atratulus</i><br>Western blacknose dace   | 28            | Highly<br>Tolerant             | 0        | --  |
| <i>Semotilus atromaculatus</i><br>Creek chub             | 135           | Highly<br>Tolerant             | 0        | --  |
| <i>Pimephales promelas</i><br>Northern fathead minnow    | 2             | Highly<br>Tolerant             | 0        | --  |
| <i>Pimephales notatus</i><br>Bluntnose minnow            | 2             | Highly<br>Tolerant             | 0        | --  |
| <i>Campostoma anomalum</i><br>Central stoneroller minnow | 218           | --                             | 0        | --  |
| <i>Lepomis cyanellus</i><br>Green sunfish                | 2             | Highly<br>Tolerant             | 0        | --  |
| Totals   | <u>404</u>    |                                | <u>0</u> |   |

\*DELT anomalies were observed on 0.0 of the fish collected.  
Index of Biotic Integrity (IBI) = 30 (Fair)

Mill Creek Upstream of Warner Road Tributary

6/21/2011

River Mile: 0.70

Collection Method: Longline Electroshocking

Drainage Area: 18.2 miles<sup>2</sup>

Collection Distance: 0.15 km

| <u>Species</u>   | <u>Number</u> | <u>Pollution Tolerance</u> | <u>DELT #</u> | <u>Anomalies Description</u> |
|--|---------------|----------------------------|---------------|------------------------------|
| <i>Hypentelium nigricans</i><br>Northern hog sucker      | 2             | Moderately Intolerant      | 0             | --                           |
| <i>Catostomus commersonii</i><br>Common white sucker     | 7             | Highly Tolerant            | 0             | --                           |
| <i>Rhinichthys atratulus</i><br>Western blacknose dace   | 141           | Highly Tolerant            | 0             | --                           |
| <i>Semotilus atromaculatus</i><br>Creek chub             | 56            | Highly Tolerant            | 0             | --                           |
| <i>Notropis cornutus</i><br>Common shiner                | 11            | --                         | 0             | --                           |
| <i>Cyprinella spiloptera</i><br>Spotfin shiner           | 1             | --                         | 0             | --                           |
| <i>Notropis stramineus</i><br>Sand shiner                | 15            | Moderately Intolerant      | 0             | --                           |
| <i>Pimephales promelas</i><br>Northern fathead minnow    | 2             | Highly Tolerant            | 0             | --                           |
| <i>Pimephales notatus</i><br>Bluntnose minnow            | 11            | Highly Tolerant            | 0             | --                           |
| <i>Campostoma anomalum</i><br>Central stoneroller minnow | 74            | --                         | 0             | --                           |
| <i>Ictalurus nebulosus</i><br>Brown bullhead             | 1             | Highly Tolerant            | 1             | Multiple                     |
| <i>Lepomis cyanellus</i><br>Green sunfish                | 1             | Highly Tolerant            | 0             | --                           |
| <i>Lepomis macrochirus</i><br>Northern bluegill sunfish  | 11            | Moderately Tolerant        | 0             | --                           |
| Totals   | <u>333</u>    |                            | <u>1</u>      |                              |

\*DELT anomalies were observed on 0.3 of the fish collected.  
Index of Biotic Integrity (IBI) = 34 (Fair)



Mill Creek Upstream of Warner Road Tributary

8/11/2011

River Mile: 0.70

Collection Method: Longline Electroshocking

Drainage Area: 18.2 miles<sup>2</sup>

Collection Distance: 0.15 km

| <u>Species</u>   | <u>Number</u> | <u>Pollution Tolerance</u> | <u>DELT #</u> | <u>Anomalies Description</u> |
|--|---------------|----------------------------|---------------|------------------------------|
| <i>Moxostoma macrolepidotum</i><br>Shorthead redhorse    | 1             | Moderately Intolerant      | 0             | --                           |
| <i>Hypentelium nigricans</i><br>Northern hog sucker      | 2             | Moderately Intolerant      | 0             | --                           |
| <i>Catostomus commersonii</i><br>Common white sucker     | 48            | Highly Tolerant            | 0             | --                           |
| <i>Carassius auratus</i><br>Goldfish                     | 1             | Highly Tolerant            | 0             | --                           |
| <i>Rhinichthys atratulus</i><br>Western blacknose dace   | 90            | Highly Tolerant            | 0             | --                           |
| <i>Semotilus atromaculatus</i><br>Creek chub             | 189           | Highly Tolerant            | 0             | --                           |
| <i>Notropis cornutus</i><br>Common shiner                | 57            | --                         | 0             | --                           |
| <i>Cyprinella spiloptera</i><br>Spotfin shiner           | 1             | --                         | 0             | --                           |
| <i>Notropis stramineus</i><br>Sand shiner                | 33            | Moderately Intolerant      | 0             | --                           |
| <i>Ericymba buccata</i><br>Silverjaw minnow              | 2             | --                         | 0             | --                           |
| <i>Pimephales promelas</i><br>Northern fathead minnow    | 3             | Highly Tolerant            | 0             | --                           |
| <i>Pimephales notatus</i><br>Bluntnose minnow            | 32            | Highly Tolerant            | 0             | --                           |
| <i>Campostoma anomalum</i><br>Central stoneroller minnow | 286           | --                         | 0             | --                           |
| <i>Ictalurus natalis</i><br>Yellow bullhead              | 37            | Highly Tolerant            | 1             | Eroded barbel                |
| <i>Micropterus dolomieu</i><br>Smallmouth bass           | 3             | Moderately Intolerant      | 0             | --                           |

**Mill Creek Upstream of Warner Road Tributary**

**8/11/2011**

**River Mile: 0.70**

|  |            |                    |          |    |
|--|------------|--------------------|----------|----|
| <i>Lepomis gulosus</i><br>Warmouth sunfish | 1          | --                 | 0        | -- |
| <i>Lepomis cyanellus</i><br>Green sunfish  | 18         | Highly<br>Tolerant | 0        | -- |
| <hr/>                                      |            |                    |          |    |
| Totals                                     | <u>804</u> |                    | <u>1</u> |    |

\*DELT anomalies were observed on 0.1 of the fish collected.  
 Index of Biotic Integrity (IBI) = 38 (Marginally Good)

**Mill Creek Upstream of Canal Road**  
**6/17/2011**  
**River Mile: 0.12**  
**Collection Method: Longline Electroshocking**  
**Drainage Area: 19.5 miles<sup>2</sup>**  
**Collection Distance: 0.15 km**

| <u>Species</u>   | <u>Number</u> | <u>Pollution Tolerance</u> | <u>#</u> | <u>DELT Anomalies Description</u> |
|--|---------------|----------------------------|----------|-----------------------------------|
| <i>Hypentelium nigricans</i><br>Northern hog sucker      | 4             | Moderately Intolerant      | 0        | --                                |
| <i>Catostomus commersonii</i><br>Common white sucker     | 41            | Highly Tolerant            | 0        | --                                |
| <i>Rhinichthys atratulus</i><br>Western blacknose dace   | 13            | Highly Tolerant            | 0        | --                                |
| <i>Semotilus atromaculatus</i><br>Creek chub             | 67            | Highly Tolerant            | 0        | --                                |
| <i>Notropis cornutus</i><br>Common shiner                | 21            | --                         | 2        | Lesions                           |
| <i>Cyprinella spiloptera</i><br>Spotfin shiner           | 1             | --                         | 0        | --                                |
| <i>Notropis stramineus</i><br>Sand shiner                | 83            | Moderately Intolerant      | 0        | --                                |
| <i>Ericymba buccata</i><br>Silverjaw minnow              | 1             | --                         | 0        | --                                |
| <i>Pimephales promelas</i><br>Northern fathead minnow    | 2             | Highly Tolerant            | 0        | --                                |
| <i>Pimephales notatus</i><br>Bluntnose minnow            | 88            | Highly Tolerant            | 0        | --                                |
| <i>Campostoma anomalum</i><br>Central stoneroller minnow | 237           | --                         | 0        | --                                |
| <i>Ictalurus natalis</i><br>Yellow bullhead              | 5             | Highly Tolerant            | 0        | --                                |
| <i>Ictalurus nebulosus</i><br>Brown bullhead             | 3             | Highly Tolerant            | 2        | Lesion & multiple                 |
| <i>Ambloplites rupestris</i><br>Northern rockbass        | 1             | --                         | 0        | --                                |
| <i>Micropterus dolomieu</i><br>Smallmouth bass           | 1             | Moderately Intolerant      | 0        | --                                |

**Mill Creek Upstream of Canal Road**

**6/17/2011**

**River Mile: 0.12**

|   |            |                        |          |    |
|---|------------|------------------------|----------|----|
| <i>Lepomis cyanellus</i><br>Green sunfish               | 6          | Highly<br>Tolerant     | 0        | -- |
| <i>Lepomis macrochirus</i><br>Northern bluegill sunfish | 2          | Moderately<br>Tolerant | 0        | -- |
| <i>Etheostoma nigrum</i><br>Johnny darter               | 2          | --                     | 0        | -- |
| <i>HYBRID</i><br>Bluegill X Pumpkinseed                 | 1          | --                     | 0        |    |
| <hr/>   |            |                        |          |    |
| Totals  | <u>579</u> |                        | <u>4</u> |    |

\*DELT anomalies were observed on 0.7 of the fish collected.  
 Index of Biotic Integrity (IBI) = 34 (Fair)

**Mill Creek Upstream of Canal Road**  
**8/9/2011**  
**River Mile: 0.12**  
**Collection Method: Longline Electroshocking**  
**Drainage Area: 19.5 miles<sup>2</sup>**  
**Collection Distance: 0.15 km**

| <u>Species</u>   | <u>Number</u> | <u>Pollution Tolerance</u> | <u>#</u> | <u>DELT Anomalies Description</u> |
|--|---------------|----------------------------|----------|-----------------------------------|
| <i>Hypentelium nigricans</i><br>Northern hog sucker      | 4             | Moderately Intolerant      | 0        | --                                |
| <i>Catostomus commersonii</i><br>Common white sucker     | 44            | Highly Tolerant            | 0        | --                                |
| <i>Rhinichthys atratulus</i><br>Western blacknose dace   | 7             | Highly Tolerant            | 0        | --                                |
| <i>Semotilus atromaculatus</i><br>Creek chub             | 32            | Highly Tolerant            | 0        | --                                |
| <i>Notropis cornutus</i><br>Common shiner                | 16            | --                         | 1        | Lesion                            |
| <i>Cyprinella spiloptera</i><br>Spotfin shiner           | 2             | --                         | 0        | --                                |
| <i>Notropis stramineus</i><br>Sand shiner                | 44            | Moderately Intolerant      | 0        | --                                |
| <i>Ericymba buccata</i><br>Silverjaw minnow              | 1             | --                         | 0        | --                                |
| <i>Pimephales notatus</i><br>Bluntnose minnow            | 13            | Highly Tolerant            | 0        | --                                |
| <i>Campostoma anomalum</i><br>Central stoneroller minnow | 142           | --                         | 0        | --                                |
| <i>Ictalurus natalis</i><br>Yellow bullhead              | 18            | Highly Tolerant            | 0        | --                                |
| <i>Micropterus dolomieu</i><br>Smallmouth bass           | 3             | Moderately Intolerant      | 0        | --                                |
| <i>Micropterus salmoides</i><br>Largemouth bass          | 1             | --                         | 0        | --                                |
| <i>Lepomis cyanellus</i><br>Green sunfish                | 6             | Highly Tolerant            | 0        | --                                |
| <i>Etheostoma nigrum</i><br>Johnny darter                | 1             | --                         | 0        | --                                |

**Mill Creek Upstream of Canal Road**  
**8/9/2011**

**River Mile: 0.12**

|   |            |    |          |    |
|---|------------|----|----------|----|
| <i>Neogobius melanostomus</i><br>Round goby | 1          | -- | 0        | -- |
| <hr style="width: 20%; margin: 0 auto;"/>   |            |    |          |    |
| Totals                                      | <u>335</u> |    | <u>1</u> |    |

\*DELT anomalies were observed on 0.3 of the fish collected.  
 Index of Biotic Integrity (IBI) = 38 (Marginally Good)