State of Wisconsin
Department of Natural Resources
PO Box 7291, Madison WI 53707-7291
dnr.wi.gov

Wadeable Macroinvertebrate Field Data Report

Form 3200-081 (R 8/14)

Instructions: **Bold** fields must be completed.

20211006-TD-01

Station Summary

Waterbody Name	**Waterbody ID Code**	**Sample ID (YYYYMMDD-CY-FD)**
CEDAR SPRING CREEK	245000	~~20211006-68-01~~ ND

Sampling Location	**Database Key**
	286597351

SWIMS Station ID	**SWIMS Station Name**
10030585	CEDAR SPRINGS CREEK - COUNTY HIGHWAY Q

Latitude	**Longitude**	**Lat/Long Determination Method (circle)**	**Datum Used if using GPS**
44.086742	-89.07207	SWIMS SWDV GPS	WGS84 or NAD83

Basin (WMU)	**Watershed Name**	**County**
WOLF RIVER	PINE AND WILLOW RIVERS	WAUSHARA

Sample and Site Descriptors

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

Sampling Device

- [X] D-Frame Kick Net
- [ ] Surber Sampler
- [ ] Eckman
- [ ] Ponar
- [ ] Artificial Substrate
- [ ] Hess Sampler
- [ ] Other: _____

Habitat Sampled

- [X] Riffle
- [ ] Run
- [ ] Pool
- [ ] Other
- [ ] Shoreline Composite
- [ ] Proportionally-Sampled Habitat
- [ ] Littoral Zone
- [ ] Profundal Zone
- [ ] Wetland

Total Sampling Time (min)	**Estimated Area Sampled (m^2)**	**Number of Samples in Composite**	**Replicate No.** ____ **of** ____
2	1.5	1	

Reason For Sampling

- [ ] Least Impacted Reference
- [ ] Baseline
- [ ] Impact / Treatment Site
- [ ] Control Site
- [X] Trend
- [ ] Other: _____

Water Temp. (C)	**D.O. (mg/l)**	**D.O. (% sat.)**	**pH (su)**	**Conductivity (umhos/cm)**	**Transparency (cm)**
14.5	9.84	96.5	7.98	382.1	120

Water Color

- [X] Clear
- [ ] Turbid
- [ ] Stained

Estimated Stream Velocity (m/s)

- [ ] Slow (< 0.15 m/s)
- [X] 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)**	**Average Stream Width of reach (m)**
	.15	3

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 40 Gravel (ladybug to tennisball): 60

Sand: _____ 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 (%)** 30

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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
Biological		
Algae: - Diatoms / Periphyton	N	N
- Filamentous Algae	N	N
- Planktonic Algae	N	N
Iron Bacteria	N	N
Macrophytes	PL	PL
Slimes	N	N
Other - Specify:	N	N
Physical		
Bank Erosion	N	N
Channelization: - Upstream	N	N
- Downstream	PH	PH
Hydraulic Scour / Channel Incision	N	N
Impoundment: - Upstream	N	N
- Downstream	N	N
Low Flow	N	N
Sedimentation	N	N
Sludge	N	N
Thermal	N	N
Turbidity	N	N
Other - Specify:	N	N

Factors that may be influencing Water Resource Integrity	Local	Water-shed
Chemical		
Chlorine	N	N
Dissolved Oxygen	N	N
Nutrients (P, N...)	N	N
Toxics: - Inorganic (Metals)	N	N
- Organic (PCBs, pesticides...)	N	N
Other - Specify:	N	N
Sources of Stream Impacts		
Bank Erosion	N	N
Point Source - Specify:	N	N
Pasturing of Livestock	N	N
Runoff: - Barnyard	N	N
- Construction	N	N
- Cropland	PL	PH
- Urban	N	N
Septic Systems	N	N
Tile Drainage - Organic Soils	N	N
- Mineral Soils	PL	PL
Springs	PL	PL
Tributary(s)	PL	PL
Wetland	PL	PL
Other - Specify:	N	N

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter: Raymer, Blake	Taxonomist: Dimick, Jeffrey	Estimated Percent of Sample Sorted: R1=6.25% R2=9.38%
Date Processed: 10/11/22	Specimens Saved: R1=137, R2=136 subsamples archived in ABL until Jan 2026	

A3:94:32 C491:40 92:33 R1=137
C4:93:32 93: 91: 94:

D193:19 C491: 92: →36 92:21 R2=136
94:18 94:16 91:26

Wisconsin Department of Natural Resources
ABL SampleNum: **20211006-70-01**
Taxonomist: Dimick, Jeffrey

Waterbody: **Cedar Spring Creek**
SWIMS Database Key: **286597351**

Taxa	Life Stage	Organism Count Rep 1	Rep 2	Rep 3	Taxonomic Reference	Condition	Unique Taxon
Baetis brunneicolor	L	7	8		Klub 2016		
B. tricaudatus	L	8	5		"		
Ephemerella invaria	L	0	1		"		
E. subvaria	L	1	7		"		
Brachycentrus occidentalis	L	1	1		Hils 1985		
Micrasema gelidum	L	1	1		"		
Glossosoma intermedium	L	1	0		WymMor 2000		
Hydropsychidae	L	2	4		MCB 2019	imm	N
Ceratopsyche	L	1	0		Hils 1995	imm	N
C. slossonae	L	24	16		SchmHils 1986		
Cheumatopsyche	L	18	17		MCB 2019		
Hydropsyche betteni	L	10	5		SchmHils 1986		
Chimarra aterrima	L	0	1		Hils 1982		
Optioservus	L	19	25		MCB 2019	imm	N
O. fastiditus	L	13	13		Hils Schm 1992		
Diamesa	P	1	0		MCB 2019		
Paratanytarsus	P	1	0		"		
Neoplasta	L	2	1		"		
Simulium tuberosum species complex	L	0	1		Adl et al 2004		
S. vittatum species complex DB160218	L	6	11		"		
Hydrobaenus	L	0	1		MCB 2019		
Antocha	L	1	1		"		
Dicranota	L	1	1		"		
Crangonyx pseudogracilis	A	7	8		Hols 1972		
Mermithidae	A	0	2		Thorp Rog 2016		
Dugesiidae	A	3	0		"		
Physa	A	1	2		"		
Pisidium	A	0	1		"		
Megadrili	A	2	0		"		
Naidinae	A	9	2		Kath Born 1998		
Lebertia	A	2	3		Peck et al 1997		
Sperchonidae	A	6	11		"		
~~Split A2 Chironomidae~~	~~L~~	~~11~~	~~9~~ JJD				
Thienemanniella group	L	1	0		Anderet al 2013		
Orthocladiinae	L	3	1		"	imm	N
Eukiefferiella	L	1	0		"	cam	
Orthocladius (Orthocladius)	L	0	1		"		
Parametriocnemus	L	2	3		"		
Tvetenia bavarica group	L	7	5		Bode 1983		
~~Orthocl~~ Chironominae	L	1	0		Anderet al 2013	imm	N

JJD

>3 taxa, TVAL ≤ 2.0

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		Rep 1	Rep 2	Rep 3			
Micropsectra	L	0	1		Anderetal 2013		
Polypedilum (Uresipedilum) aviceps	L	1	1		Bolton 2012		
Rheotanytarsus	L	5	4		Anderetal 2013		
Tanytarsus	L	0	1		"		