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	20181019-70-01

Sampling Location	**Database Key**
	168915299

SWIMS Station ID	**SWIMS Station Name**
703073	LOWER PINE RIVER AT 19TH DRIVE

Latitude	**Longitude**	**Lat/Long Determination Method (circle)**	**Datum Used if using GPS**
N44.20362	W 89, 22620	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**	**Replicate No.** ___ **of** ___
3	2.0	1	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)**
					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)
- [X] Fast (> 0.5 m/s)

Measured Velocity circle units	**Average Stream Depth of reach (m)**	**Average Stream Width of reach (m)**
0.98 m/s or (f/s)	0.6	5.5

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): 20 Rubble (tennisball to basketball): 40 Gravel (ladybug to tennisball): 30

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
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:		
Physical		
Bank Erosion	N	N
Channelization: - Upstream	N	N
- Downstream	N	N
Hydraulic Scour / Channel Incision	N	N
Impoundment: - Upstream	N	PH
- Downstream	N	PL
Low Flow	N	N
Sedimentation	PL	PL
Sludge	N	N
Thermal	N	N
Turbidity	N	N
Other - Specify:		

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:		
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	N	N
- Urban	N	N
Septic Systems	N	N
Tile Drainage - Organic Soils	N	N
- Mineral Soils	N	N
Springs	PL	PL
Tributary(s)	N	N
Wetland	PL	PL
Other - Specify:		

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter	Taxonomist	Estimated Percent of Sample Sorted
Abby Adams	Dimick, Jeffrey	13%
Date Processed	**Specimens Saved**	
3-8-2019	Subsample archived in ABL until May 2022	

C1 E3
83 60 total = 153

Wisconsin Department of Natural Resources
ABL SampleNum: **20181019-70-01**
Taxonomist: Dimick, Jeffrey

Waterbody: **Pine River**
SWIMS Database Key: **168915299**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Baetis brunneicolor	L	×IIII	14	Klun 2016		
1/c B. tricaudatus	L	I	1	"		
B. flavistriga species complex	L	×IIII	9	"		
22 Brachycentrus occidentalis	L	I	1	Hils 1985		
Cheumatopsyche	L	×II	7	Hils 1995		
Ceratopsyche slossonae	L	×I	6	Schm Hils 1986		
Optioservus	L	×	5	Hils Schm 1992	imm	N
O. fastiditus	L	II	2	"		
Stenelmis crenata	A	I	1	"		
Simulium vittatum species complex 08110217	L	I	1	Adler et al 2004		
Antocha	L	III	3	Hils 1995		
Eukiefferiella	P	I	1	Ferr et al ~~2015~~ 2008		
Gammarus pseudolimnaeus	A	8-	45	Hols 1972		
Caecidotea	A	IIII	4	Will 1972	fem/imm	
Hygrobates	A	I	1	Pinch 1984		
Lebertia	A	I	1	"		
Limnesia	A	I	1	"		
Mermithidae	A	I	1	Thorp Rog 2016		
Tubificinae (without hairs)	A	I	1	Klemm 1985		Y
Tubificinae (with hairs)	A	II	2	"		Y
Metagynophora = Mesadrili	A	I	1	Thorp Rog 2016		
~~Split A3 Chironomidae~~	~~L~~	~~- ND~~				
Chironomidae 08250000 (Tribe Chironomini)	L	I	1	Court Merr 2008	dam	N
Orthocladiinae 08300000	L	I	1	Cranston 2013	dam	N
Orthocladius (Orthocladius)	L	III	3	And + 3 ~~2013~~ 2013		
Cricotopus	L	I	1	"		
Cladotanytarsus	L	II	2	Epl et al 2013		
Microtendipes pedellus group	L	×III	13	"		
Paratanytarsus longistilus	L	I	1	"		
Rheotanytarsus	L	×	10	"		
Stictochironomus	L	IIII	4	"		

<3 taxa, TVAL ≤ 2.0