

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name NORTH BRANCH LITTLE RIVER	Waterbody ID Code 442800	Sample ID (YYYYMMDD-CY-FD) 20191017-43-05
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Sampling Location	Database Key 210284813
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SWIMS Station ID 10016965	SWIMS Station Name LITTLE RIVER - 84 M. UPSTREAM FROM BRIDGE ON JAGIELLO RD. <i>Belgian Rd</i>
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Latitude	Longitude	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
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Basin (WMU) GREEN BAY	Watershed Name LITTLE RIVER	County OCONTO
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Sample and Site Descriptors

Sample Collector (Last Name, First) ANDREW HUDAK	Project Name LITTLE RIVER TWA ASSESSMENT 2018, 2019
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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)	Estimated Area Sampled (m²)	Number of Samples in Composite	Replicate No. _____ of _____
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Reason For Sampling

Least Impacted Reference Baseline Impact / Treatment Site
 Control Site Trend Other: *TWA*

Water Temp. (C) 7.9	D.O. (mg/l) 96.3	D.O. (% sat.) 11.1	pH (su) 7.8	Conductivity (umhos/cm) 440.0	Transparency (cm)
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Water Color <input type="checkbox"/> Clear <input type="checkbox"/> Turbid <input checked="" 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 circle units m/s or f/s	Average Stream Depth of reach (m)	Average Stream Width of reach (m)
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 40 Gravel (ladybug to tennisball): 20
 Sand: 40 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (_____): _____

Embeddedness of Substrate at Sample Site (%) 20 **Canopy Cover at Sample Site (%)** 10

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	Watershed	Factors that may be influencing Water Resource Integrity	Local	Watershed
Biological			Chemical		
Algae: - Diatoms / Periphyton			Chlorine		
- Filamentous Algae			Dissolved Oxygen		
- Planktonic Algae			Nutrients (P, N...)		
Iron Bacteria			Toxics: - Inorganic (Metals)		
Macrophytes			- Organic (PCBs, pesticides...)		
Slimes			Other - Specify:		
Other - Specify:			Sources of Stream Impacts		
			Bank Erosion		
Physical			Point Source - Specify:		
Bank Erosion			Pasturing of Livestock		
Channelization: - Upstream			Runoff: - Barnyard		
- Downstream			- Construction		
Hydraulic Scour / Channel Incision			- Cropland		
Impoundment: - Upstream			- Urban		
- Downstream			Septic Systems		
Low Flow			Tile Drainage - Organic Soils		
Sedimentation			- Mineral Soils		
Sludge			Springs		
Thermal			Tributary(s)		
Turbidity			Wetland		
Other - Specify:			Other - Specify:		

Comments

Special Instructions for Laboratory

30 2C = 30
 50 1E = 20
 1A = 16
 1D = 19
 85
 105
 2A = 20
 1B = 27
 Total = 132

For Lab Use Only

Sample Sorter Murphy Steinhilber	Taxonomist Dimrek, Jeffrey	Estimated Percent of Sample Sorted 40%
Date Processed 1/16/2020	Specimens Saved Subsample archived in AB2 until Apr 2023	

Taxa	Life Stage	Benthic Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Acerpenna pygmaea</i>	L	III	3	Kluth 2016		
<i>Baetis flavispinus</i> species complex	L	II	2	"		
<i>Caenis punctata</i>	L	I	1	"	imm	N
<i>C. punctata</i>	L	VI	6	"		
<i>Leucocrota</i>	L	I	1	"		
<i>Maccaffertium vicarium</i>	L	III	3	"		
<i>Leptophlebia</i>	L	HT	5	"	imm	
<i>Boyeria vimbosa</i>	L	I	1	Ned et al 2000		
<i>Alloparania</i>	L	II	2	Hils 1995		
<i>Isopelta signata</i>	L	VI	7	Hils 1982		
<i>Taeniopteryx</i>	L	XIII	14	Hils 1995	imm	
<i>Protophila</i>	L	I	1	"		
<i>Chironomopsycha</i>	L	II	2	"		
<i>Decetis</i>	L	I	1	"	imm	
<i>Pycnopsycha</i>	L	I	1	"		
<i>Chironomus atterima</i>	L	I	1	Hils 1982		
<i>Dytiscus</i>	L	I	6	Hils Schm 1992	imm	N
<i>D. fastidius</i>	L	XII	17	"		
<i>Stenelmis</i>	L	II	2	"		
<i>Atherix variegata</i>	L	I	1	Hils 1995		
<i>Hemerodromia</i>	L	III	3	Gent Merr 2008		
<i>Chelipera</i>	L	II	2	"		
<i>StenotSimulium vittatum</i> species complex 08110208	L	II	2	Adl et al 2004		
<i>Chrysope</i>	L	I	1	Hils 1995		
<i>Anocha</i>	L	I	1	"		
<i>Dicranota</i>	L	III	3	"		
<i>Gammarus pseudolimnaeus</i>	A	III	4	Hils 1972		
<i>Caecidotca</i>	A	I	1	Will 1972	imm	
Tubificinae (without hairs)	A	I	1	Klemm 1985		
<i>Pisidium</i>	A	I	1	Mackie 2007		
<i>Procladius (Holotanyus)</i>	L	I	1	Cran EPI 2013		
<i>Orthocladinae</i> 08300000	L	I	1	Cranston 2013	imm	N
<i>Brillia</i>	L	I	1	Adl 3 2013	not needed imm	
<i>Cricotopus (Cricotopus) bicinctus</i> group	L	I	1	"		
<i>Lopescladius</i>	L	V	1	"		
<i>Orthocladus (Orthocladus)</i>	L	II	2	"		
<i>Parakiefferiella</i>	L	I	1	"		

>3 taxa, TVAL ≤ 2.0

27 > (0.1 x 133)

