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)**
BADFISH CREEK	799500	20181017-54-02

Sampling Location: 60 m downstream of N. Riley Rd

Database Key: 169819069

SWIMS Station ID	**SWIMS Station Name**
10029969	BADFISH CREEK AT RILEY ROAD

Latitude	**Longitude**	**Lat/Long Determination Method (circle)**	**Datum Used if using GPS**
42.83116	89.21020	SWIMS SWDV (GPS)	WGS84 or NAD83

Basin (WMU)	**Watershed Name**	**County**
LOWER ROCK	BADFISH CREEK	ROCK

Sample and Site Descriptors

Sample Collector (Last Name, First)	**Project Name**
AMRHEIN, JAMES	NEVIN HATCHERY ADAPTIVE MANAGEMENT MONITORINC

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.** ____ **of** ____
5	2	1	

Reason For Sampling

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

Water Temp. (C)	**D.O. (mg/l)**	**D.O. (% sat.)**	**pH (su)**	**Conductivity (umhos/cm)**	**Transparency (cm)**
11.0	10.37	93.8	8.21	965	

Water Color

- [ ] Clear
- [X] Turbid
- [ ] Stained

Estimated Stream Velocity (m/s)

- [ ] Slow (< 0.15 m/s)
- [ ] Moderate (0.15 m/s - 0.5 m/s)
- [X] 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): 30 Gravel (ladybug to tennisball): 50

Sand: 20 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 (%)** 0

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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

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter	Taxonomist	Estimated Percent of Sample Sorted
Kayla Wilcox	Dimick, Jeffrey	60%
Date Processed	**Specimens Saved**	
6/17/19	129	

A2 = 10 C1 = } 51 A1 = 6 708
B2 = 8 A3 } E2 = 9 129
E1 = 21 C2 = E3 = 24

Subsample archived in ABL until Aug 2022

Wisconsin Department of Natural Resources
ABL SampleNum: **20181017-54-02**
Taxonomist: Dimick, Jeffrey

Waterbody: **Badfish Creek**
SWIMS Database Key: **169819069**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Baetis brunneicolor	L	II	2	Klub 2016		
B. flavistriga speeves complex	L	II	2	"		
Acentrella parvula	L	-IIII	9	"		
Cheumatopsyche	L	III	3	Hils 1995		
Hydropsyche	L	I	1	"	imm	N
H. betteni	L	x I	11	Schm Hils 1986		
ceratopsyche	L	II	2	Hils 1995		
C. bronta	L	0	20	Schm Hils 1986		
C. morosa bifida form	L	I	1	"		
Optioservus fastiditus	A	I	1	Hils Schm 1992		
Stenelmis	L	-II	7	"		N
S. crenata	A	-	5	"		
Simulium vittatum species complex 0811027	L	-	5	Adl et al 2004		
Gammarus pseudolimnaeus	A	II	2	Hols 1972		
Caecidotea intermedia	A	III	3	Will 1972		
Mermithidae	A	III	3	Thorp Rog 2016	imm	
Naidinae	A	II	2	Brinkhurst 1994		
Tubificinae (without hairs)	A	x I	11	Klemm 1985		
Megadrili = Metagynophora	A	II	2	Thorp Rog 2016		
~~Split A2a Chironomidae~~	~~L~~	~~8x (1)~~				
~~Split A2b Chironomidae~~	~~L~~	~~II (2)~~				
Microtendipes pedellus group	L	-	5	Epl et al 2013		
Parakiefferiella	L	I	1	And + 3 2013		
Thienemanniella xena	L	I	1	Bolton 2012		
Orthocladius (Orthocladius)	L	II	2	And + 3 2013		
Cricotopus (Cricotopus) trifascia group	L	II	2	"		
Cladotanytarsus	L	0	20	Epl et al 2013		
Polypedilum (Tripodura) halterale group	L	III	4	Bolton 2012		
P. (Uresipedilum) flavum	L	x-III	18	"		
Rheotanytarsus	L	I	1	Epl et al 2013		
Stictochironomus	L	III	3	"		

<3 taxa, TVAL ≤2.0