

Instructions: Bold fields must be completed.

**Station Summary**

|  |                                    |   |
|--|------------------------------------|---|
| <b>Waterbody Name</b><br>MECAN RIVER         | <b>Waterbody ID Code</b><br>155000 | <b>Sample ID (YYYYMMDD-CY-FD)</b><br>20171017-70-05 |
| <b>Sampling Location</b><br>45 Cumberland Rd |                                    | <b>Database Key</b><br>149844347                    |

|                                     |   |
|-------------------------------------|---|
| <b>SWIMS Station ID</b><br>10039319 | <b>SWIMS Station Name</b><br>MECAN RIVER AT CUMBERLAND RD |
|-------------------------------------|---|

|                              |                               |  |   |
|------------------------------|-------------------------------|--|---|
| <b>Latitude</b><br>N44.02230 | <b>Longitude</b><br>W89.42671 | <b>Lat/Long Determination Method (circle)</b><br>SWIMS SWDV <u>GPS</u> | <b>Datum Used if using GPS</b><br><u>WGS84</u> or NAD83 |
|------------------------------|-------------------------------|--|---|

|                                 |                                      |                           |
|---------------------------------|--------------------------------------|---------------------------|
| <b>Basin (WMU)</b><br>UPPER FOX | <b>Watershed Name</b><br>MECAN RIVER | <b>County</b><br>WAUSHARA |
|---------------------------------|--------------------------------------|---------------------------|

**Sample and Site Descriptors**

|   |   |
|---|---|
| <b>Sample Collector (Last Name, First)</b><br>DAVID BOLHA | <b>Project Name</b><br>MACROINVERTEBRATE SPATIAL ANALYSIS |
|---|---|

**Sampling Device**

D-Frame Kick Net    
  Surber Sampler    
  Eckman  
 Ponar    
  Artificial Substrate    
  Hess Sampler    
 Other: \_\_\_\_\_

**Habitat Sampled**

Riffle    
  Run    
  Pool  
 Other    
  Shoreline Composite    
  Proportionally-Sampled Habitat  
 Littoral Zone    
  Profundal Zone    
  Wetland

|   |   |  |  |
|---|---|--|--|
| <b>Total Sampling Time (min)</b><br>1.0 | <b>Estimated Area Sampled (m<sup>2</sup>)</b><br>0.75 | <b>Number of Samples in Composite</b><br>1 | <b>Replicate No.</b> _____ <b>of</b> _____ |
|---|---|--|--|

**Reason For Sampling**

Least Impacted Reference    
 Baseline    
 Impact / Treatment Site  
 Control Site    
 Trend    
 Other: \_\_\_\_\_

|  |                           |                              |                        |   |                                 |
|--|---------------------------|------------------------------|------------------------|---|---------------------------------|
| <b>Water Temp. (°F)</b><br>9.2° 48.6 F | <b>D.O. (mg/l)</b><br>9.5 | <b>D.O. (% sat.)</b><br>82.1 | <b>pH (su)</b><br>7.97 | <b>Conductivity (umhos/cm)</b><br>371.0 | <b>Transparency (cm)</b><br>120 |
|--|---------------------------|------------------------------|------------------------|---|---------------------------------|

|  |  |
|--|--|
| <b>Water Color</b><br><input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained | <b>Estimated Stream Velocity (m/s)</b><br><input type="checkbox"/> Slow (< 0.15 m/s) <input type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input checked="" type="checkbox"/> Fast (> 0.5 m/s) |
|--|--|

|                                  |                                   |   |   |
|----------------------------------|-----------------------------------|---|---|
| <b>Measured Velocity</b><br>1.92 | circle units<br>m/s or <u>f/s</u> | <b>Average Stream Depth of reach (m)</b><br>0.3 | <b>Average Stream Width of reach (m)</b><br>8 |
|----------------------------------|-----------------------------------|---|---|

**Composition of Substrate Sampled (Percent):**

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): \_\_\_\_\_ Rubble (tennisball to basketball): 10 Gravel (ladybug to tennisball): 40  
 Sand: 50 Clay: \_\_\_\_\_ Silt/Muck: \_\_\_\_\_ Overhanging Vegetation: \_\_\_\_\_  
 Aquatic Macrophytes: \_\_\_\_\_ Leaf Snags: \_\_\_\_\_ Coarse Woody Debris: \_\_\_\_\_ Other ( ): \_\_\_\_\_

**Embeddedness of Substrate at Sample Site (%)** 30    
**Canopy Cover at Sample Site (%)** 50

**Stream and Watershed Descriptors**

N = Not a problem  
 U = Uncertain  
 PL = Present, Low Impact  
 PH = Present, High Impact

| Factors that may be influencing Water Resource Integrity |  | Local | Water-shed | Factors that may be influencing Water Resource Integrity |  | Local | Water-shed |
|--|--|-------|------------|--|--|-------|------------|
| <b>Biological</b>  |  |       |            | <b>Chemical</b>  |  |       |            |
| Algae: - Diatoms / Periphyton                            |  |       |            | Chlorine   |  |       |            |
| - Filamentous Algae                                      |  |       |            | Dissolved Oxygen   |  |       |            |
| - Planktonic Algae                                       |  |       |            | Nutrients (P, N...)                                      |  |       |            |
| Iron Bacteria  |  |       |            | Toxics: - Inorganic (Metals)                             |  |       |            |
| Macrophytes  |  |       |            | - Organic (PCBs, pesticides...)                          |  |       |            |
| Slimes   |  |       |            | Other - Specify:   |  |       |            |
| Other - Specify:   |  |       |            | <b>Sources of Stream Impacts</b>                         |  |       |            |
|  |  |       |            | Bank Erosion   |  |       |            |
|  |  |       |            | Point Source - Specify:                                  |  |       |            |
|  |  |       |            | Pasturing of Livestock                                   |  |       |            |
| <b>Physical</b>  |  |       |            | Runoff: - Barnyard                                       |  |       |            |
| Bank Erosion   |  |       |            | - Construction   |  |       |            |
| Channelization: - Upstream                               |  |       |            | - Cropland   |  |       |            |
| - Downstream   |  |       |            | - Urban  |  |       |            |
| Hydraulic Scour / Channel Incision                       |  |       |            | Septic Systems   |  |       |            |
| Impoundment: - Upstream                                  |  |       |            | Tile Drainage - Organic Soils                            |  |       |            |
| - Downstream   |  |       |            | - Mineral Soils  |  |       |            |
| Low Flow   |  |       |            | Springs  |  |       |            |
| Sedimentation  |  |       |            | Tributary(s)   |  |       |            |
| Sludge   |  |       |            | Wetland  |  |       |            |
| Thermal  |  |       |            | Other - Specify:   |  |       |            |
| Turbidity  |  |       |            |  |  |       |            |
| Other - Specify:   |  |       |            |  |  |       |            |

Comments

Special Instructions for Laboratory

**For Lab Use Only**

|                                     |  |  |
|-------------------------------------|--|--|
| Sample Sorter<br><i>Sam Camacho</i> | Taxonomist<br><i>Dimick, Jeffrey</i>                               | Estimated Percent of Sample Sorted<br><i>13%</i> |
| Date Processed<br><i>11/15/18</i>   | Specimens Saved<br><i>Subsample archived in ABL until Feb 2022</i> |  |

3D IC  
 64 69 133