

Instructions: Bold fields must be completed.

Station Summary

| | | |
|--|------------------------------------|---|
| Waterbody Name BADGER MILL CREEK | Waterbody ID Code 888100 | Sample ID (YYYYMMDD-CY-FD) 20221129-13-02 |
|--|------------------------------------|---|

| | |
|---|----------------------------------|
| Sampling Location ~ 25m US of STH 69 Bridge | Database Key 330736525 |
|---|----------------------------------|

| | |
|-------------------------------------|---|
| SWIMS Station ID 10011966 | SWIMS Station Name BADGER MILL CREEK - STH. 69 UPSTREAM TO FENCELINE IN PASTURE |
|-------------------------------------|---|

| | | | |
|-----------------------------|-------------------------------|--|---|
| Latitude 42.96463 | Longitude -89.54780 | Lat/Long Determination Method (circle) SWIMS SWDV GPS | Datum Used if using GPS WGS84 or NAD83 |
|-----------------------------|-------------------------------|--|---|

| | | |
|--|--|-----------------------|
| Basin (WMU) SUGAR - PECATONICA | Watershed Name UPPER SUGAR RIVER | County DANE |
|--|--|-----------------------|

Sample and Site Descriptors

| | |
|---|---|
| Sample Collector (Last Name, First) CAMILLE BRUHN | Project Name IMPACT OF NEW ZEALAND MUDSNAILS ON SOUTHERN WI |
|---|---|

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) 2 | Estimated Area Sampled (m²) 1 | Number of Samples in Composite 1 | Replicate No. 1 of 1 |
|---------------------------------------|--|--|------------------------------------|

Reason For Sampling

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

| | | | | | |
|-------------------------------|-----------------------------|-------------------------------|------------------------|--|---------------------------------|
| Water Temp. (C) 8.8 | D.O. (mg/l) 12.71 | D.O. (% sat.) 109.9 | pH (su) 7.71 | Conductivity (umhos/cm) 1292 | Transparency (cm) 100 |
|-------------------------------|-----------------------------|-------------------------------|------------------------|--|---------------------------------|

| | |
|--|--|
| Water Color <input checked="" 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 checked="" 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) 0.15 | Average Stream Width of reach (m) 4 |
|--|--|---|

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 90 Gravel (ladybug to tennisball): 5
 Sand: 5 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (): _____

Embeddedness of Substrate at Sample Site (%) 0
Canopy Cover at Sample Site (%) 90

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 | Watershed | Factors that may be influencing Water Resource Integrity | Local | Watershed |
|--|-------|-----------|--|-------|-----------|
| 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: | | |
| Physical | | | Pasturing of Livestock | | |
| Bank Erosion | | | Runoff: - Barnyard | | |
| Channelization: - Upstream | | | - Construction | | |
| - Downstream | | | - Cropland | | |
| Hydraulic Scour / Channel Incision | | | - Urban | | |
| Impoundment: - Upstream | | | Septic Systems | | |
| - Downstream | | | Tile Drainage - Organic Soils | | |
| Low Flow | | | - Mineral Soils | | |
| Sedimentation | | | Springs | | |
| Sludge | | | Tributary(s) | | |
| Thermal | | | Wetland | | |
| Turbidity | | | Other - Specify: | | |
| Other - Specify: | | | | | |

Comments

Special Instructions for Laboratory

B2q2-1 | C3q3-3 | B2q4-3 | D2q1-4 | A3q2-1 | C4q1-2 | End
 q1-5 | q1-4 | q2-1 | q4-4 | q4-2 | q4-4 | 6:40 pm
 q3-8 | q4-3 | q3-4 | q3-4 | q3-0 | q3-3
 q4-5 | q2-2 | q1-5 | q2-2 | q1-2 | q2-6

Vial 1 ↓
 Shells sorted are only from A4 & A1

Time = 20 hrs

| For Lab Use Only | | |
|------------------------------------|------------------------|--|
| Sample Sorter Lydia Dobberstein | Taxonomist | Estimated Percent of Sample Sorted 100% |
| Date Processed 3/22/2023 | Specimens Saved 207 | |

Start 1:45 pm
 A4q2-2 | A1q4-3 | A2q2-0 | D1q2-5 | C2q4-1 | D3q1-5 | B4q4-5 | O4q3-3 | Stop 8:30 pm | C1q3-4 | B1q3-2
 q3-4 | q1-7 | q3-3 | B-3 | q1-2 | q2-3 | q2-2 | q2-4 | q4-5 | q2-5
 q4-4 | q3-5 | q4-0 | q1-2 | q2-3 | q3-3 | q1-4 | q1-5 | Start 11:10 | q1-2 | q1-1
 q1-1 | q2-3 | q1-2 | q4-6 | q3-6 | q4-7 | q3-1 | q4-3 | 3:10 | q2-2 | q1-1
 4:00 pm

Wisconsin Department of Natural Resources

ABL Sample Num: 20191129-13-02

Taxonomist: Dimick, Jeffrey

Waterbody: Badger Mill Creek

SWIMS Database Key: 330736525

| Taxa | Life Stage | Benthic Tally | Count | Taxonomic Reference | Condition | Unique Taxon |
|--|------------|--------------------|-------|---------------------|-----------|--------------|
| Baetis brunneolus | L | I | 1 | KWB 2016 | | |
| Coenagrionidae | L | I | 1 | MCB 2019 | imm | |
| Ceratopsyche branta | L | I | 1 | Schm Hils 1986 | | |
| Hydropsyche betteni | L | I | 1 | " | | |
| Optioservus fastidius | L | 45 A, 1 | 6 | Hils Schm 1992 | | |
| Orthocladius (Orthocladius) | P | I | 1 | Coff et al 1986 | | |
| Procladius | L | III | 3 | Hils 1995 | | |
| Simulium vittatum species complex | L | 80 III | 83 | Adler et al 2004 | | |
| Gammarus pseudolimnoides | A | 80 III | 54 | Molsinger 1972 | | |
| Copepoditea intermedia | A | XIII | 13 | Williams 1972 | | |
| Potamopygus antipodanum | A | 5656 | 5656 | Thorp Pags 2016 | | |
| Sphaerium | A | I | 1 | " | imm | |
| Tubificonae (with hairs) | A | I | 1 | Kath Bonn 1999 | | Y |
| Tubificonae (without hairs) | A | I | 1 | " | | Y |
| Hydrates | A | III | 3 | Peck et al 1990 | | |
| Spilota chironomidae | L | 8-11-11 | | | | |
| Brillia | L | I | 1 | Ander et al 2013 | imm | |
| Parakrieffellia | L | III | 3 | " | | |
| Tritenia bavarica group | L | I | 1 | Bode 1983 | | |
| Picrotendipes | L | -X | 10 | Ander et al 2013 | | |
| Cricotopus (Cricotopus) fremulus group | L | II | 2 | " | | |
| C. (C.) trifascia group | L | I | 1 | " | | |
| Cladotanytarsus | L | I | 1 | " | | |
| Harnischia | L | I | 1 | " | | |
| Microsectra | L | I | 5 | " | | |
| Paratanytarsus | L | I | 1 | " | mt in det | N |
| P. species A | L | II | 2 | Hils impetol | | |
| P. species B | L | III | 3 | " | | |
| Paratendipes | L | III | 8 | Ander et al 2013 | | |
| Polypedium (Polypedium) illinoense group | L | I | 1 | Bolton 2012 | | |
| P. (P.) flavum | L | III | 3 | " | | |
| Rheotanytarsus | L | III | 4 | Ander et al 2013 | | |

23 taxa, TVAL ≤ 2.0