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.

Station Summary

Waterbody Name	**Waterbody ID Code**	**Sample ID (YYYYMMDD-CY-FD)**
ELK CREEK	2120800	20181031-09-03

Sampling Location: DS of bridge ~65m

Database Key: 169645827

SWIMS Station ID	**SWIMS Station Name**
10030130	ELK CREEK AT 35TH STREET

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

Basin (WMU)	**Watershed Name**	**County**
LOWER CHIPPEWA	MUDDY AND ELK CREEKS	CHIPPEWA

Sample and Site Descriptors

Sample Collector (Last Name, First): MYCAL RALEIGH / Kristen Rathbun

Project Name: WCR LONG-TERM TREND WADEABLE REFERENCE STREAM

Sampling Device

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

Habitat Sampled

- [ ] Riffle
- [X] 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**
1	1	1	1 / 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)**

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)**
	.3	4.5

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 20 Gravel (ladybug to tennisball): 30

Sand: 20 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____

Aquatic Macrophytes: 30 Leaf Snags: _____ Coarse Woody Debris: _____ Other (_____): _____

Embeddedness of Substrate at Sample Site (%) 40 **Canopy Cover at Sample Site (%)** 0

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

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

Comments: CLP in Stream. Heavy horse pasturing us of bridge. Cropland surrounding on both sides of stream

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter	Taxonomist	Estimated Percent of Sample Sorted
Logan Cutler	Dimick, Jeffrey	13%
Date Processed	**Specimens Saved**	
11/1/19	77 + 52 = 129 (A1 / D3 / Total)	

2hr subsample archived on ABL until Jan 2023

Wisconsin Department of Natural Resources
ABL SampleNum: **20181031-09-03**
Taxonomist: Dimick, Jeffrey

Waterbody: **Elk Creek**
SWIMS Database Key: **169645827**

	Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
1/2	Baetis tricaudatus	L	II	2	Klub 2016		
	B. flavistriga species complex	L	I	1	"		
	Ephemerella	L	X III	13	"	imm	N
2/16	E. excrucians	L	IIII	4	"		
3/10	Paraleptophlebia	L	III	4	"	imm	
	Prostoia	L	I	1	Hils 1995	imm	
	Allocapnia	L	I	1	"		
4/17	Isoperla signata	L	-II	7	Hils 1982		
5/23	Taeniopteryx	L	-I	6	Hils 1995	imm	
6/27	Brachycentrus americanus	L	III	4	Hils 1985		
	Ceratopsyche slossonae	L	X III	14	Schm Hils 1986		
	Hydatophylax argus	L	I	1	Hils 1995		
	Optioservus	L	X IIII	14	Hils Schm 1992		
	O. fastriatus L 3 A 2	L/A	-	5	"		
	Stenelmis crenata	A	I	1	"		
7/28	Atherix variegata	L ~~A~~	I	1	Hils 1995		
	Bezzia/Palpomyia	L	I	1	"		
	Neoplasta	L	I	1	Courtney 2008		
	Simulium vittatum species complex 08110218	L	I	1	Adler et al 2004		
	Simulium	L	I	1	"	imm	Y
	Antocha	L	I	1	Hils 1995		
	Dicranota	L	X	10	"		
8/29	Hesperoconopa dolichophallus	L	I	1	"		
	Limnophila	L	I	1	"		
	Gammarus pseudolimnaeus	A	-III	8	Hols 1972		
	Caecidotea racovitzai racovitzai	A	X-II	17	Will 1972		
	Hygrobates	A	II	2	Pluch 1984		
	Limnesia	A	-II	7	"		
	Lebertia	A	-I	6	"		
	Tubificinae (with hairs)	A	I	1	Klemm 1985		
	Diamesa	L	I	1	Saether 2013		
	Thienemanniella group	L	I	1	Cranston 2013		
9/30	Parachaetocladius	L	I	1	And + 3 2013		
	Chironominae 08330000	L	I	1	Cranston 2013	not in det	Y
	Cladotanytarsus	L	II	2	Epler et al 2013		
	Microtendipes pedellus group	L	II	2	"		
	Rheotanytarsus	L	I	1	"		

>3 taxa, TVAL ≤ 2.0
30 > (0.1 × 113)