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)**
UNNAMED	294700	20161013-GG-02

Sampling Location	**Database Key**
US Grunstern Rd	133649563

SWIMS Station ID	**SWIMS Station Name**
10043173	UNNAMED TRIB TO N BR OF PIGEON RIVER US GRUNSTERN RD

Latitude	**Longitude**	**Lat/Long Determination Method (circle)**	**Datum Used if using GPS**
44.6632882	-88.9536229	SWIMS SWDV GPS	WGS84 or NAD83

Basin (WMU)	**Watershed Name**	**County**
WOLF RIVER	PIGEON RIVER	WAUPACA

Sample and Site Descriptors

Sample Collector (Last Name, First)	**Project Name**
DAVID BOLHA	UPPER PIGEON RIVER WATERSHED ASSESSMENT - EAST_2_

Sampling Device

- [X] 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**
4	2	1	1 / 1

Reason For Sampling

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

Water Temp. (C)	**D.O. (mg/l)**	**D.O. (%sat.)**	**pH (su)**	**Conductivity (umhos/cm)**	**Transparency (cm)**
8.1°C ~~46.5~~	8.25	69.1	7.38	522.9	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)
- [ ] 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)**
	.2	2

Composition of Substrate Sampled (Percent):

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

Sand: 50 Clay: _____ Silt/Muck: 20 Overhanging Vegetation: 10

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

Embeddedness of Substrate at Sample Site (%) 90 **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	N	N
Slimes	N	N
Other - Specify:		
Physical		
Bank Erosion	PL	PL
Channelization: - Upstream	N	N
- Dow nstream	N	N
Hydraulic Scour / Channel Incision	N	N
Impoundment: - Upstream	PH	PH
- Dow nstream	N	N
Low Flow	PL	PL
Sedimentation	PH	PH
Sludge	N	N
Thermal	PL	PL
Turbidity	N	N
Other - Specify:		

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

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter: Andrew Kohlmann	Taxonomist: Dimick, Jeffrey	Estimated Percent of Sample Sorted: 20%
Date Processed: 4/3/17	Specimens Saved: Subsample archived in ABL until Sept 2020	

E2-61
C3-98
D2-139

Wisconsin Department of Natural Resources
ABL SampleNum: **20161013-69-01**
Taxonomist: Dimick, Jeffrey

Waterbody: **North Branch Pigeon River**
SWIMS Database Key: **133649555**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Paracapnia angulata	L	x1	11	Hitchcock 1974		
Isoperla transmarina	L	I	1	Hilsenhoff 1982		
Baetis brunneicolor	L	IIII	4	Huberteuz 2016		
Ephemerella subvaria	L	II	2	"		
Epeorus vitreus	L	I	1	"		
Maccaffertium vicarium	L	II	2	"		
Paraleptophlebia	L	I	1	"	dam	
Brachycentrus occidentalis	L	-III	8	Hilsenhoff 1985		
Glossosoma intermedium	L	II	2	Wyman Morse 2000		
Protoptila	L	x1	11	Hilsenhoff 1995		
Cheumatopsyche	L	x1	11	"		
Neophylax	L	I	1	"	imm	
Optioservus	L	8-III	48	Hilsenhoff 1992	imm	N
O. fastiditus L, 17 A, 5	L,A	OII	22	"		
Hemerodromia	L	I	1	Courtney Merr. 2008		
Antocha	L	II	2	Hilsenhoff 1995		
Dicranota	L	II	2	"		
Gammarus pseudolimnaeus	A,J	DX OO -III	79	Holsinger 1972		
Hygrobates	A	I	1	Pluchinski 1984		
Diamesa	L	I	1	Saether, Ander. 2013		
Cladotanytarsus	L	I	1	Epler et al 2013		
Polypedilum (Uresipedilum) aviceps	L	II	2	Bolton 2012		
Rheotanytarsus	L	II	2	Epler et al 2013		