**Wadeable Macroinvertebrate Field Data Report**

**State of Wisconsin**
**Department of Natural Resources**
**PO Box 7291, Madison WI 53707-7291**
**dnr.wi.gov**

**Instructions:** Bold fields must be completed.

### 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>Emmons Creek</td>
<td></td>
<td>20180423-50</td>
</tr>
</tbody>
</table>

### Sampling Location

SWIMS Station ID: 10049350

<table>
<thead>
<tr>
<th>Lat/Long Determination Method (circle)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWIMS</td>
</tr>
<tr>
<td>SWDV</td>
</tr>
<tr>
<td>GPS</td>
</tr>
</tbody>
</table>

### Basin (WMU)

<table>
<thead>
<tr>
<th>Watershed Name</th>
<th>Waterbody Name</th>
<th>County</th>
</tr>
</thead>
<tbody>
<tr>
<td>WOLF RIVER</td>
<td>WAUPACA RIVER</td>
<td>FORTAGE</td>
</tr>
</tbody>
</table>

### Sample and Site Descriptors

**Sample Collector (Last Name, First):**

DAVID A BOLHA, MICHAEL P SHUPRYT

**Project Name:**

EMMONS CREEK DISCHARGE REDUCTION MI FY18

### Sampling Device

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

### Habitat Sampled

- [ ] Riftle
- [ ] Run
- [ ] Shoreline Composite
- [ ] Pool
- [ ] Proportionally-Sampled Habitat
- [ ] Other: Wetland

### Waterbody Name

- [ ] Embeddedness of Substrate at Sample Site (%)
- [ ] Canopy Cover at Sample Site (%)

### Reason For Sampling

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

### Water Temp. (C)

<table>
<thead>
<tr>
<th>D.O. (mg/l)</th>
<th>D.O. (% sat.)</th>
<th>pH (su)</th>
<th>Conductivity (umhos/cm)</th>
<th>Transparency (cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>circle units</th>
<th>Average Stream Depth of reach (m)</th>
<th>Average Stream Width of reach (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>m/s or f/s</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 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 (__________):

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

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# Wadeable Macroinvertebrate Field Data Report

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

## Stream and Watershed Descriptors

<table>
<thead>
<tr>
<th>Biological</th>
<th>Chemical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Factors that may be influencing Water Resource Integrity</td>
<td>Factors that may be influencing Water Resource Integrity</td>
</tr>
<tr>
<td>N = Not a problem</td>
<td>PL = Present, Low Impact</td>
</tr>
<tr>
<td>U = Uncertain</td>
<td>PH = Present, High Impact</td>
</tr>
</tbody>
</table>

### Biological Factors
- **Algae**
  - Diatoms / Periphyton
  - Filamentous Algae
  - Planktonic Algae
- **Iron Bacteria**
- **Macrophytes**
- **Slimes**
- **Other - Specify:**

### Chemical Sources
- **Chlorine**
- **Dissolved Oxygen**
- **Nutrients (P, N...)**
- **Toxics:**
  - Inorganic (Metals)
  - Organic (PCBs, pesticides...)
- **Other - Specify:**

### Physical Factors
- **Bank Erosion**
- **Point Source - Specify:**
  - Pasturing of Livestock
  - Runoff:
    - Barnyard
    - Construction
  - Cropland
  - Urban
  - Hydraulic Scour / Channel Incision
  - Impoundment:
    - Upstream
    - Downstream
  - Low Flow
  - Sedimentation
  - Sludge
  - Thermal
  - Turbidity
  - Other - Specify:

### Sources of Stream Impacts
- **Bank Erosion**
- **Point Source - Specify:**
- **Pasturing of Livestock**
- **Runoff:**
  - Barnyard
  - Construction
  - Cropland
  - Urban
- **Hydraulic Scour / Channel Incision**
- **Impoundment:**
  - Upstream
  - Downstream
- **Low Flow**
- **Sedimentation**
- **Sludge**
- **Thermal**
- **Turbidity**
- **Other - Specify:**

## Comments

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**Special Instructions for Laboratory**

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### 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>[Signature]</td>
<td>Dimick, Jeffrey</td>
<td>100 seats</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date Processed</th>
<th>Specimens Saved</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/1/23</td>
<td>[Signature] SENT TO ADOBE UNTIL MAR 2022</td>
</tr>
</tbody>
</table>

---
<table>
<thead>
<tr>
<th>Taxa</th>
<th>Life Stage</th>
<th>Bench Tally</th>
<th>Count</th>
<th>Taxonomic Reference</th>
<th>Condition</th>
<th>Unique Taxon</th>
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<tbody>
<tr>
<td><em>Brachycentrus americanus</em></td>
<td>L</td>
<td>x 1</td>
<td>1</td>
<td>WLS 1985</td>
<td></td>
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<tr>
<td><em>B. occidentalis</em></td>
<td>L</td>
<td>III</td>
<td>3</td>
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<tr>
<td><em>Brachycentrus</em></td>
<td>P</td>
<td>III</td>
<td>8</td>
<td>WAG 1999</td>
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<tr>
<td><em>Microsoma gelidum</em></td>
<td>L</td>
<td>II</td>
<td>2</td>
<td>(WLS 1985)</td>
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<tr>
<td><em>Glossosoma intermedium</em></td>
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<td>27</td>
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<td><em>Glossosoma</em></td>
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<td>IV</td>
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<tr>
<td><em>Oxyobranchus fastidius</em></td>
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<tr>
<td><em>Simulium</em></td>
<td>L</td>
<td>II</td>
<td>2</td>
<td>ADL et al. 2005</td>
<td>imm</td>
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<tr>
<td><em>S. tuberosum species complex</em></td>
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<td>12</td>
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<td><em>Anopheles</em></td>
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<td><em>Gammarus pseudolimacus</em></td>
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<td>II</td>
<td>7</td>
<td>WLS 1977</td>
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<tr>
<td><em>Pectinodora</em></td>
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<td><em>Ephemeridae</em></td>
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<tr>
<td><em>Naididae</em></td>
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<td>X</td>
<td>10</td>
<td>Brainard 1941</td>
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<tr>
<td><em>Megadrii = Meta Synephyre</em></td>
<td>A</td>
<td>III</td>
<td>3</td>
<td>Theor Reg 2016</td>
<td></td>
<td></td>
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</table>