

**Wadeable Macroinvertebrate  
Field Data Report**

Form 3200-081 (R 8/14)

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

**Station Summary**

|                                              |                                     |                                                     |
|----------------------------------------------|-------------------------------------|-----------------------------------------------------|
| <b>Waterbody Name</b><br>Otter Creek         | <b>Waterbody ID Code</b><br>1258400 | <b>Sample ID (YYYYMMDD-CY-FD)</b><br>20180912-57-02 |
| <b>Sampling Location</b><br>US Otter Cr. Rd. |                                     | <b>Database Key</b><br>168762624                    |

|                                       |                                                         |                                                                 |                                                  |
|---------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------|
| <b>SWIMS Station ID</b><br>10051114   | <b>SWIMS Station Name</b><br>OTTER CR. US OTTER CR. RD. |                                                                 |                                                  |
| <b>Latitude</b><br>43.2781761         | <b>Longitude</b><br>-89.7862944                         | <b>Lat/Long Determination Method (circle)</b><br>SWIMS SWDV GPS | <b>Datum Used if using GPS</b><br>WGS84 or NAD83 |
| <b>Basin (WMU)</b><br>LOWER WISCONSIN |                                                         | <b>Watershed Name</b><br>HONEY CREEK                            | <b>County</b><br>SAUK                            |

**Sample and Site Descriptors**

|                                                           |                                                                       |
|-----------------------------------------------------------|-----------------------------------------------------------------------|
| <b>Sample Collector (Last Name, First)</b><br>JEAN UNMUTH | <b>Project Name</b><br>SOUTH DISTRICT NC STREAM STRATIFIED SITES 2018 |
|-----------------------------------------------------------|-----------------------------------------------------------------------|

**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                        |

|                                        |                                                      |                                            |                                    |
|----------------------------------------|------------------------------------------------------|--------------------------------------------|------------------------------------|
| <b>Total Sampling Time (min)</b><br>16 | <b>Estimated Area Sampled (m<sup>2</sup>)</b><br>6.0 | <b>Number of Samples in Composite</b><br>1 | <b>Replicate No.</b> 1 <b>of</b> 1 |
|----------------------------------------|------------------------------------------------------|--------------------------------------------|------------------------------------|

**Reason For Sampling**

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

|                                |                           |                              |                       |                                       |                                  |
|--------------------------------|---------------------------|------------------------------|-----------------------|---------------------------------------|----------------------------------|
| <b>Water Temp. (C)</b><br>21.3 | <b>D.O. (mg/l)</b><br>8.2 | <b>D.O. (% sat.)</b><br>99.0 | <b>pH (su)</b><br>8.6 | <b>Conductivity (umhos/cm)</b><br>129 | <b>Transparency (cm)</b><br>93.0 |
|--------------------------------|---------------------------|------------------------------|-----------------------|---------------------------------------|----------------------------------|

|                                                                                                                                  |                                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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 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) |
|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                  |                                                  |                                                 |
|------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------|
| <b>Measured Velocity</b><br>0.0006<br>circle units<br>m/s or f/s | <b>Average Stream Depth of reach (m)</b><br>0.20 | <b>Average Stream Width of reach (m)</b><br>3.5 |
|------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------|

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

|                                                                                                                       |                                                  |                                                 |                                              |
|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------|----------------------------------------------|
| <b>Bedrock:</b> _____                                                                                                 | <b>Boulders</b><br>(basketball or larger): _____ | <b>Rubble</b><br>(tennisball to basketball): 40 | <b>Gravel</b><br>(ladybug to tennisball): 40 |
| <b>Sand:</b> 10                                                                                                       | <b>Clay:</b> _____                               | <b>Silt/Muck:</b> _____                         | <b>Overhanging Vegetation:</b> 10            |
| <b>Aquatic Macrophytes:</b> _____ <b>Leaf Snags:</b> _____ <b>Coarse Woody Debris:</b> _____ <b>Other ( ): </b> _____ |                                                  |                                                 |                                              |

|                                                        |                                          |
|--------------------------------------------------------|------------------------------------------|
| <b>Embeddedness of Substrate at Sample Site (%)</b> 10 | <b>Canopy Cover at Sample Site (%)</b> 0 |
|--------------------------------------------------------|------------------------------------------|

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

Comments: Stream nearly completely dewatered in July, just pools with stagnant water. Rost + riffles were dry.

**Special Instructions for Laboratory**

IB=1      3B=8      1A=5      2A, 2D, 2E=6  
 3A=4      1C=4      3D, 2C, 2B=9      1D, 1E, 3C, 3E=14  
 5      14      20

Total = 51

**For Lab Use Only**

|                                     |                                                             |                                            |
|-------------------------------------|-------------------------------------------------------------|--------------------------------------------|
| Sample Sorter<br>Murphy Steinhilber | Taxonomist<br>Drmack, Jeffrey                               | Estimated Percent of Sample Sorted<br>100% |
| Date Processed<br>9/5/19            | Specimens Saved<br>Subsample archived in ABC until Nov 2022 |                                            |

100% sort

Taxonomist: Dimick, Jeffrey

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[illegible]