

Sample in 2 jars

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name UNNAMED	Waterbody ID Code 247900	Sample ID (YYYYMMDD-CY-FD) 20181101-70-02
Sampling Location		Database Key 168360444

SWIMS Station ID 10049901	SWIMS Station Name UN TRIB (WBIC 247900) TO PINE RIVER AT COUNTY H
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Latitude 44.1463	Longitude -88.95308	Lat/Long Determination Method (circle) <u>SWIMS</u> SWDV GPS	Datum Used if using GPS WGS84 or NAD83
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Basin (WMU) WOLF RIVER	Watershed Name PINE AND WILLOW RIVERS	County WAUSHARA
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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) 2.5	Number of Samples in Composite 2	Replicate No. <u>1</u> of <u>1</u>
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Reason For Sampling

Least Impacted Reference
 Baseline
 Impact / Treatment Site
 Control Site
 Trend
 Other: Targeted Watershed Assessment

Water Temp. (C) 7.1	D.O. (mg/l) 9.2	D.O. (% sat.) 77.8	pH (su) 7.3	Conductivity (umhos/cm) 455.7	Transparency (cm) 42
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Water Color <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Turbid <input type="checkbox"/> Stained	Estimated Stream Velocity (m/s) <input checked="" type="checkbox"/> Slow (< 0.15 m/s) <input 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 circle units m/s or f/s	Average Stream Depth of reach (m) 0.4	Average Stream Width of reach (m) 6
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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: 40
 Aquatic Macrophytes: 60 Leaf Snags: _____ Coarse Woody Debris: _____ Other (_____): _____

Embeddedness of Substrate at Sample Site (%) _____ **Canopy Cover at Sample Site (%)** 0

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	PL	PL	Dissolved Oxygen	PL	PL
- Planktonic Algae	N	N	Nutrients (P, N...)	PH	PH
Iron Bacteria	N	N	Toxics: - Inorganic (Metals)	N	N
Macrophytes	PH	PH	- 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	PH	PH
Channelization: - Upstream	PH	PH	- Construction	N	N
- Downstream	PL	PH	- Cropland	PH	PH
Hydraulic Scour / Channel Incision	N	N	- Urban	N	N
Impoundment: - Upstream	N	N	Septic Systems	N	N
- Downstream	N	N	Tile Drainage - Organic Soils	PL	PH
Low Flow	PH	PH	- Mineral Soils	PL	PL
Sedimentation	PH	PH	Springs	N	N
Sludge	N	N	Tributary(s)	PL	PH
Thermal	PL	PL	Wetland	PL	PL
Turbidity	PH	PH	Other - Specify:		
Other - Specify:					

Comments

Special Instructions for Laboratory

Sample in 2 jars

For Lab Use Only

Sample Sorter Abby Adams	Taxonomist Dimitri Jeffrey	Estimated Percent of Sample Sorted 20%
Date Processed 3-15-2019	Specimens Saved Subsample archived in ABL until May 2022	

A2 C3 E1 D3 B2 ES
 38 43 63

total = 144
 37 bags for

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Coenis	L	x		Kleb 2016	imm	N
C. punctata	L	u		"		
Coenagrionidae	L	-		West May 1986	imm	N
Erythronia	L	iii		"	imm	
Platthemis lydia	L	ii		Need et al 2000		
Platycentropus amicus	L	i		Wigg 1996		
Leucotrichia pictipes	L	i		Hils 1995		
Liodessus adonis	A	i		Hils 1994		
Haliphus Heanexus	A	i		Hils Bris 1978		
Deltodytes edentulus	A	-		"		
Hemerodromia	L	ii		Leut Mer 2008		
Gammarus pseudolimnaeus	A	-i		Hils 1972		
Hyalella willborni	A	0-iii		Soucek et al 2015		
Strobiloides	P	i		Fernald 2008		
Caecidotea racovitzai racovitzai	A	-		Will 1972		
Belostomatidae	A	i		Hils 1984a		
Neserocoris michiganensis	A	iii		"		
H. minor	A	i		"		
Ranatra fusca	A	i		"		
Notonecta lunata	A	ii		"		
Cyclopidae	A	iii		Thorp Reg 2016		
Tubificoninae (with hairs)	A	ii		Klemm 1985		
Physa	A	iii		Thorp Reg 2016		
Helisoma anceps	A	ii		Burch 1972		
Pisidium	A	x-i		Burch 1972		
Sphaerium	A	i		"		
Naidinae	A	i		Barnfield 1991		
Spiliza Chironomidae	L	T-300				
Polyneura	L	i	1	And + 3 2013		
Conchapelopia 08270700	L	i	1	Cran Epi 2013		
Clinotanypus	L	ii	2	"		
Zarelimyia	L	-i	6	"		
Procladius (Holtanypus)	L	iii	3	"		
Orthocladinae 08300000	L	i	1	Cranston 2013	mt indet	N
Manocladius (Manocladius) crassicornis / cf. rectinervis	L	i	1	Epler 2001		
Cricotopus (Isocladius) sylvestris group	L	x-iii	14	And + 3 2013		

