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	20181026-70-01

Sampling Location	**Database Key**
	168915315

SWIMS Station ID	**SWIMS Station Name**
10022005	PINE RIVER CTH A OLD BRIDGE UPSTREAM ANNUAL SITE

Latitude	**Longitude**	**Lat/Long Determination Method (circle)**	**Datum Used if using GPS**
44.18663	89.15418	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

Total Sampling Time (min)	**Estimated Area Sampled (m^2)**	**Number of Samples in Composite**	
2.0	1.5	1	**Replicate No.** 1 of 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)**
7.6	10.7	91.6	7.8	369.3	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)**
1.63	m/s **or** (f/s)	0.4	6.0

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 40 Gravel (ladybug to tennisball): 50

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

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

Embeddedness of Substrate at Sample Site (%) 30 **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	PL	- Construction	N	N
Hydraulic Scour / Channel Incision	N	N	- Cropland	N	N
Impoundment: - Upstream	N	N	- 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

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter	Taxonomist	Estimated Percent of Sample Sorted
Kiersten Czarnecki	Dimick, Jeffrey	27%
Date Processed	**Specimens Saved**	
3/11/2019	231 Subsample archived in AFE until May 2022	

E1: 39 C3: 37
D2: 45 A2: 110

Wisconsin Department of Natural Resources
ABL SampleNum: **20181026-70-01**
Taxonomist: Dimick, Jeffrey

Waterbody: **Pine River**
SWIMS Database Key: **168915315**

	Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
2/5	Taeniopteryx	L	𝍸	5	Wils 1995	imm	
	Baetis brunneicolor	L	III	3	Klub 2016		
	B. flavistriga species complex	L	–	5	"		
	Baetisca	L	I	1	"	imm	N
	B. laurentina	L	II	2	"		
	Baetidae	L	I	1	"	dam	N
2/6	Ephemerella invaria	L	I	1	"		
3/8	E. subvaria	L	II	2	"		
	Heptageniidae	L	II	2	"	imm	N
	Stenacron	L	II	2	"	imm	
	Maccaffertium	L	𝍸 I	16	"	imm	Y
	M. mediopunctatum	L	I	1	"		
4/4	M. vicarium	L	𝍸 I	6	"		
5/16	Brachycentrus occidentalis	L	II	2	Wils 1985		
	Hydropsychidae	L	II	2	Wils 1995	imm	N
	Cheumatopsyche	L	𝍸 II	14	"		
	Hydropsyche betteni	L	I	1	Schm Wils 1986		
	Ceratopsyche slossonae	L	II	2	"		
	Oecetis	L	II	2	Wils 1995	imm	
6/24	Ceratopsyche sparna	L	𝍸 III	8	Schm Wils 1986		
7/25	Brachycentrus americanus	L	I	1	Wils 1985		
8/27	Nigronia serricornis	L	II	2	Neunzig 1966		
	Optioservus	L	𝍸 II	17	Wils Schm 1992	imm	N
	O. fastidiosus L 8 A 1	L/A	𝍸 II	9	"		
9/32	Atherix variegata	L	/	5	Wils 1995		
	Stenelmis	L	I	1	Wils Schm 1992		
	Probezzia	L	I	1	Wils 1995		
	Ablabesmyia	L	𝍸 II	17	Coffman 2008		
	Simulium	L	I	1	Adler et al 2004	imm	N
	S. venustum species complex	L	II	2	"		
	S. vittatum species complex 08110218	L	𝍸 I	7	"		
	~~Sje~~S. jenningsi species group	L	I	1	"		
	Simulium	P	III	4	"		N
	Antocha	L	𝍸 III	9	Wils 1995		
	Gammarus pseudolimnaeus	A	0/	25	Holsinger 1972		
	Trombidiformes	A	I	1	Thorp Rog 2016	imm	N
	Hygrobates	A	I	1	Pluchino 1984		

>3 taxa, TVAL ≤ 2.0
33 > (0.1 × 188)

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Leberdia	A	I	1	Pluehno 1984		
Limnesia	A	-IIII	9	"		
Sperchonopsis	A	II	2	"		
Naidinae	A	-II	7	Brinkhurst 1991		
Tubificinae (without hairs)	A	III	3	Kleamm 1985		
Ferrissia	A	I	1	Thorp Rog 2016	dam	
Planorbidae	A	I	1	"	imm	
Sphaerium	A	I	1	Burch 1972		
~~Split Ag Chironomidae~~	~~L~~	~~- JJD~~				
Cladotanytarsus	L	II	2	Epl et al 2013		
Conchapelopia 08270700	L	II	2	Cran Epl 2013		
Orthocladinae 08300000	L	I	1	Cranston 2013		
19/33 Pagastia	L	I	1	Saether And 2013		
Parametriocnemus	L	-III	8	And + 3 2013		
Thienemanniella xena	L	II	2	Bolton 2012		
Tvetenia bavarica group	L	II	2	Bode 1983		
Orthocladius (Orthocladius)	L	-	5	And + 3 2013		
Cricotopus (Cricotopus) bicinctus group	L	I	1	"		
Cryptochironomus	L	I	1	Epl et al 2013		
Microtendipes pedellus group	L	I	1	"		
Polypedilum (Polypedilum) illinoense group	L	I	1	Bolton 2012		
P. (P.) albicorne	L	I	1	"		
P. (Tripodura) halterale group	L	I	1	"		
P. (Uresipedilum) aviceps	L	I	1	"		
P. (U.) flavum	L	I	1	"		
Rheotanytarsus	L	XII	12	Epl et al 2013		
Tanytarsus	L	II	2	"		