

Instructions: Bold fields must be completed.

Station Summary			
Waterbody Name CEDAR SPRING CREEK		Waterbody ID Code 245000	Sample ID (YYYYMMDD-CY-FD) 20191003-70-01
Sampling Location @ cty Q		Database Key 208654181	
SWIMS Station ID 10030585		SWIMS Station Name CEDAR SPRINGS CREEK - COUNTY HIGHWAY Q	
Latitude Same as	Longitude SWIMS	Lat/Long Determination Method (circle) SWIMS SWDV <u>GPS</u>	Datum Used if using GPS <u>WGS84</u> or NAD83
Basin (WMU) WOLF RIVER		Watershed Name PINE AND WILLOW RIVERS	County WAUSHARA

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

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) 2	Estimated Area Sampled (m ²) 1.5	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) 11.2	D.O. (mg/l) 8.2	D.O. (% sat.) 76.8	pH (su) 7.5	Conductivity (umhos/cm) 306.4	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 type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input checked="" type="checkbox"/> Fast (> 0.5 m/s)
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Measured Velocity 1.677	circle units m/s or f/s	Average Stream Depth of reach (m) 0.3	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): 30 Gravel (ladybug to tennisball): 40
 Sand: 30 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (_____): _____

Embeddedness of Substrate at Sample Site (%) 20 Canopy Cover at Sample Site (%) 40

465 cfs

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

Comments

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter Logan Cutler	Taxonomist Dimick, J. Prey	Estimated Percent of Sample Sorted 3%
Date Processed 10/15/2020	Specimens Saved 160 subsample archived in ABC unit Dec 2023	

78
C1Q4

82
E3Q4

Taxa	Life Stage	Benthic Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Baetis brunneicolar</i>	L	III	5	Klub 2016		
<i>B. intricatus</i>	L	III	8	"		
<i>B. flavistriga</i> species complex	L	II	2	"		
<i>Ephemerella</i>	L	II	2	Merrillum B 2019	imm	N
<i>E. subvarra</i>	L	III	9	Klub 2016		
<i>Baetiscus americanus</i>	L	II	2	Hils 1985		
<i>Micrasema gelidum</i>	L	X	10	"		
<i>Glossosoma</i>	L	I	1	Merrillum B 2019	imm	N
<i>G. intermedium</i>	L	I	1	Wymler 2000		
Hydropsychidae	L	III	3	Merrillum B 2019	imm	N
<i>Ceratopsyche glossonae</i>	L	XII	13	Schm Hils 1986		
<i>Chironomopsycha</i>	L	DI	22	Merrillum B 2019		
<i>Hydropsyche</i>	L	III	4	Hils 1985	imm	N
<i>H. betteri</i>	L	II	3	Schm Hils 1986		
<i>Lenidostoma</i>	L	I	1	Merrillum B 2019		
<i>Ottoservus</i>	L	XIII	18	"	imm	N
<i>O. fastidius</i> L, II A, I	L, A	XII	12	Hils Schm 1992		
<i>Tvetenia</i>	P	I	1	Merrillum B 2019		N
<i>Emerodromia</i>	L	II	2	"		
<i>Simulium vittatum</i> species complex OBUDZIB	L	I	1	Ad et al 2004		
<i>Anocha</i>	L	I	1	Merrillum B 2019		
<i>Dicranota</i>	L	I	1	"		
<i>Gammarus pseudolimnoides</i>	A	8	30	Hils 1972		
Spesophoridae	A	XII	12	Peck et al 1990		
Chydoridae	A	I	1	Thorp Reg 2016		
Dugesiiidae	A	II	2	"		
Physa	A	II	2	"		
Aspidium	A	I	1	"		
Spitaz Chironomidae	L	TRND				
<i>Parametriocnemus</i>	L	I	1	Ad et al 2013		
<i>Tvetenia bavarica</i> group	L	III	3	Bode 1983		
<i>Rheotanytarsus</i>	L	III	3	Ad et al 2013		
<i>Thienemannimyia</i> group	L	I	1	"		
<i>Eukiefferiella claripennis</i> group	L	II	2	"		
<i>Polypedilum (Uresipedilum) aviceps</i>	L	I	1	Bolton 2012		

> 3 taxa, TVALSZID
 32 > (0.1 x 153)