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 | 20181024-26-17 |

| **Sampling Location** | **Database Key** |
|---|---|
| | 169647931 |

| **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 | 2 | 2 | 1 of 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)** |
|---|---|---|---|---|---|
| 3.3 | 12.9 | 96.6 | 7.2 | 60 | >120 |

**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 | **Average Stream Depth of reach (m)** | **Average Stream Width of reach (m)** |
|---|---|---|---|
| 0.472 | (m/s) or f/s | 0.54 | ~10 |

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

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 70 Gravel (ladybug to tennisball): 20

Sand: 10 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____

Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (_____): _____

**Embeddedness of Substrate at Sample Site (%)** 10 **Canopy Cover at Sample Site (%)** 10

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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 "18"

Special Instructions for Laboratory

| For Lab Use Only | | |
|---|---|---|
| Sample Sorter: Kayla w. Ices | Taxonomist: Dimick, Jeffrey | Estimated Percent of Sample Sorted: 90% |
| Date Processed: 9/12/19 | Specimens Saved: 126 | |

Subsample archived in ABL until Sept 2022

D1= 48 E1= 65
A3= C1=
B2=
C2=13

126

**Wisconsin Department of Natural Resources**
ABL SampleNum: **20181024-26-17**
Taxonomist: Dimick, Jeffrey

Waterbody: **Potato River**
SWIMS Database Key: **169647931**



| Taxa | Life Stage | Bench Tally | Count | Taxonomic Reference | Condition | Unique Taxon |
|---|---|---|---|---|---|---|
| Allocapnia | L | I | 1 | Hils 1995 | | |
| Paracapnia angulata | L | / | 5 | Hitch 1974 | | |
| Acroneuria | L | II | 2 | Hils 1995 | imm | N |
| A. lycorias | L | II | 2 | Hitch 1974 | | |
| Isoperla signata | L | IIII | 4 | Hils 1982 | | |
| Taeniopterygidae | L | II | 2 | Hils 1995 | imm | N |
| Oemopteryx glacialis | L | II | 2 | " | | |
| Taeniopteryx | L | I | 1 | " | imm | N |
| T. nivalis | L | I | 1 | Full Stew 1980 | | |
| Baetis intercalaris | L | I | 1 | Klub 2016 | | |
| Ephemerella invaria | L | I | 1 | " | | |
| Eurylophella | L | II | 2 | " | imm | |
| Epeorus vitreus | L | II | 2 | " | | |
| Rhithrogena jejuna | L | X | 10 | " | | |
| Leucrocuta | L | XI | 11 | " | | |
| Maccaffertium | L | I | 1 | " | imm | Y |
| M. vicarium | L | -IIII | 9 | " | | |
| Paraleptophlebia | L | III | 3 | " | dam | N |
| P. mollis | L | II | 2 | " | | |
| Isonychia | L | I | 1 | " | imm | |
| Glossosoma intermedium | L | I | 1 | WymMor 2000 | | |
| Chematopsyche | L | II | 2 | Hils 1995 | | |
| Ceratopsyche | L | II | 2 | " | imm | n=1, Y |
| C. morosa morosa form | L | / | 5 | SchmHils 1986 | | |
| C. slossonae | L | I | 1 | " | | |
| Lepidostoma | L | I | 1 | Hils 1995 | | |
| Chimarra | L | I | 1 | " | imm | |
| Psychomyia flavida | L | I | 1 | " | | |
| Neophylax | L | I | 1 | " | imm | |
| Optioservus | L | III | 3 | Hils Schm 1992 | imm | N |
| O. trivittatus L, 17 A, 4 | L, A | IIII | 21 | " | | |
| Stenelmis | L | III | 3 | " | | |
| Bezzia/Palpomyia | L | I | 1 | Hils 1995 | | |
| Antocha | L | II | 2 | " | | |
| Pseudolimnophila | L | III | 3 | " | | |
| | | | | | | |
| Oreoreates virilis | A | I | 1 | Hobbs, Jass 1988 | | |
| Branchiobdellida | A | I | 1 | ThorpRog 2016 | | |

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|---|---|---|---|---|---|---|
| Naidinae | A | I | 1 | Brinkhurst 1971 | | |
| Lumbriculus | A | 01 | 25 | Thorp Rog 2016 | | |
| Ferrissia rivularis | A | II | 2 | " | | |
| Pisidium | A | III | 3 | Mackie 2007 | | |
| | | | | | | |
| ~~Split Az Chironomidae~~ | ~~L~~ | ~~x-11-10~~ | | | | |
| Corynoneura | L | 1 | 1 | And+3 2013 | | |
| Thienemanniella group | L | 1 | 1 | Cran Epl 2013 | imm | |
| Nanocladius | L | 1 | 1 | And+3 2013 | imm | |
| Orthocladius (Orthocladius) | L | 1 | 1 | " | | |
| Rheosmittia | L | 1 | 1 | " | | |
| Cladotanytarsus | L | 1 | 1 | Epl et al 2013 | | |
| Microtendipes pedellus group | L | -1 | 6 | " | | |
| Paratanytarsus longistilus | L | 1 | 1 | " | | |
| Polypedilum (Polypedilum) illinoense group | L | 1 | 1 | Bolton 2012 | | |
| P. (Uresipedilum) aviceps | L | II | 2 | " | | |
| Tanytarsus | L | II | 2 | Epl et al 2013 | | |