

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

Station Summary

| | | | |
|---|---|---|--|
| Waterbody Name EMMONS CREEK | | Waterbody ID Code | Sample ID (YYYYMMDD-CY-FD) 20180628-50-9 |
| Sampling Location R55-R-68m-2g-062818 | | Database Key 159426740 | |
| SWIMS Station ID 10049350 | SWIMS Station Name EMMONS CREEK - CONTROL REACH NEAR STRATTON LAKE RD | | |
| Latitude | Longitude | Lat/Long Determination Method (circle) SWIMS SWDV GPS | Datum Used if using GPS WGS84 or NAD83 |
| Basin (WMU) WOLF RIVER | Watershed Name WAUPACA RIVER | County PORTAGE | |

Sample and Site Descriptors

| | |
|--|---|
| Sample Collector (Last Name, First) DAVID A BOLHA, MICHAEL P SHUPRYT | Project Name EMMONS CREEK DISCHARGE REDUCTION MI FY18 |
|--|---|

Sampling Device

D-Frame Kick Net
 Surber Sampler
 Eckman
 Ponar
 Artificial Substrate
 Hess Sampler
 Other: core

Habitat Sampled

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

| | | | |
|----------------------------------|---|---------------------------------------|-------------------------------------|
| Total Sampling Time (min) | Estimated Area Sampled (m²) | Number of Samples in Composite | Replicate No. _____ of _____ |
|----------------------------------|---|---------------------------------------|-------------------------------------|

Reason For Sampling

Least Impacted Reference
 Baseline
 Impact / Treatment Site
 Control Site
 Trend
 Other: Special Project

| | | | | | |
|------------------------|--------------------|----------------------|----------------|--------------------------------|--------------------------|
| Water Temp. (C) | D.O. (mg/l) | D.O. (% sat.) | pH (su) | Conductivity (umhos/cm) | Transparency (cm) |
|------------------------|--------------------|----------------------|----------------|--------------------------------|--------------------------|

| | |
|---|---|
| Water Color <input type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained | Estimated Stream Velocity (m/s) <input 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 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 (%)** _____

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 | | | |
| | | | | Point Source - Specify: | | | |
| | | | | Pasturing of Livestock | | | |
| Physical | | | | Runoff: - Barnyard | | | |
| Bank Erosion | | | | - Construction | | | |
| Channelization: - Upstream | | | | - Cropland | | | |
| - Downstream | | | | - Urban | | | |
| Hydraulic Scour / Channel Incision | | | | Septic Systems | | | |
| Impoundment: - Upstream | | | | Tile Drainage - Organic Soils | | | |
| - Downstream | | | | - Mineral Soils | | | |
| Low Flow | | | | Springs | | | |
| Sedimentation | | | | Tributary(s) | | | |
| Sludge | | | | Wetland | | | |
| Thermal | | | | Other - Specify: | | | |
| Turbidity | | | | | | | |
| Other - Specify: | | | | | | | |

Comments

Special Instructions for Laboratory

For Lab Use Only

| | | | | | |
|----------------|--------------|-----------------|--|------------------------------------|------|
| Sample Sorter | Sam Camarcho | Taxonomist | Dimick, Jeffrey | Estimated Percent of Sample Sorted | 100% |
| Date Processed | 1/8/19 | Specimens Saved | Subsample archived in ABL until Mar 2022 | | |

59 Specs

University of Wisconsin - Oshkosh
 UW-O SampleNum: RSS-R-68m-2q-062818
 ABL SampleNum: 20180628-50-06

Waterbody: Emmons Creek
 SWIMS Database Key: 159426740
 Taxonomist: Dimick, Jeffrey

| Taxa | Life Stage | Bench Tally | Count | Taxonomic Reference | Condition | Unique Taxon |
|---|------------|-------------|-------|---------------------|-----------|--------------|
| <i>Brachycentrus occidentalis</i> | L | III | 4 | Hils 1985 | | |
| <i>Problezsa</i> | L | I | 1 | Hils 1985 | | |
| <i>Simulium vittatum</i> species complex 08110217 | L | I | 1 | Ali et al 2001 | | |
| Chironomidae 08250000 | L | DI | 31 | Cost Men 2008 | | |
| Chironomidae 08250002 | P | I | 1 | Merrill 2008 | | |
| Gammarus capitata | A | III | 3 | Hils 1972 | imm | |
| Mermithidae | A | II | 2 | Trump 2014 | imm | |
| <i>Amphipoda</i> <i>cihellata</i> | A | I | 1 | " | dam | N |
| Naididae | A | I | 1 | Bainfeld 1991 | | |
| Tubificinae (without hairs) | A | II | 7 | Klemm 1985 | | Y |
| Tubificinae (with hairs) | A | XIII | 25 | " | | |
| Megadrili = <i>Metagynophora</i> | A | II | 3 | Trump 2016 | | |
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<2 taxa, TVAL ≤ 2.0