

Instructions: Bold fields must be completed.

Station Summary			
Waterbody Name CEDAR SPRING CREEK		Waterbody ID Code 245000	Sample ID (YYYYMMDD-CY-FD) 20171027-70-01
Sampling Location			Database Key 149253187
SWIMS Station ID 10030585		SWIMS Station Name CEDAR SPRINGS CREEK - COUNTY HIGHWAY Q	
Latitude 44.086742	Longitude -89.07207	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 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 STREAMS

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 (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) 8.2°C 46.7°F	D.O. (mg/l) 6.8	D.O. (%sat.) 58.1	pH (su) 7.4	Conductivity (umhos/cm) 365.8	Transparency (cm) 120
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Water Color

Clear
 Turbid
 Stained

Estimated Stream Velocity (m/s)

Slow (< 0.15 m/s)
 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) .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): 10 Gravel (ladybug to tennisball): 80
 Sand: _____ Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: 10 Leaf Snags: _____ Coarse Woody Debris: _____ Other (____): _____
 Embeddedness of Substrate at Sample Site (%) 10 Canopy Cover at Sample Site (%) 30

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	PL	PL	- Cropland	N	N
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	N	N	Springs	N	N
Sludge	N	N	Tributary(s)	N	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 Steinhilber	Taxonomist Jim Mick Jeffrey	Estimated Percent of Sample Sorted 70%
Date Processed 10/26/18	Specimens Saved Subsample archived in ABL until Jan 2022	

1C 297

3B Total = 297

	Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
1/1	Nemoura frispinosa	L	I	1	Hils 1995		
	Baetis brunneicolar	L	III	3	Klub 2016		
	B. fvuistaiga species complex	L	III	3	"		
	Ephemerella	L	I	1	"	imm	N
2/2	E. invaria	L	I	1	"		
3/6	E. subvaria	L	III	4	"		
	Maccaffertium	L	I	1	"	imm	N
4/7	M. vicarium	L	I	1	"		
5/8	Brachycentrus americanus	L	I	1	Hils 1985		
6/10	B. occidentalis	L	II	2	"		
7/2	Micrasema gelidum	L	II	2	"		
8/5	Glossosoma	L	II	2	Hils 1995		
	G. intermedium	L	I	1	Wym Mes 2000		
	Cheumatopsyche	L	III	3	Hils 1995		
	Ceratopsyche stossnazi	L	XI	11	Schm Hils 1986		
	Neophylix	L	I	1	Hils 1995		
	Optiosevus	L	8xII	57	Hils Schm 1992	imm	N
	D. fastiditus L, 21 A, 3	L/A	0III	24	"		
	Hemerodromia	L	II	2	Coart Merr 2008		
	Neoplasta	L	I	1	"		
	Simulium	L	IIII	4	Adl et al 2004	imm	N
	S. vittatum species complex 08110217	L	88xIII	93	"		
	Antocha	L	IIII	4	Hils 1985		
	Dicranota	L	I	1	"		
	Tvetenia	P	I	1	Ferret al 2008		N
	Gammarus pseudolimnacus	A	8xIII	34	Hils 1972		
	Lebertia	A	I	1	Pluch 1984		
	Limnesia	A	I	1	"		
	Sphaeropsis	A	X	10	"		
	Mermithidae	A	III	3	DeThoop 205 2016	imm	
	Dugesidae	A	II	2	"		
	Tubificinae (without hairs)	A	I	1	Klemm 1985		
	Glossiphonia complanata	A	I	1	"		
	Physa	A	I	1	Thorp Reg 2016		
	Gymnulus deflectus	A	I	1	"		
	Split As Chironomidae	L	II	2			

>3 taxa, TVAL ≤ 2.0
 16 < (0.1 x 206)

