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	20191008-39-02

Sampling Location	**Database Key**
@ 5th Ave	208654177

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**
Same as	Station	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** ____
2	1.0	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)**
11.5	9.4	87.6	7.8	285.9	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	1.8

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 40 Gravel (ladybug to tennisball): 50

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

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

Embeddedness of Substrate at Sample Site (%) 40 **Canopy Cover at Sample Site (%)** 100

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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	PL	PL
Tributary(s)	N	N
Wetland	N	N
Other - Specify:		

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter: Cowsh, Natalie	Taxonomist: Dimick, Jeffrey	Estimated Percent of Sample Sorted: 13 TO ~~12.5~~ 15 %
Date Processed: 10/15/2020	Specimens Saved: Subsample archived in ABL until Dec 2023	

E3 - 96

A3 - 93

189

Wisconsin Department of Natural Resources
ABL SampleNum: **20191008-39-02**
Taxonomist: Dimick, Jeffrey

Waterbody: **Caves Creek**
SWIMS Database Key: **208654177**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Baetis brunneicolor	L	×-	15	Klub 2016		
B. flavistriga species complex	L	"	2	"		
1/8 Brachycentrus americanus	L	-III	8	Wils 1985		
2/9 B. occidentalis	L	I	1	Wils 1985	~~imm~~	
3/20 Glossosoma	L	IIII III	8	MerrSummB 2019	imm	N
(4/25 Protoptila	L	-	5	"		
Glossosoma intermedium	L	III	3	WynMar 2000		
Helicopsyche borealis	L	-((((	9	Wils 1995		
Helicopsyche	P	I	1	MerrSummB 2019		N
Hydropsychidae	L	I	1	"	imm	N
Ceratopsyche slossonae	L	-II	7	SchmWils 1986		
Cheumatopsyche	L	×I	11	MerrSummB 2019		
Hydropsyche	L	-	5	Wils 1995	imm	N
H. betteni	L	×II	12	SchmWils 1986		
5/30 Lepidostoma	L	-	5	MerrSummB 2019		
Philopotamidae	L	I	1	"	imm	
~~1/1~~ Neophylax	L	×III	13	"	imm	
Optioservus	L	×III	28	"	imm	N
O. fastiditus 2, II A, 2	2,A	×III	13	HilsSchm 1992		
Stenelmis	L	I	1	MerrSummB 2019		
6/31 Atherix variegata	L	I	1	Wils 1995		
Tvetenia	P	I	1	MerrSummB 2019		N
Simulium vittatum species complex 08110218	L	((((	4	Adler et al 2004		
Antocha	L	III	3	MerrSummB 2019		
Dicranota	L	I	1	"		
Gammarus pseudolimnaeus	A	×-IIII	19	Nols 1972		
Caecidotea racovitzai racovitzai	A	IIII	4	Will 1972		
Corynoneura	L	I	1	Andersen 2013		
Eukiefferiella claripennis group	L	II	2	"		
Tvetenia bavarica group	L	I	1	Bode 1983		
Rheotanytarsus	L	I	1	Andersen et al 2013		

>3 taxa, TVAL ≤ 20
31 < (0.1 × 174)