

Instructions: Bold fields must be completed.

Station Summary			
Waterbody Name CEDAR SPRING CREEK		Waterbody ID Code 245000	Sample ID (YYYYMMDD-CY-FD) 2016/006-70-01
Sampling Location DS HWY Q			Database Key 133649575
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 <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 STREAMS

Sampling Device

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) 2	Number of Samples in Composite 1	Replicate No. <u>1</u> of <u>1</u>
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Reason For Sampling

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

Water Temp. (°C) 52.5	D.O. (mg/l) 7.84	D.O. (%sat.) 71.6	pH (su) 7.67	Conductivity (umhos/cm) 364.3	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) 0.2	Average Stream Width of reach (m) 2.0
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): _____ Gravel (ladybug to tennisball): 80
 Sand: 20 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (): _____
 Embeddedness of Substrate at Sample Site (%) 10 Canopy Cover at Sample Site (%) 80

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:	N	N	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	PL	PL
Hydraulic Scour / Channel Incision	N	N	- Urban	N	N
Impoundment: - Upstream	PL	PL	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	PL	PL
Sludge	N	N	Tributary(s)	N	N
Thermal	N	N	Wetland	N	N
Turbidity	N	N	Other - Specify:		
Other - Specify:					

Comments

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter Marilyn Greider	Taxonomist Derrick Jeffrey	Estimated Percent of Sample Sorted 7%
Date Processed 10/4/17	Specimens Saved Subsample archived in ABL unit Dec 2020	

C1-311

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Baetis	L	II	2	Klueberlanz 2016	imm	N
B. brunneicolor	L	IIII	23	"		
B. tricaudatus	L	-I	6	"		
1/6 Ephemera subvaria	L	X-III	18	"		
3/24 Miccaffertium vitarium	L	II	2	"		
3/26 Brachycentrus americanus	L	I	1	Hilsenhoff 1985		
4/27 Br. occidentalis	L	II	2	"		
5/29 Micrasema gelidum	L	IIII	3	"		
6/32 Glossosoma	L	III	3	Hilsenhoff 1985	imm	N
7/41 G. intermedium	L	-I	6	Wymen, Morse 2000		
Hydropsychidae	L	II	2	Hilsenhoff 1985		
Chimarra psuche	L	8IIII	44	"		
Hydropsyche betteni	L	X	10	Schm., Hils. 1986		
Ceratopsyche	L	I	1	Hilsenhoff 1985	imm	N
C. glossonae	L	8X-III	58	Schm., Hils. 1986		
8/42 Lepidostoma	L	I	1	Hilsenhoff 1985		
Deceis avara	L	I	1	Floyd 1995		
Chimarra aterrima	L	I	1	Hilsenhoff 1982		
9/44 Nigronia serricornis	L	II	2	Neunzig 1966		
Opatroservus	L	8X-I	56	Hils., Schm. 1992	imm	N
O. fastidius	L, A	8 I	41	"		
Nemerodromia	L	III	3	Carr, Merr. 2000		
Simulium	L	I	1	Ocker et al 2004	dam	N
S. tuberosum species group	L	II	2	"		
S. vittatum species complex	L	X-	15	"		
Simulium	P	III	3	"		N
Amoeba	L	III	3	Hilsenhoff 1985		
Gammarus pseudolimnaeus	A	XIII	13	Holsinger 1972		
Sperchon	A	I	1	Pluchino 1984		
Toxoladida	A	IIII	4	Kolasa 1991		
Metagenophora	A	I	1	Braun, Geld. 1991		
Physella	A	II	2	Braun 1991		
Parametriocremus	P	I	1	Fero et al 2008		
Tretenia	P	IIII	4	"		N
Conchapelonia	L	I	1	Cran, Epker 2013		
Corynoseira	L	I	1	Ander. + 3 2013		

>3 taxa, TVAL ≤ 2.0

44 > (0.1 x 322)

