

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name CAVES CREEK		Waterbody ID Code 166100	Sample ID (YYYYMMDD-CY-FD) 20171027-39-01
Sampling Location			Database Key 149253183
SWIMS Station ID 10017030		SWIMS Station Name CAVES CREEK AT 5TH AVE (DS OF CULVERT)	
Latitude 43.92932	Longitude -89.522606	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
Basin (WMU) UPPER FOX		Watershed Name MONTELLO RIVER	County MARQUETTE

Sample and Site Descriptors

Sample Collector (Last Name, First) DAVID BOLHA	Project Name NER LONG-TERM TREND WADEABLE REFERENCE STREAMS
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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) 3	Estimated Area Sampled (m²) 15	Number of Samples in Composite 1	Replicate No. _____ of _____
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Reason For Sampling

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

Water Temp. (°C) 7.3°C 45.2°F	D.O. (mg/l) 8.3	D.O. (% sat.) 69.5	pH (su) 7.7	Conductivity (umhos/cm) 341.3	Transparency (cm) 120
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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)
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Measured Velocity circle units m/s or f/s	Average Stream Depth of reach (m) 0.2	Average Stream Width of reach (m) 2.5
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Composition of Substrate Sampled (Percent):

Bedrock: _____
 Boulders (basketball or larger): _____
 Rubble (tennisball to basketball): 10
 Gravel (ladybug to tennisball): 80
 Sand: 10
 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	N	N	Chlorine	N	N
- Filamentous Algae	N	N	Dissolved Oxygen	N	N
- Planktonic Algae	N	N	Nutrients (P, N...)	N	N
Iron Bacteria	N	N	Toxics: - Inorganic (Metals)	N	N
Macrophytes	N	N	- Organic (PCBs, pesticides...)	N	N
Slimes	N	N	Other - Specify:		
Other - Specify:			Sources of Stream Impacts		
			Bank Erosion	N	N
			Point Source - Specify:	N	N
Physical			Pasturing of Livestock	N	N
Bank Erosion	N	N	Runoff: - Barnyard	N	N
Channelization: - Upstream	N	N	- Construction	N	N
- Downstream	N	N	- Cropland	N	PL
Hydraulic Scour / Channel Incision	N	N	- Urban	N	N
Impoundment: - Upstream	N	N	Septic Systems	N	N
- Downstream	N	N	Tile Drainage - Organic Soils	N	N
Low Flow	N	N	- Mineral Soils	N	N
Sedimentation	PL	PL	Springs	N	PL
Sludge	N	N	Tributary(s)	PL	PL
Thermal	N	N	Wetland	PL	PL
Turbidity	N	N	Other - Specify:		
Other - Specify:					

Comments

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter Murphy steminger	Taxonomist Dimick, Jeffrey	Estimated Percent of Sample Sorted 70%
Date Processed 10/27/18	Specimens Saved Subsample archived in dBL until Jan 2022	

3 E 198

Total = 198

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Baetis tricaudatus</i>	L	"	2	Kieh 2016		
<i>Maccasterium</i>	L	"	2	"	imm	N
<i>M. vicarium</i>	L	1	1	"		
<i>Brachycentrus americanus</i>	L	0-11	27	Hils 1985		
<i>B. occidentalis</i>	L	1	1	"		
Hydropsychidae	L	1	1	Hils 1995		
<i>Cheumatopsyche</i>	L	0-11	22	"		
<i>Hydropsyche betteni</i>	L	-	5	Schm Hils 1986		
<i>Ceratopsyche</i>	L	"	2	Hils 1995		
<i>C. slossonae</i>	L	x-1	16	Schm Hils 1986		
<i>C. sparna</i>	L	1	1	"		
<i>Lepidostoma</i>	L	1	1	Hils 1995		
<i>Oecetis</i>	L	1	1	"	imm	
<i>Platycentropus amicus</i>	L	1	1	Wigg 1996		
Sti <i>Philopotamidae</i>	L	1	1	Hils 1995	imm	N
<i>Chimarra aterrima</i>	L	"	2	Hils 1982		
<i>Neophylax</i>	L	-1111	9	Hils 1995	imm	
<i>Optiosepus</i>	L	x-111	18	Hils Schm 1992	imm	N
<i>O. fastidius</i>	L, A	x-11	12	"		
<i>Hemerodromia</i>	L	"	2	Court Merr 2008		
<i>Antocha</i>	L	1	1	Hils 1995		
<i>Gammarus pseudolimnaeus</i>	A	0-11	23	Hols 1972		
<i>Caecidotea neovitzai neovitzai</i>	A	"	2	Will 1972		
<i>Hygrobatas</i>	A	1	1	Piluch 1984		
<i>Speichonopsis</i>	A	1	1	"		
<i>Naidinae</i>	A	1	1	Bernfeld 1991		
Split A3 Chironomidae	L	1-11-1				
<i>Conchapelopia</i>	L	"	2	Cran Epl 2013		
<i>Orthocladinae 08300000</i>	L	"	3	Cranston 2013	imm	N
<i>Diamasa</i>	L	1	1	South Ander 2013		
<i>Corynoneura</i>	L	1	1	Ander 3 2013		
<i>Parachaeotodidius</i>	L	1	1	"		
<i>Parametrioxenus</i>	L	x	10	"		
<i>Encocciptopus</i>	L	"	2	"		
<i>Tretania bavaria group</i>	L	2-1	31	Bode 1983		
<i>Nanocladius</i>	L	1	1	Ander + 3 2013		

