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)**
CAVES CREEK	166100	20201008-39-02

Sampling Location	**Database Key**
	250550801

SWIMS Station ID	**SWIMS Station Name**
10017030	CAVES CREEK AT 5TH AVE (DS OF CULVERT)

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

Basin (WMU)	**Watershed Name**	**County**
UPPER FOX	MONTELLO RIVER	MARQUETTE

Sample and Site Descriptors

Sample Collector (Last Name, First)	**Project Name**
DAVID BOLHA	NER LONG-TERM TREND WADEABLE REFERENCE STREAM

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** ____
3	1.5	1	

Reason For Sampling

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

Water Temp. (C)	**D.O. (mg/l)**	**D.O. (% sat.)**	**pH (su)**	**Conductivity (umhos/cm)**	**Transparency (cm)**
11.1	9.8	90.6	7.8	312	120

Water Color

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

Estimated Stream Velocity (m/s)

- [ ] Slow (< 0.15 m/s)
- [X] 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)**
	0.2	2.0

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 20 Gravel (ladybug to tennisball): 60

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
Biological		
Algae: - Diatoms / Periphyton	N	N
- Filamentous Algae	N	N
- Planktonic Algae	N	N
Iron Bacteria	N	N
Macrophytes	N	N
Slimes	N	N
Other - Specify:		
Physical		
Bank Erosion	N	N
Channelization: - Upstream	N	N
- Downstream	N	N
Hydraulic Scour / Channel Incision	N	N
Impoundment: - Upstream	N	N
- Downstream	N	N
Low Flow	N	N
Sedimentation	PL	PL
Sludge	N	N
Thermal	N	N
Turbidity	N	N
Other - Specify:		

Factors that may be influencing Water Resource Integrity	Local	Water-shed
Chemical		
Chlorine	N	N
Dissolved Oxygen	N	N
Nutrients (P, N...)	N	N
Toxics: - Inorganic (Metals)	N	N
- Organic (PCBs, pesticides...)	N	N
Other - Specify:		
Sources of Stream Impacts		
Bank Erosion	N	N
Point Source - Specify:	N	N
Pasturing of Livestock	N	N
Runoff: - Barnyard	N	N
- Construction	N	N
- Cropland	N	N
- Urban	N	N
Septic Systems	N	N
Tile Drainage - Organic Soils	N	N
- Mineral Soils	N	N
Springs	N	PL
Tributary(s)	PL	PL
Wetland	~~N~~ PL	PL
Other - Specify:		

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter	Taxonomist	Estimated Percent of Sample Sorted
RRV	Dimick, Jeffrey	2.0%
Date Processed	**Specimens Saved**	
11/30/2021	Subsample archived in ABL until Feb 2025	

C1 D4
Q1 113 Q2→Q3-16 (129)
Q4 Q3
Q2 Q1
Q3 Q4

$\frac{1.25}{64} \times 100 = 1.95$

Wisconsin Department of Natural Resources
ABL SampleNum: **20201008-39-02**
Taxonomist: Dimick, Jeffrey

Waterbody: **Caves Creek**
SWIMS Database Key: **250550801**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Baetis brunneicolor	L	-IIII	9	Klub 2016		
1/2 Maccaffertium vicarium	L	II	2	"		
5/18 Brachycentrus americanus	L	x-1	16	Hils 1985		
3/20 B. occidentalis	L	II	2	"		
4/29 Glossosoma	L	IIII	4	MCB 2019	imm	
Helicopsyche borealis	L	I	1	Hils 1985		
Hydropsychidae	L	-	5	MCB 2019	imm	N
Ceratopsyche	L	I	1	Hils 1985	dam	N
C. slossonae	L	-II	7	Schm Hils 1986		
Cheumatopsyche	L	x	10	MCB 2019		
Hydropsyche betteni	L	-III	8	Schm Hils 1986		
Hydroptila	L	II	2	Wiggins 1979		
5/27 Lepidostoma	L	III	3	MCB 2019		
Optioservus	L	x-1	16	"	imm	N
O. fastiditus	L	IIII	4	Hils Schm 1992		
Stenelmis crenata	A	I	1	"		
Orthocladiinae	P	I	1	MCB 2019	dam	N
Hemerodromia	L	II	2	"		
Simulium tuberosum species complex	L	I	1	Adler et al 2004		
S. vittatum species complex 08.10.18	L	I	1	"		
Gammarus pseudolimnaeus	A	-1	6	Hols 1972		
Caecidotea	A	II	2	Thorp Rog 2016	imm	
Dugesiidae	A	I	1	"		
Pisidium	A	II	2	"		
Naidinae	A	III	4	KathBrin 1998		
Antocha	L	I	1	MCB 2019		
~~Split A2~~	L	x-1				
Eukiefferiella claripennis group	L	II	2	And et al 2013		
Parametriocnemus	L	I	1	"		
Tvetenia bavarica group	L	IIII	5	Bode 1983		
Cladotanytarsus	L	II	2	And et al 2013		
Rheotanytarsus	L	IIII	4	"		
Orthocladiinae (Cricotopus/Orthocl. n=1)	L	II	2	"	imm	n=1,Y
Thienemanniella	L	II	2	"	imm	
Polypedilum (Uresipedilum) aviceps	L	II	2	Bolton 2012		

>3 taxa, TVAL ≤ 2.0

27 > (0.1 x 113)