

Sample in 2 jars

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name PINE RIVER		Waterbody ID Code 247800	Sample ID (YYYYMMDD-CY-FD) 20181012-70-03
Sampling Location			Database Key 168915331
SWIMS Station ID 703070	SWIMS Station Name UPPER PINE RIVER AT 17TH DRIVE		
Latitude 44,195663	Longitude -89,276213	Lat/Long Determination Method (circle) SWIMS SWDV <u>GPS</u>	Datum Used if using GPS <u>WGS84</u> or NAD83
Basin (WMU) WOLF RIVER		Watershed Name PINE AND WILLOW RIVERS	County WAUSHARA

Sample and Site Descriptors

Sample Collector (Last Name, First) DAVID BOLHA	Project Name PINE RIVER 319 PROJECT-FUNDED TWA 2018
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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) 4	Estimated Area Sampled (m²) 2	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: Targeted Watershed Assessment

Water Temp. (C) 6.9	D.O. (mg/l) 9.2	D.O. (% sat.) 77.7	pH (su) 7.5	Conductivity (umhos/cm) 326.1	Transparency (cm) 120
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Water Color <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained	Estimated Stream Velocity (m/s) <input type="checkbox"/> Slow (< 0.15 m/s) <input checked="" type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input type="checkbox"/> Fast (> 0.5 m/s)
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Measured Velocity 0.95	circle units m/s or (f/s)	Average Stream Depth of reach (m) 0.46	Average Stream Width of reach (m) 1.1
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): _____ Gravel (ladybug to tennisball): _____
 Sand: _____ Clay: _____ Silt/Muck: _____ Overhanging Vegetation: 100
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (): _____

Embeddedness of Substrate at Sample Site (%) _____ **Canopy Cover at Sample Site (%)** 50

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
			Point Source - Specify:	N	N
Physical			Pasturing of Livestock	N	N
Bank Erosion	N	N	Runoff: - Barnyard	N	N
Channelization: - Upstream	N	PL	- Construction	N	N
- Downstream	N	N	- Cropland	N	PL
Hydraulic Scour / Channel Incision	N	N	- Urban	N	N
Impoundment: - Upstream	N	N	Septic Systems	N	N
- Downstream	N	PH	Tile Drainage - Organic Soils	N	N
Low Flow	N	N	- Mineral Soils	N	N
Sedimentation	PH	PH	Springs	PL	PL
Sludge	N	N	Tributary(s)	PL	PL
Thermal	N	N	Wetland	PL	PL
Turbidity	N	N	Other - Specify:		
Other - Specify:					

Comments

Special Instructions for Laboratory

Sample in 2 jars

For Lab Use Only		
Sample Sorter Logan Cutler	Taxonomist Dimick Jeffrey	Estimated Percent of Sample Sorted 13%
Date Processed 2/28/19	Specimens Saved ^{total} 93 + 117 = 210 subsample archived in ABL until May 2022	

E2 C3 D2
 9hr

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Baetis brunneicolor</i>	L	xiii	15	Klich 2016		
<i>Maccaffertium</i>	L	ii	3	"	imm	N
^{1/3} <i>M. siccarum</i>	L	ii	3	"		
Leptophlebiidae	L	ii	2	"	dam	N
<i>Leptophlebia</i>	L	xii	12	"	imm	
<i>Calopteryx</i>	L	i	1	West May 1996	imm	N
<i>C. acqvabilis</i>	L	i	1	"		
^{2/6} <i>Brachycentrus occidentalis</i>	L	Bov	62	Hils 1985		
^{3/6} <i>Diplectrona modesta</i>	L	ii	2	Hils 1995		
^{4/6} <i>Lepidostoma</i>	L	i	1	"		
Ceratoda	L	iiii	4	"	imm	
<i>Hydrophylax argus</i>	L	i	1	"		
<i>Limnephilus</i>	L	i	1	"		
<i>Pycnopsyche</i>	L	ii	2	"		
<i>Polycentropus</i>	L	i	1	"		
<i>Optiosevus fastidius</i>	L	i	1	Hils Schm 1992		
<i>Bezzia/Palomyia</i>	L	iii	3	Hils 1995		
<i>Hemerodromia</i>	L	-iii	3	Court Mer 2008		
Simulium vittatum <i>Simulium vittatum</i> species complex	L	i	1	Ader et al 2004		
<i>Tanyta</i>	L	i	1	Hils 1995		
<i>Orthocladiinae</i> 08300001	P	i	1	Ferret et al 2006	dam	N
<i>Gammarus pseudolimnaeus</i>	A	xi	31	Hils 1972		
Trembidiformes	A	ii	2	Thorp Reg 2016	imm	N
<i>Hydrobates</i>	A	i	1	Pluch 1984		
Tubificinae (without hairs)	A	i	1	Klemm 1985		
<i>Lumbriculus</i>	A	-i	6	Thorp Reg 2016		
<i>Physa</i>	A	i	1	"		
<i>Pisidium</i>	A	ii	2	Burch 1972		
Split A3 Chironomidae	L	-xiii				
Erioptera	L	i	1	Hils 1995		
<i>Tanyptera</i> 08270000	L	i	1	Cranston 2013	imm	N
<i>Conchapelonia</i> 08270700	L	i	1	Cran Epl 2013		
<i>Zarelimyia</i>	L	x	10	"		
<i>Thienemannimyia</i> group	L	i	5	"	imm	n=1, Y
<i>Brillia</i>	L	ii	2	And t 3 2013	imm	N
<i>B. flavifrons</i>	L	-i	6	Epler 2001		

→ 3 taxa, TVAL ≤ 2.0

08 > (0.1 x 198)

