

Instructions: **Bold** fields must be completed.

Station Summary			
Waterbody Name UNNAMED		Waterbody ID Code 443400	Sample ID (YYYYMMDD-CY-FD) 20181003-43-06
Sampling Location 15 m 05		Database Key 168765356	
SWIMS Station ID 10051525		SWIMS Station Name NORTH BRANCH LITTLE RIVER 180M DS CHARLOIS RD	
Latitude	Longitude	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
Basin (WMU) GREEN BAY		Watershed Name LITTLE RIVER	County OCONTO

Sample and Site Descriptors	
Sample Collector (Last Name, First) ANDREW HUDAK	Project Name LITTLE RIVER TWA ASSESSMENT 2018

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) 3	Estimated Area Sampled (m <sup>2</sup> ) 3	Number of Samples in Composite 1	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: TWA

Water Temp. (C) 15.09	D.O. (mg/l) 7.67	D.O. (% sat.) 78.1	pH (su) 7.95	Conductivity (umhos/cm) 658	Transparency (cm) >122
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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 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) 3	Average Stream Width of reach (m) 0.2
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Composition of Substrate Sampled (Percent):

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): 20 Rubble (tennisball to basketball): 30 Gravel (ladybug to tennisball): 20  
 Sand: 10 Clay: \_\_\_\_\_ Silt/Muck: 20 Overhanging Vegetation: \_\_\_\_\_  
 Aquatic Macrophytes: \_\_\_\_\_ Leaf Snags: \_\_\_\_\_ Coarse Woody Debris: \_\_\_\_\_ Other ( \_\_\_\_\_ ): \_\_\_\_\_  
 Embeddedness of Substrate at Sample Site (%) 40 Canopy Cover at Sample Site (%) 60

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

Comments

Special Instructions for Laboratory

**For Lab Use Only**

Sample Sorter <i>Sam Camarcho</i>	Taxonomist <i>Dimick Jeffrey</i>	Estimated Percent of Sample Sorted <i>13%</i>
Date Processed <i>2/27/19</i>	Specimens Saved <i>subsample archived in ABL until May 2027</i>	

*B2 C3*  
*120 89 209 Specs total*

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Baetidae <i>centropetiline</i>	L	i	1	Klub 2016	dam	Y
<i>Baetis intercalaris</i>	L		4	"		
<i>B. flavistriga</i> species complex	L		3	"		
<i>Acerpenna</i>	L	i	1	"	dam	N
<i>A. pygmaea</i>	L		4	"		
<i>Stenacron</i>	L		4	"	imm	
<i>Stenonema femoratum</i>	L		3	"		
<i>Leucophaea</i>	L	-	5	"		
<i>Maccaffertium</i>	L	"	2	"	imm	N
<i>M. vicarium</i>	L	⊗ i	31	"		
Heptageniidae	L	i	1	"	imm	N
Leptophlebiidae	L	⊗ -	35	"	dam/imm	N
<i>Leptophlebia</i>	L	o-	25	"	imm	
<i>Calopteryx maculata</i>	L	i	1	West May 1996		
<i>Cheumatopsyche</i>	L	⊗	21	Hils 1995		
<i>Hydropsyche</i>	L	i	1	"	imm	N
<i>H. betteni</i>	L	i	1	Schl Hils 1986		
<i>Psychomyia flavida</i>	L	i	1	Hils 1995		
<i>Dixiana</i>	L	i	1	Hils, Schl 1992		
<i>Antioservus</i>	L	i	1	"	imm	N
<i>O. fastidius</i> L.1 A.1	LA		2	"		
<i>Stenelmis</i>	L	x	10	"		
<i>Nemerocromis</i>	L	i	1	Court Merr 2008		
<i>Simulium</i>	L	"	2	Adl et al 2004	cyto	
<i>Limonia</i>	L	i	1	Hils 1995		
<i>Corynoneura</i>	P	i	1	Ferr et al 2008		
<i>Thremmannella</i>	P		2	"		N
<i>Cricotopus (Cricotopus)</i>	P		3	Adl et al 1986		N
<i>Aciptera</i>	A		4	Will 1972	imm	
<i>Lebertia</i>	A	i	1	Muck (1984)		
Naididae	A	i	1	Birnfeld 1991		
Tubificinae (without hairs)	A	i	1	Klemm 1985		Y
Tubificinae (with hairs)	A		3	"		Y
<i>Pisidium</i>	A	i	1	Burch 1972		
<del>Split Az Chironomidae</del>	<del>L</del>	<del>    </del>	<del>4</del>			
<i>Conchapelonia</i> 08270700	L		4	Conn Epl 2013		

