**Wadeable Macroinvertebrate Field Data Report**

**Form 3200-081 (R 8/14)**

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### Station Summary

<table>
<thead>
<tr>
<th>Waterbody Name</th>
<th>Waterbody ID Code</th>
<th>Sample ID (YYYYMMDD-CY-FD)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>20190416-50-7</td>
</tr>
</tbody>
</table>

### Sampling Location

255-R-53m-48-041619

### SWIMS Station ID

10049350

### SWIMS Station Name

EMMONS CREEK - CONTROL REACH NEAR STRATTON LAKE RD

### Basin (WMU)

WOLF RIVER

### Watershed Name

WAUPACA RIVER

### Project Name

EMMONS CREEK DISCHARGE REDUCTION MI FY18

### Sample Collector (Last Name, First)

DAVID A BOLHA, MICHAEL P SHUPRYT

### Sample Device

- [ ] D-Frame Kick Net
- [ ] Surber Sampler
- [ ] Eckman
- [ ] Ponar
- [ ] Artificial Substrate
- [ ] Hess Sampler
- [ ] Other: Core

### Habitat Sampled

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

### Total Sampling Time (min)

Estimated Area Sampled (m²)

Number of Samples in Composite

Replicate No. of

### Reason For Sampling

- [ ] Least Impacted Reference
- [ ] Control Site
- [ ] Baseline
- [ ] Trend
- [ ] Impact / Treatment Site
- [ ] Other: Special Project

### Water Temp. (C)

D.O. (mg/l)

D.O. (% sat.)

pH (su)

Conductivity (umhos/cm)

Transparency (cm)

### Water Color

- [ ] Clear
- [ ] Turbid
- [ ] Stained

Estimated Stream Velocity (m/s)

- [ ] Slow
  - (< 0.15 m/s)
- [ ] Moderate
  - (0.15 m/s - 0.5 m/s)
- [ ] Fast
  - (> 0.5 m/s)

### Measured Velocity

circle units

- m/s
- f/s

Average Stream Depth of reach (m)

Average Stream Width of reach (m)

### Composition of Substrate Sampled (Percent):

- **Bedrock:**
  - (basketball or larger):
- **Rubble:**
  - (tennisball to basketball):
- **Gravel:**
  - (ladybug to tennisball):
- **Sand:**
  - Clay:
  - Silt/Muck:
  - Overhanging Vegetation:
- **Aquatic Macrophytes:**
  - Leaf Snags:
  - Coarse Woody Debris:
  - Other (_______):

### Embeddedness of Substrate at Sample Site (%)

Canopy Cover at Sample Site (%)
### Stream and Watershed Descriptors

**Factors that may be influencing Water Resource Integrity**

<table>
<thead>
<tr>
<th>Biological</th>
<th>Local</th>
<th>Watershed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Algae: - Diatoms / Periphyton</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Filamentous Algae</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Planktonic Algae</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Iron Bacteria</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Macrophytes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Slimes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other - Specify:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Factors that may be influencing Water Resource Integrity**

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Local</th>
<th>Watershed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorine</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dissolved Oxygen</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nutrients (P, N...)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Toxics: - Inorganic (Metals)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Organic (PCBs, pesticides...)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other - Specify:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Sources of Stream Impacts**

- Bank Erosion
- Point Source - Specify:
- Pasturing of Livestock
- Runoff: - Barnyard
- Construction
- Cropland
- Urban
- Septic Systems
- Tile Drainage - Organic Soils
- - Mineral Soils
- Sludge
- Springs
- Thermal
- Tributary(s)
- Turbidity
- Wetland
- Other - Specify:
- Other - Specify:

**Comments**

Special Instructions for Laboratory

### For Lab Use Only

<table>
<thead>
<tr>
<th>Sample Sorter</th>
<th>Taxonomist</th>
<th>Estimated Percent of Sample Sorted</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dimick Jeffrey</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date Processed</th>
<th>Specimens Saved</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sample archived in ABL until Nov 2022</td>
</tr>
<tr>
<td>Taxa</td>
<td>Life Stage</td>
</tr>
<tr>
<td>-------------------------</td>
<td>------------</td>
</tr>
<tr>
<td>Glossosoma</td>
<td>P</td>
</tr>
<tr>
<td>Mesoanax oligus</td>
<td>L</td>
</tr>
<tr>
<td>Asiloca</td>
<td>L</td>
</tr>
<tr>
<td>Chironomidae sp.250000</td>
<td>L</td>
</tr>
<tr>
<td>Chironomidae sp.2500002</td>
<td>P</td>
</tr>
<tr>
<td>Naicinex</td>
<td>A</td>
</tr>
<tr>
<td>Megadril = Metacypridida</td>
<td>A</td>
</tr>
</tbody>
</table>