

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name LITTLE RIVER		Waterbody ID Code 441300	Sample ID (YYYYMMDD-CY-FD) 20181001-43-06
Sampling Location 50 ~ us riffle			Database Key 168363617
SWIMS Station ID 433048		SWIMS Station Name LITTLE R - CTH A ABOVE JONES CRK	
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
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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) 3	Estimated Area Sampled (m²) 4	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: TWA

Water Temp. (C) 10.31	D.O. (mg/l) 11.96	D.O. (% sat.) 107.4	pH (su) 8.61	Conductivity (umhos/cm) .603	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 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) 10.3	Average Stream Width of reach (m) 15
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): 20 Rubble (tennisball to basketball): 50 Gravel (ladybug to tennisball): 30
 Sand: 10 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: 10 Coarse Woody Debris: _____ Other (): _____
 Embeddedness of Substrate at Sample Site (%): 40 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		PH	PH	Chlorine		N	N
- Filamentous Algae		PL	PL	Dissolved Oxygen		N	N
- Planktonic Algae		N	N	Nutrients (P, N...)		PL	PL
Iron Bacteria		U	U	Toxics: - Inorganic (Metals)		N	N
Macrophytes		PL	U	- Organic (PCBs, pesticides..)		N	U
Slimes		N	N	Other - Specify:			
Other - Specify:				Sources of Stream Impacts			
				Bank Erosion		U	U
				Point Source - Specify:		N	N
Physical				Pasturing of Livestock		N	U
Bank Erosion		N	PL	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		N	N	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>JACOB BULITZ</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>7%</i>
Date Processed <i>2/18/2019</i>	Specimens Saved <i>Subsample analyzed in ABC until May 2022</i>	

TOTAL SORT TIME: 110min
 START: 9:00 END: 10:50
 AZ 283

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Aconecia lycorias</i>	L	i	1	Hitch 1974		
<i>Paragnetina media</i>	L	1	1	Hils 1995		
<i>Isoperla signata</i>	L	ii	2	Hils 1992		
<i>Taeniopteryx</i>	L	ii	2	Hils 1995	imm	
Baetidae	L	# 1	1	Klob 2016	dam	N
<i>Baetis intercalaris</i>	L	ii	2	"		
<i>B. flavistriga</i> species complex	L	0-ii	22	"		
<i>Acerpenna pygmaea</i>	L	-	5	"		
<i>Acerpenna</i>	L	ii	2	"	dam	N
<i>Placiditus</i>	L	1	1	"	dam	
<i>Isaon anoka</i>	L	iiii	4	"		
<i>Caenis anceps</i>	L	iiii	4	"		
Heptageniidae	L	1	1	"	imm	N
<i>Leucocuta</i>	L	0-iiii	29	"		
<i>Maccaffertium</i>	L	x-	15	"	imm	Y
<i>M. mediopunctatum</i>	L	0-ii	27	"		
<i>M. vicarium</i>	L	-iii	9	"		
Leptophlebiidae	L	-ii	8	"	dam/imm	N
<i>Leptophlebia</i>	L	-1	6	"	imm	
<i>Isonychia</i>	L	-	5	"	imm	N
<i>I. rufa</i>	L	1	1	"		
Hydropsychidae	L	1	1	Hils 1995	imm	N
<i>Cheumatopsyche</i>	L	x-iiii	19	"		
<i>Hydropsyche</i>	L	1	1	"	imm	N
<i>H. beltzoni</i>	L	ii	2	Schmitt Hils 1986		
<i>Ceratopsyche</i>	L	-	5	Hils 1995	imm	N
<i>C. alhedra</i>	L	ii	2	Schmitt Hils 1986		
<i>C. branta</i>	L	0-1	21	"		
<i>C. morosa bifida</i> form	L	1	1	"		
<i>Hydroptila</i>	L	1	1	Wigg 1996		
<i>Leucotrichia pictipes</i>	L	1	1	Hils 1995		
<i>Psychomyia flavida</i>	L	1	1	"		
<i>Optioervus</i>	L	x-1	16	Hils Schmitt 1992	imm	N
<i>O. fastiditus</i>	L	ii	2	"		
<i>O. trivittatus</i> L, ii A, 1	L, A	x-ii	12	"		
<i>Stenelmis</i>	L	iiii	4	"		N
<i>S. crenata</i>	A	1	1	"		
<i>Prephenus herricki</i>	L	-iiii	9	"		

