

**Wadeable Macroinvertebrate
Field Data Report**

Form 3200-081 (R 8/14)

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Instructions: Bold fields must be completed.

Station Summary

Waterbody Name FREEMAN CREEK	Waterbody ID Code 1427700	Sample ID (YYYYMMDD-CY-FD) 20171122-37-01
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Sampling Location US bridge ~15m	Database Key 151313298
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SWIMS Station ID 10029060	SWIMS Station Name FREEMAN CREEK AT STH153
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Latitude	Longitude	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
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Basin (WMU) CENTRAL WISCONSIN	Watershed Name LOWER BIG EAU PLEINE RIVER	County MARATHON
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Sample and Site Descriptors

Sample Collector (Last Name, First) MYCAL RALEIGH	Project Name WEST DISTRICT NC STREAM STRATIFIED SITES 2017
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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) 1 min	Estimated Area Sampled (m ²) 2 m²	Number of Samples in Composite 1	Replicate No. 1 of 1
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Reason For Sampling

☐ Least Impacted Reference	☐ Baseline	☐ Impact / Treatment Site
☐ Control Site	☐ Trend	☒ Other: WCSR

Water Temp. (C)	D.O. (mg/l)	D.O. (%sat.)	pH (su)	Conductivity (umhos/cm)	Transparency (cm)
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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)
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Measured Velocity circle units m/s or f/s	Average Stream Depth of reach (m) .25	Average Stream Width of reach (m) 4.5m
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Composition of Substrate Sampled (Percent):

Bedrock: _____	Boulders (basketball or larger): _____	Rubble (tennisball to basketball): 70	Gravel (ladybug to tennisball): 20
Sand: 10	Clay: _____	Silt/Muck: _____	Overhanging Vegetation: _____

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

Embeddedness of Substrate at Sample Site (%) **45** Canopy Cover at Sample Site (%) **0**

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

Comments Stream froze over, except in riffle. Sampled. Stream is well buffered at site, but there is a large amount of cropland and livestock in watershed.

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter <i>Kyle Wilcox</i>	Taxonomist <i>Dimick Jeffrey</i>	Estimated Percent of Sample Sorted <i>70%</i>
Date Processed <i>8/16/18</i>	Specimens Saved <i>Subsample archived in BSL until Dec 2021</i>	

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Wisconsin Department of Natural Resources

ABL SampleNum: 20171122-37-01

Taxonomist: Dimick, Jeffrey

Waterbody: Freeman Creek
SWIMS Database Key: 151313298

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Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Allocapnia</i>	L	III	3	Hils 1995		
<i>Nannoperla</i>	L	I	5	"	imm	
<i>Isoperla signata</i>	L	II	7	Hils 1992		
<i>Taeniopteryx burksi</i>	L	IIII	4	Fuller 1990		
<i>Acerpenna macdunnoughi</i>	L	II	2	Klub 2016		
<i>Ephemera</i>	L	II	6	"	imm	N
<i>E. invaria</i>	L	XI	15	"		
<i>E. subvaria</i>	L	II	2	"		
<i>Eurylophella</i>	L	XI	16	"	imm	
<i>Ephemerella</i>	L	I	1	"	imm	N
<i>E. similans</i>	L	I	1	"		
<i>Maccaffertium</i>	L	I	1	"	imm	Y
<i>M. medianum</i>	L	III	8	"		
<i>Leptophlebia</i>	L	I	5	"	cam	N
<i>Paraleptophlebia</i>	L	XI	16	"	imm	N
<i>P. mollis</i>	L	II	2	"		
<i>Helicopsyche borealis</i>	L	II	2	Hils 1995		
<i>Chenopodopsycha</i>	L	III	3	"		
<i>Hydropsyche betteni</i>	L	I	1	Schm Hils 1995		
<i>Ceratopsyche borealis</i>	L	II	2	"		
<i>Lynx diversa</i>	L	I	1	Hils 1995		
<i>Psychomyia flavida</i>	L	II	2	"		
<i>Neophylax</i>	L	II	2	"	imm	
<i>Trichoptera</i>	L	I	1	"	imm	N
<i>Antisericus</i>	L	I	5	Hils Schm 1992	imm	N
<i>P. fasciatus</i> L, 9 A, 4	L, A	XIII	13	"		
<i>Stenelmis</i>	L	I	6	"		N
<i>S. crenata</i>	A	II	2	"		
<i>Nemertodromia</i>	L	III	4	Edwitt West 2003		
<i>Neolasta</i>	L	I	1	"		
<i>Antocha</i>	L	II	2	Hils 1995		
<i>Tubificinae (without hairs)</i>	A	I	1	Klemm 1985		Y
<i>Tubificinae (with hairs)</i>	A	I	1	Klemm 1985		Y
Split A3 Chironomidae	L	XI	11			
<i>Conchapelopia</i> 06270100	L	I	6	Crane 2013		
<i>Metopleria</i>	L	I	1	"		

[illegible]