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

# Wadeable Macroinvertebrate Field Data Report

Form 3200-081 (R 8/14) 

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

## Station Summary

| Waterbody Name | Waterbody ID Code | Sample ID (YYYYMMDD-CY-FD) |
|---|---|---|
| POTATO RIVER | 2906200 | 20181024-26-18 |

| Sampling Location | Database Key |
|---|---|
| | 169647946 |

| SWIMS Station ID | SWIMS Station Name |
|---|---|
| 10051935 | POTATO RIVER EAST OF CASEY SAG ROAD |

| Latitude | Longitude | Lat/Long Determination Method (circle) | Datum Used if using GPS |
|---|---|---|---|
| 46.40769 | -90.45253 | (SWIMS) SWDV GPS | WGS84 or NAD83 |

| Basin (WMU) | Watershed Name | County |
|---|---|---|
| LAKE SUPERIOR | POTATO RIVER | IRON |

## Sample and Site Descriptors

| Sample Collector (Last Name, First) | Project Name |
|---|---|
| MICHAEL SHUPRYT | MACROINVERTEBRATE SPATIAL ANALYSIS |

**Sampling Device**

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

**Habitat Sampled**

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

| Total Sampling Time (min) | Estimated Area Sampled ($m^2$) | Number of Samples in Composite | Replicate No. 2 of 2 |
|---|---|---|---|
| 2 | 2 | 2 | |

**Reason For Sampling**

- [ ] Least Impacted Reference
- [ ] Baseline
- [ ] Impact / Treatment Site
- [ ] Control Site
- [ ] Trend
- [X] Other: _____

| 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 or f/s) | Average Stream Depth of reach (m) | Average Stream Width of reach (m) |
|---|---|---|
| | | |

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

Bedrock: _____ Boulders (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 (%)** _____

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

Comments
Duplicate of "17"

Special Instructions for Laboratory

| For Lab Use Only | | |
|---|---|---|
| Sample Sorter: Kyle Wilcox | Taxonomist: Dimick, Jeffrey | Estimated Percent of Sample Sorted: 33% |
| Date Processed: 7/12/19 | Specimens Saved: Subsample archived in lab until Sept 2022 | |

E2=73 C2=22
A3
E3=25 E1=27 147

**Wisconsin Department of Natural Resources**
ABL SampleNum: **20181024-26-18**
Taxonomist: Dimick, Jeffrey

Waterbody: **Potato River**
SWIMS Database Key: **169647946**



| Taxa | Life Stage | Bench Tally | Count | Taxonomic Reference | Condition | Unique Taxon |
|---|---|---|---|---|---|---|
| Paracapnia angulata | L | 1 | 1 | Hitch 1974 | | |
| Acroneuria | L | / | 5 | Hils 1995 | imm | N |
| A. lycorias | L | 1 | 1 | Hitch 1974 | | |
| Isoperla signata | L | III | 3 | Hils 1982 | | |
| Oemopteryx glacialis | L | II | 2 | Hils 1995 | | |
| Taeniopteryx | L | 1 | 1 | " | imm | |
| Acentrella turbida | L | II | 2 | Klub 2016 | | |
| Ephemerella invaria | L | II | 2 | " | | |
| Eurylophella | L | II | 2 | " | imm | |
| Teloganopsis deficiens | L | 1 | 1 | " | | |
| Epeorus vitreus | L | IIII | 4 | " | | |
| Rhithrogena jejuna | L | -II | 7 | " | | |
| Stenacron | L | 1 | 1 | " | imm | |
| Leucrocuta | L | -I | 6 | " | | |
| Maccaffertium | L | III | 3 | " | dam/imm | N |
| M. modestum | L | 1 | 1 | " | | |
| Paraleptophlebia | L | -I | 6 | " | dam | N |
| P. mollis | L | 1 | 1 | " | | |
| Gomphidae | L | 1 | 1 | Need et al 2000 | imm | |
| Glossosoma | L | 1 | 1 | Hils 1995 | imm | |
| Cheumatopsyche | L | IIII | 4 | " | | |
| Ceratopsyche | L | 1 | 1 | " | imm | N |
| C. morosa morosa form | L | II | 2 | Schm Hils 1986 | | |
| Leucotrichia pictipes | L | III | 4 | Hils 1995 | | |
| Chimarra | L | 1 | 1 | " | imm | |
| Psychomyia flavida | L | IIII | 4 | " | | |
| Neophylax | L | III | 3 | " | imm | |
| Nyctiophylax serricornis | L | II | 2 | Neu 1966 | | |
| Optioservus | L | -IIII | 9 | Hils Schm 1992 | imm | N |
| O. trivittatus L, 27 A, 2 | LA | 0-IIII | 29 | " | | |
| Stenelmis crenata | A | III | 3 | " | | |
| Hemerodromia | L | 1 | 1 | Coun Merr 2008 | | |
| Pseudolimnophila | L | 1 | 1 | Hils 1995 | | |
| | | | | | | |
| Naidinae | A | III | 3 | Brinkeld 1991 | | |
| Lumbriculus | A | 8-1 | 46 | Thorp Rog 2016 | | |
| Megadrili = Metasynophora | A | 1 | 1 | " | | |
| Sphaerium | A | 1 | 1 | Mackie 2007 | | |

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|---|---|---|---|---|---|---|
| ~~Split A2 Chironomidae~~ | L | ~~Omit JJP~~ | | | | |
| Corynoneura | L | III | 3 | And +3 2013 | | |
| Lopescladius | L | II | 2 | " | | |
| Thienemanniella | L | 1 | 1 | " | sm m | |
| Conchapelopia 08270000 | L | 1 | 1 | Cran Epl 2013 | | |
| JJP ~~Thiene~~ Orthocladiinae 08300000 | L | 1 | 1 | Cranston 2013 | sm m | N |
| Orthocladius | L | 1 | 1 | And + 3 2013 | sm m | |
| Rheosmittia | L | / | 5 | " | | |
| Tvetenia discoloripes group | L | 1 | 1 | Bode 1983 | | |
| Cladotanytarsus | L | 1 | 1 | Epl et al 2013 | | |
| Microtendipes pedellus group | L | 1 | 1 | " | | |
| M. rydalensis group | L | II | 2 | " | | |
| Polypedilum (Uresipedilum) aviceps | L | / | 5 | Bolton 2012 | | |
| Rheotanytarsus | L | II | 2 | Epl et al 2013 | | |
| Sublettea | L | 1 | 1 | " | | |
| Tanytarsus | L | II | 2 | " | | |