

Instructions: Bold fields must be completed.

**Station Summary**

|                                  |                             |                                              |
|----------------------------------|-----------------------------|----------------------------------------------|
| Waterbody Name<br>UNNAMED        | Waterbody ID Code<br>139100 | Sample ID (YYYYMMDD-CY-FD)<br>20171108-20-02 |
| Sampling Location<br>US County K |                             | Database Key<br>149253340                    |

|                              |                                                             |                                                          |                                           |
|------------------------------|-------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------|
| SWIMS Station ID<br>10031383 | SWIMS Station Name<br>EAST BRANCH TO DE NEVUE CR. SITE ED4A |                                                          |                                           |
| Latitude<br>43.720783        | Longitude<br>-88.39979                                      | Lat/Long Determination Method (circle)<br>SWIMS SWDV GPS | Datum Used if using GPS<br>WGS84 or NAD83 |
| Basin (WMU)<br>UPPER FOX     |                                                             | Watershed Name<br>LAKE WINNEBAGO - EAST                  | County<br>FOND DU LAC                     |

**Sample and Site Descriptors**

|                                                    |                                                                 |
|----------------------------------------------------|-----------------------------------------------------------------|
| Sample Collector (Last Name, First)<br>DAVID BOLHA | Project Name<br>EAST DISTRICT FOLLOW UP MONITORING FOR IMPAIRED |
|----------------------------------------------------|-----------------------------------------------------------------|

**Sampling Device**

|                                                      |                                               |                                                                             |
|------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> D-Frame Kick Net | <input type="checkbox"/> Surber Sampler       | <input type="checkbox"/> Eckman                                             |
| <input type="checkbox"/> Ponar                       | <input type="checkbox"/> Artificial Substrate | <input type="checkbox"/> Hess Sampler <input type="checkbox"/> Other: _____ |

**Habitat Sampled**

|                                            |                                              |                                                         |
|--------------------------------------------|----------------------------------------------|---------------------------------------------------------|
| <input checked="" type="checkbox"/> Riffle | <input type="checkbox"/> Run                 | <input type="checkbox"/> Pool                           |
| <input type="checkbox"/> Other             | <input type="checkbox"/> Shoreline Composite | <input type="checkbox"/> Proportionally-Sampled Habitat |
| <input type="checkbox"/> Littoral Zone     | <input type="checkbox"/> Profundal Zone      | <input type="checkbox"/> Wetland                        |

|                                |                                                 |                                     |                              |
|--------------------------------|-------------------------------------------------|-------------------------------------|------------------------------|
| Total Sampling Time (min)<br>2 | Estimated Area Sampled (m <sup>2</sup> )<br>1.5 | Number of Samples in Composite<br>1 | Replicate No. _____ of _____ |
|--------------------------------|-------------------------------------------------|-------------------------------------|------------------------------|

**Reason For Sampling**

|                                                   |                                   |                                                                 |
|---------------------------------------------------|-----------------------------------|-----------------------------------------------------------------|
| <input type="checkbox"/> Least Impacted Reference | <input type="checkbox"/> Baseline | <input type="checkbox"/> Impact / Treatment Site                |
| <input type="checkbox"/> Control Site             | <input type="checkbox"/> Trend    | <input checked="" type="checkbox"/> Other: Follow-up monitoring |

|                                 |                     |                       |                |                                  |                         |
|---------------------------------|---------------------|-----------------------|----------------|----------------------------------|-------------------------|
| Water Temp. (°F)<br>42°C 39.6°F | D.O. (mg/l)<br>10.1 | D.O. (% sat.)<br>76.7 | pH (su)<br>8.1 | Conductivity (umhos/cm)<br>842.1 | Transparency (cm)<br>55 |
|---------------------------------|---------------------|-----------------------|----------------|----------------------------------|-------------------------|

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

|                                                 |                                         |                                          |
|-------------------------------------------------|-----------------------------------------|------------------------------------------|
| Measured Velocity<br>circle units<br>m/s or f/s | Average Stream Depth of reach (m)<br>.2 | Average Stream Width of reach (m)<br>5.5 |
|-------------------------------------------------|-----------------------------------------|------------------------------------------|

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

|                            |                                        |                                       |                                    |
|----------------------------|----------------------------------------|---------------------------------------|------------------------------------|
| Bedrock: _____             | Boulders (basketball or larger): _____ | Rubble (tennisball to basketball): 30 | Gravel (ladybug to tennisball): 50 |
| Sand: 20                   | Clay: _____                            | Silt/Muck: _____                      | Overhanging Vegetation: _____      |
| Aquatic Macrophytes: _____ | Leaf Snags: _____                      | Coarse Woody Debris: _____            | Other ( ): _____                   |

|                                                 |                                    |
|-------------------------------------------------|------------------------------------|
| Embeddedness of Substrate at Sample Site (%) 20 | Canopy Cover at Sample Site (%) 90 |
|-------------------------------------------------|------------------------------------|

**Stream and Watershed Descriptors**

N = Not a problem  
U = Uncertain

PL = Present, Low Impact  
PH = Present, High Impact

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

Comments

Special Instructions for Laboratory

**For Lab Use Only**

|                                      |                                                                    |                                                 |
|--------------------------------------|--------------------------------------------------------------------|-------------------------------------------------|
| Sample Sorter<br><i>Kayla Wilcox</i> | Taxonomist<br><i>Dimick, Jeffery</i>                               | Estimated Percent of Sample Sorted<br><i>7%</i> |
| Date Processed<br><i>12/12/17</i>    | Specimens Saved<br><i>Subsample archived in ABL until Apr 2021</i> |                                                 |

*DD = 159*

|     | Taxa                                          | Life Stage | Bench Tally | Count | Taxonomic Reference | Condition | Unique Taxon |
|-----|-----------------------------------------------|------------|-------------|-------|---------------------|-----------|--------------|
|     | Allacampnia                                   | L          | x           | 10    | Hilsenhoff 1995     |           |              |
| 1/3 | Baetis brunneicollis                          | L          | -1          | 6     | Hilsenhoff 2016     |           |              |
|     | B. tricaudatus                                | L          | -11         | 7     | "                   |           |              |
|     | B. flavistriga species complex                | L          | 11          | 2     | "                   |           |              |
|     | Chaetopsyche                                  | L          | x-1111      | 19    | Hilsenhoff 1995     |           |              |
|     | Hydropsyche                                   | L          | ?           | 1     | "                   | imm       | N            |
|     | H. betteni                                    | L          | -111        | 8     | Schm., Hils. 1986   |           |              |
|     | Ceratopsyche slovicanae                       | L          | 1           | 1     | "                   |           |              |
| 2/8 | Psychomyia flavida                            | L          | 1           | 1     | Hilsenhoff 1995     |           |              |
|     | Odesorus                                      | L          | -1111       | 11    | Hils., Schm. 1992   | imm       | N            |
|     | O. fastidiosus L. 12 A. 6                     | LA         | x-111       | 18    | "                   |           |              |
|     | Stenelmis                                     | L          | 1           | 1     | "                   |           |              |
|     | Nemurodromia                                  | L          | 1           | 1     | Court., Merr. 2008  |           |              |
|     | Neoplasia                                     | L          | 1           | 1     | "                   |           |              |
|     | Simulium vittatum Species complex 08110217    | L          | 11          | 2     | Ader et al 2024     |           |              |
|     | S. fibroflatum                                | L          | -1          | 6     | "                   |           |              |
|     | S. jenningsi Species Group                    | L          | -           | 5     | "                   | imm       | N            |
|     | Antocha                                       | L          | 1           | 1     | Hilsenhoff 1995     |           |              |
|     | Demita                                        | L          | 1           | 1     | "                   |           |              |
|     | Tipula                                        | L          | 1           | 1     | "                   |           |              |
|     | Comptosia                                     | L          | x1          | 6     | Ader. + 3 2013      |           |              |
|     | Gammarus pseudolimnensis                      | A          | -1          | 6     | Holsinger 1972      |           |              |
|     | Tritolacina                                   | A          | 1           | 1     | Kolasa 1991         |           |              |
|     | Maidinae                                      | A          | 1111        | 4     | Ban. Celd. 1991     |           |              |
|     | Trichoptera: Mairidae w/o capilliform chaetae | A          | 1111        | 4     | Ersev et al 2008    |           |              |
|     | Orthocladinae 08300000                        | L          | 1           | 1     | Cranston 2013       | imm       | N            |
|     | Brillia                                       | L          | -           | 5     | Ader. + 3 2013      | imm       |              |
|     | Eukiefferiella claripennis group              | L          | 1           | 1     | "                   |           |              |
|     | Parametriocnemus                              | L          | x1          | 11    | "                   |           |              |
|     | Thienemanniella                               | L          | 11          | 2     | "                   | dam/imm   | N            |
|     | Th. xera                                      | L          | 11          | 2     | Bolton 2012         |           |              |
|     | Tritonia hawaiiensis group                    | L          | 01111       | 24    | Bode 1983           |           |              |
|     | Orthocladus (Orthocladus)                     | L          | 1           | 1     | Ader. + 3 2013      |           |              |
|     | Polypedilum                                   | L          | 1           | 1     | Epler et al 2013    |           |              |

< 3 taxa, TVAL ≤ 2.0