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)**
PINE RIVER	247800	20181026-70-06

Sampling Location	**Database Key**
	169821871

SWIMS Station ID	**SWIMS Station Name**
703107	PINE RIVER - OFF 26TH RD AT E. FRATER PROP.

Latitude	**Longitude**	**Lat/Long Determination Method (circle)**	**Datum Used if using GPS**
44.16676	-89.10511	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	PINE RIVER 319 PROJECT-FUNDED TWA 2018

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

1 of 1

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

Reason For Sampling

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

Water Temp. (C)	**D.O. (mg/l)**	**D.O. (% sat.)**	**pH (su)**	**Conductivity (umhos/cm)**	**Transparency (cm)**
8.3	11.3	99.0	7.9	352.7	120

Water Color

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

Estimated Stream Velocity (m/s)

- [ ] Slow (< 0.15 m/s)
- [ ] Moderate (0.15 m/s - 0.5 m/s)
- [X] Fast (> 0.5 m/s)

Measured Velocity	circle units	**Average Stream Depth of reach (m)**	**Average Stream Width of reach (m)**
2.28	m/s or (f/s)	0.6	7

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 80 Gravel (ladybug to tennisball): 10

Sand: 10 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____

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

Embeddedness of Substrate at Sample Site (%) 20 **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	Water-shed	Factors that may be influencing Water Resource Integrity	Local	Water-shed
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
Physical			Point Source - Specify:	N	N
Bank Erosion	N	N	Pasturing of Livestock	N	N
Channelization: - Upstream	N	N	Runoff: - Barnyard	N	N
- Downstream	N	N	- Construction	N	N
Hydraulic Scour / Channel Incision	N	N	- Cropland	N	PL
Impoundment: - Upstream	PL	PH	- Urban	N	N
- Downstream	N	PH	Septic Systems	N	N
Low Flow	N	N	Tile Drainage - Organic Soils	N	PL
Sedimentation	PH	PH	- Mineral Soils	N	PL
Sludge	N	N	Springs	N	PL
Thermal	N	N	Tributary(s)	N	PL
Turbidity	N	N	Wetland	PL	PL
Other - Specify:			Other - Specify:		

Comments
Replicate of Database Key 168915307 sample

Special Instructions for Laboratory

Same sorter as 20181026-70-03

For Lab Use Only		
Sample Sorter Logan Cutler	Taxonomist Dimick, Jeffrey	Estimated Percent of Sample Sorted 80%
Date Processed 3/28/19	Specimens Saved 11 + 12 + 6 + 12 + 15 + 13 + 8 + 12 + 15 + 9 + 10 + 7 = 130 total	

D2 A3 B1 A1 C3 B3 B2 D3 C2 E2 E3 D1 C1 E1

Subsample archived 4 hr ABL with RH May 2022

Wisconsin Department of Natural Resources
ABL SampleNum: **20181026-70-06**
Taxonomist: Dimick, Jeffrey

Waterbody: **Pine River**
SWIMS Database Key: **169821871**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Baetisca	L	|	1	Kluh 2016	imm	
Ephemerella	L	~|	6	"	imm	
Teloganopsis deficiens	L	~|	6	"		
Maccaffertium	L	~||||	9	"		
M. mediopunctatum	L	|	1	"		
M. vicarium	L	~	5	"		
Brachycentrus numerosus	L	||||	4	Hils 1985		
Helicopsyche borealis	L	|||	3	Hils 1985		
Ceratopsyche bronta	L	|	1	Schm Hils 1986		
C. sparna	L	||||	4	"		
Limnephilidae	L	||	2	Hils 1995	imm	
Chimarra aterrima	L	|	1	Hils 1982		
Psychomyia flavida	L	~	5	Hils 1985		
Neophylax	L	|	1	"		
Macronychus glabratus	L	|	1	Hils Schm 1982		
Optioservus	L	▢	20	"	imm	N
O. fastiditus L, 22 A, 4	L, A	▢~|	26	"		
Stenelmis	L	||	2	"		N
S. crenata	A	||	2	"		
Ectopria leechi/nervosa	L	|	1	"		
Atherix variegata	L	|	1	Hils 1985		
Hemerodromia	L	×	10	Court Merr 2008		
Empididae	P	|	1	Merr Webb 2008		N
Gammarus pseudolimnaeus	A	||||	4	Hols 1972		
Hyalella spinicauda	A	||	2	Soucek et al 2015		
Caecidotea	A	||||	4	Will 1972	imm	
Lebertia	A	||	2	Pluchino 1984		
Limnesia	A	~|	6	"		
Orconectes virilis	A	|	1	Hobbs, Jass 1988		
Hoplonemertea	A	~||	7	Thorp Rog 2016		
Ferrissia rivularis	A	|	1	"		
Laevapex fuscus	A	|	1	"		
Fossaria	A	|	1	Burch 1989		
Pisidium	A	|	1	Burch 1982		
Orthocladius (Euorthocladius) saxosus	L	|	1	Epler 2001		
Cladotanytarsus	L	|	1	Ep et al 2013		

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Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Rheotanytarsus	L	IIII	4	Epler et al 2013		