

Instructions: Bold fields must be completed.

Station Summary			
Waterbody Name CAVES CREEK		Waterbody ID Code 166100	Sample ID (YYYYMMDD-CY-FD) 20211013-39-01
Sampling Location			Database Key 286597347
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 STREAM	
Sampling Device			
<input checked="" type="checkbox"/> D-Frame Kick Net <input type="checkbox"/> Surber Sampler <input type="checkbox"/> Eckman <input type="checkbox"/> Ponar <input type="checkbox"/> Artificial Substrate <input type="checkbox"/> Hess Sampler <input type="checkbox"/> Other: _____			
Habitat Sampled			
<input checked="" type="checkbox"/> Riffle <input type="checkbox"/> Run <input type="checkbox"/> Pool <input type="checkbox"/> Other <input type="checkbox"/> Shoreline Composite <input type="checkbox"/> Proportionally-Sampled Habitat <input type="checkbox"/> Littoral Zone <input type="checkbox"/> Profundal Zone <input type="checkbox"/> Wetland			
Total Sampling Time (min) 2	Estimated Area Sampled (m ²) 2	Number of Samples in Composite 1	Replicate No. _____ of _____
Reason For Sampling			
<input type="checkbox"/> Least Impacted Reference <input type="checkbox"/> Baseline <input type="checkbox"/> Impact / Treatment Site <input type="checkbox"/> Control Site <input checked="" type="checkbox"/> Trend <input type="checkbox"/> Other: _____			
Water Temp. (C) 13.1	D.O. (mg/l) 8.98	D.O. (% sat.) 87.7	pH (su) 7.64
Conductivity (umhos/cm) 315		Transparency (cm) 120	
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 type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input checked="" type="checkbox"/> Fast (> 0.5 m/s)	
Measured Velocity circle units m/s or f/s	Average Stream Depth of reach (m) 0.25	Average Stream Width of reach (m) 1.5	
Composition of Substrate Sampled (Percent):			
Bedrock: _____	Boulders (basketball or larger): _____	Rubble (tennisball to basketball): 100	Gravel (ladybug to tennisball): _____
Sand: _____	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 (%) 0	

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		
Physical			Bank Erosion	N	N
Bank Erosion	N	N	Point Source - Specify:	N	N
Channelization: - Upstream	N	N	Pasturing of Livestock	N	N
- Downstream	N	N	Runoff: - Barnyard	N	N
Hydraulic Scour / Channel Incision	N	N	- Construction	N	N
Impoundment: - Upstream	N	N	- Cropland	N	PL
- Downstream	N	N	- Urban	N	N
Low Flow	N	N	Septic Systems	N	N
Sedimentation	PL	PL	Tile Drainage - Organic Soils	N	N
Sludge	N	N	- Mineral Soils	N	N
Thermal	N	N	Springs	N	PL
Turbidity	N	N	Tributary(s)	PL	PL
Other - Specify:			Wetland	PL	PL
			Other - Specify:		

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter Klopping, Trent	Taxonomist Dimick, Jeffrey	Estimated Percent of Sample Sorted Rep 1) 6.25% Rep 2) 6.25%
Date Processed 10/7/2022	Specimens Saved Rep 1) 177 Rep 2) 132	

125
 A4
 Q3 43
 Q2 17+19
 Q4
 Q1
 B1
 Q1 37
 Q3 61
 Q2
 Q4
 177

Rep 2) B4 D1
 Q3 47+2 Q3 21
 Q4 38 Q4 24
 Q1 Q2
 Q2 Q1
 132 subsamples archived in ABL into Jan 2026

Taxa	Life Stage	Organism Count			Taxonomic Reference	Condition	Unique Taxon
		Rep 1	Rep 2	Rep 3			
<i>Baetis bannweileri</i>	L	4	2		Klub 2016		
<i>Brachycentrus americanus</i>	L	8	11		Hils 1985		
Protoptila	L	0	1		MCB 2019		
<i>Helicopsyche borealis</i>	L	0	2		Hils 1985		
<i>Cheumatopsyche</i>	L	4	4		MCB 2019		
<i>Hydropsyche betteni</i>	L	6	6		Schm Hils 1986		
<i>Lepidostoma</i>	L	3	2		MCB 2019		
<i>Chimarra aterrima</i>	L	0	1		Hils 1982		
<i>Neophylax</i>	L	2	1		MCB 2019	imm	
<i>Ophiocercus</i>	L	19	10		"	imm	N
<i>D-fastidius</i> R1 L.B A.5 R2 L.B A.3	L/A	13	11		Hils Schm 1992		
<i>Stenelmis orenata</i>	A	1	1		"		
Empididae	L	0	1		MCB 2019	deum	N
<i>Demerodromia</i>	L	2	4		"		
<i>Neoplasta</i>	L	1	0		"		
<i>Simulium</i>	P	0	1		"		
<i>Calopterygus</i>	L	1	0		"		
<i>Amphiba</i>	L	2	0		"		
<i>Gammarus pseudolimnaeus</i>	A	6	12		Hils 1972		
<i>Caecidotea racovitzai racovitzai</i>	A	19	18		Will 1972		
Dugesidae	A	2	0		Thorp Reg 2016		
<i>Physa</i>	A	0	2		"		
Naidinae	A	2	6		Kath Bein 1998		
Tubificonae (without hairs)	A	1	0		"		
<i>Leberdia</i>	A	2	0		Peck et al 1990		
Sperchonidae	A	4	0		"		
split A2a Chironomidae	L	50	29	31			
split A2b Chironomidae	L	3	0	11			
<i>Orthocladiinae</i>	L	11	0		Ander et al 2013	imm	N
<i>Cricotopus (Cricotopus)</i>	L	0	1		"		
<i>Eukiefferiella claripennis</i> group	L	2	4		"		
<i>E. devonica</i> group	L	1	0		"		
<i>Nanocladius (Nanocladius)</i>	L	3	0		"	imm	
<i>Parametriocnemus</i>	L	2	1		"		
<i>Thienemannella</i>	L	1	0		"	imm	
<i>Tvetenia bavarica</i> group	L	27	17		Bode 1983		
<i>Chironominae</i>	L	3	1		Ander et al 2013	imm	N
<i>Cladotanytarsus</i>	L	2	1		"		
<i>Micropsectra</i>	L	1	0		"		
<i>Polypedium (Polypedium) illinoense</i> group	L	2	0		Balton 2012		

