

Instructions: Bold fields must be completed.

| Station Summary                       |                              |  |
|---------------------------------------|------------------------------|--|
| Waterbody Name<br><b>MANLEY CREEK</b> | Waterbody ID Code<br>1261200 | Sample ID (YYYYMMDD-CY-FD)<br>20170920-57-01 |
| Sampling Location                     |                              | Database Key<br>150519188                    |

|                                |   |  |   |
|--------------------------------|---|--|---|
| SWIMS Station ID<br>10010989   | SWIMS Station Name<br>MANLEY CREEK - MANLEY CREEK AT HWY 113 (DNR LAND) |  |   |
| Latitude<br>43.398323          | Longitude<br>-89.67581  | Lat/Long Determination Method (circle)<br>SWIMS SWDV GPS | Datum Used if using GPS<br>WGS84 or NAD83 |
| Basin (WMU)<br>LOWER WISCONSIN | Watershed Name<br>LAKE WISCONSIN  | County<br>SAUK   |   |

| Sample and Site Descriptors                        |  |
|--|--|
| Sample Collector (Last Name, First)<br>JEAN UNMUTH | Project Name<br>SCR LONG-TERM TREND WADEABLE REFERENCE STREAMS |

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

|                                  |   |                                |                              |
|----------------------------------|---|--------------------------------|------------------------------|
| Total Sampling Time (min)<br>3.0 | Estimated Area Sampled (m <sup>2</sup> )<br>3.0 | Number of Samples in Composite | Replicate No. _____ of _____ |
|----------------------------------|---|--------------------------------|------------------------------|

Reason For Sampling

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

|                         |                     |                      |                |                                |                          |
|-------------------------|---------------------|----------------------|----------------|--------------------------------|--------------------------|
| Water Temp. (C)<br>12.1 | D.O. (mg/l)<br>12.9 | D.O. (% sat.)<br>118 | pH (su)<br>8.1 | Conductivity (umhos/cm)<br>434 | Transparency (cm)<br>105 |
|-------------------------|---------------------|----------------------|----------------|--------------------------------|--------------------------|

|   |   |
|---|---|
| Water Color<br><input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained | Estimated Stream Velocity (m/s)<br><input checked="" type="checkbox"/> Slow (< 0.15 m/s) <input 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>0.5 | Average Stream Width of reach (m)<br>1.0 |
|---|--|--|

Composition of Substrate Sampled (Percent):

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): \_\_\_\_\_ Rubble (tennisball to basketball): \_\_\_\_\_ Gravel (ladybug to tennisball): \_\_\_\_\_

Sand: 10 Clay: \_\_\_\_\_ Silt/Muck: 10 Overhanging Vegetation: 10

Aquatic Macrophytes: \_\_\_\_\_ Leaf Snags: 20 Coarse Woody Debris: 50 Other ( ): \_\_\_\_\_

Embeddedness of Substrate at Sample Site (%) 0 Canopy Cover at Sample Site (%) 0

**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                            | N     |            | Chlorine   | N     | N          |
| - Filamentous Algae                                      | N     |            | Dissolved Oxygen   | N     | N          |
| - Planktonic Algae                                       | N     |            | Nutrients (P, N...)                                      | N     | N          |
| Iron Bacteria  | N     |            | Toxics: - Inorganic (Metals)                             | N     | N          |
| Macrophytes  | N     |            | - Organic (PCBs, pesticides...)                          |       |            |
| Slimes   | 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   | N     | N          |
| Hydraulic Scour / Channel Incision                       | PL    | PL         | - Urban  | N     | N          |
| Impoundment: - Upstream                                  | N     | N          | Septic Systems   | N     | N          |
| - Downstream   | N     | N          | Tile Drainage - Organic Soils                            | N     | N          |
| Low Flow   | N     |            | - Mineral Soils  | N     | N          |
| 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>Murphy Stehler | Taxonomist<br>Dimick Jeffrey                                  | Estimated Percent of Sample Sorted<br>20% |
| Date Processed<br>10/14/18      | Specimens Saved<br>Subsample archived in ABL cabinet Jan 2022 |   |

B3 44 A2 45  
 A3 42 Total = 131

| Taxa  | Life Stage | Bench Tally | Count | Taxonomic Reference | Condition     | Unique Taxon |
|---|------------|-------------|-------|---------------------|---------------|--------------|
| <i>Baetis brunneicolor</i>                        | L          | ii          | 7     | Klub 2016           |               |              |
| Heptageniidae                                     | L          | i           | 1     | "                   | dam           | N            |
| <i>Macca PERTIUM vicarium</i>                     | L          | iiii        | 4     | "                   |               |              |
| <i>Brachycentrus occidentalis</i>                 | L          | xiii        | 13    | Hils 1985           |               |              |
| <i>Leptostoma</i>                                 | L          | iii         | 3     | Hils 1995           |               |              |
| Limnephilidae                                     | L          | oai         | 23    | "                   | imm           | N            |
| <i>Limnephilus</i>                                | L          | iii         | 4     | "                   |               |              |
| <i>Platycentrus</i>                               | L          | i           | 1     | "                   | imm           |              |
| <i>Oligostomis ocelligera</i>                     | L          | ii          | 2     | "                   |               |              |
| <i>Helichus strabus</i>                           | AA         | i           | 1     | Hils Schum 1992     |               |              |
| <i>Ophioservus fastiditus</i>                     | L          | i           | 1     | "                   |               |              |
| <i>Cyranus affinis</i>                            | A          | i           | 1     | Hils 1990           |               |              |
| <i>Hydmena</i>                                    | A          | i           | 1     | Hils 1995 b         |               |              |
| <i>Tigra</i>                                      | L          | ii          | 2     | Hils 1995           |               |              |
| Dixidae   | P          | i           | 1     | Merc Webb 2008      |               |              |
| <i>Gammarus pseudolimnoides</i>                   | A          | 8           | 40    | Hils 1972           |               |              |
| <i>Belostoma flumineum</i>                        | A          | ii          | 2     | Hils 1984a          |               |              |
| Naidinae  | A          | ii          | 2     | Brink 1991          |               |              |
| Tubificinae (without hairs)                       | A          | ii          | 2     | Klemm 1995          |               | Y            |
| Tubificinae (with hairs)                          | A          | i           | 1     | "                   |               | Y            |
| <i>Gynobos</i>                                    | A          | i           | 1     | Thorp Reg 2016      |               |              |
| <i>Pisidium</i>                                   | A          | i           | 1     | Burch 1972          |               |              |
| <del>Salix Chironomidae</del>                     | L          | STND        |       |                     |               |              |
| Tanyptacinae 08270000                             | L          | i           | 1     | Cranston 2013       | imm           | N            |
| <i>Meropelopia</i>                                | L          | i           | 1     | Cran Epl 2013       |               |              |
| <i>Thienemannimyia</i> group                      | L          | iii         | 3     | "                   | imm           | N            |
| Orthoclaadiinae 08300000                          | L          | ii          | 2     | Cranston 2013       | mt, indet/imm | N            |
| <i>Parametriocnemus</i>                           | L          | ii          | 2     | Ander + 3 2013      |               |              |
| <i>Cricotopus/Orthoclaadius</i>                   | L          | i           | 1     | Ferr et al 2008     |               |              |
| Chironominae 08330000                             | L          | iii         | 3     | Cranston 2013       |               |              |
| <i>Micronsectra</i>                               | L          | xiii        | 14    | Epl et al 2013      |               |              |
| <i>Paratendipes</i>                               | L          | i           | 1     | "                   |               |              |
| <i>Polypedilum (Polypedilum) illinoense</i> group | L          | ii          | 2     | Bolton 2012         |               |              |
| <i>Rhyacotanytarsus</i>                           | L          | ii          | 2     | Epl et al 2013      |               |              |

