

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name NORTH FORK THUNDER RIVER	Waterbody ID Code 535600	Sample ID (YYYYMMDD-CY-FD) 20171005-38-02
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Sampling Location 80m 46 Thunder MTN Rd	Database Key 149418053
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SWIMS Station ID 10030422	SWIMS Station Name N FORK THUNDER RIVER US OF THUNDER MOUNTIAN RD
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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 MIDDLE PESHTIGO AND THUNDER RIVERS	County MARINETTE
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Sample and Site Descriptors

Sample Collector (Last Name, First) ANDREW HUDAK	Project Name NER LONG-TERM TREND WADEABLE REFERENCE STREAMS
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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 (m ²) 3	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 Long term	☐ Other: _____

Water Temp. (C) 9.75	D.O. (mg/l) 11.78	D.O. (%sat.) 105.1	pH (su) 7.96	Conductivity (umhos/cm) 242	Transparency (cm) 7/22
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Water Color ☒ Clear ☐ Turbid ☐ Stained	Estimated Stream Velocity (m/s) ☐ Slow (< 0.15 m/s) ☒ Moderate (0.15 m/s - 0.5 m/s) ☐ Fast (> 0.5 m/s)
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Measured Velocity circle units m/s or f/s	Average Stream Depth of reach (m) 0.3	Average Stream Width of reach (m) 8.0
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Composition of Substrate Sampled (Percent):

Bedrock: _____	Boulders (basketball or larger): 50	Rubble (tennisball to basketball): 20	Gravel (ladybug to tennisball): 10
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Sand: 20	Clay: _____	Silt/Muck: _____	Overhanging Vegetation: _____
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Aquatic Macrophytes: _____	Leaf Snags: _____	Coarse Woody Debris: _____	Other (): _____
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Embeddedness of Substrate at Sample Site (%) 50	Canopy Cover at Sample Site (%) 60
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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	✓	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
Physical			Point Source - Specify:	N	N
Bank Erosion	N	N	Pasturing of Livestock	N	N
Channelization: - Upstream	N	N	Runoff: - Barnyard	N	N
- Downstream	N	N	- Construction	N	N
Hydraulic Scour / Channel Incision	N	N	- Cropland	N	N
Impoundment: - Upstream	N	N	- Urban	N	N
- Downstream	N	N	Septic Systems	N	N
Low Flow	N	N	Tile Drainage - Organic Soils	N	N
Sedimentation	N	N	- Mineral Soils	N	N
Sludge	N	N	Springs	✓	✓
Thermal	N	N	Tributary(s)	N	N
Turbidity	N	N	Wetland	N	N
Other - Specify:			Other - Specify:		

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter: Sam Lamarche	Taxonomist: Dimick, Jeffrey	Estimated Percent of Sample Sorted: 70%
Date Processed: 10/24/18	Specimens Saved: Subsample archived in AB Lab 1 Jan 2022	

2C

228 spec so far in 1 sub sample

Not complete

333 specs

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Paracappnia angulata</i>	L	1	1	Hils 1974		
<i>Isonychia</i>	L	1	1	Hils 1995	imm	N
<i>I. lata</i>	L	1	1	Hils 1982		
<i>I. transmarina</i>	L	1	5	"		
<i>Pteronarcys</i>	L	1	1	Hils 1995	imm	
<i>Taeniopteryx</i>	L	1	5	"	imm	
<i>Baetis tricaudatus</i>	L	III	3	KWB 2016		
<i>Ephemerellidae</i>	L	1	1	"	imm	N
<i>Ephemerella</i>	L	0-100	30	"	imm	N
<i>E. invasa</i>	L	1	5	"		
<i>E. subvaria</i>	L	0-11	27	"		
<i>Rhythrogena</i>	L	21	2	"	imm	
<i>Maccaffertium</i>	L	1	1	"	imm	
<i>Leptophlebiidae</i>	L	III	4	"	dam/imm	N
<i>Paraleptophlebia</i>	L	III	3	"	dam	N
<i>P. mollis</i>	L	1	1	"		
<i>Brachycentrus americanus</i>	L	11	2	Hils 1985		
<i>B. occidentalis</i>	L	1	5	"		
<i>Glossosoma rusticum</i>	L	1	6	"		
<i>Glossosoma</i>	L	1-100	10	Hils 1995	imm	
<i>Hydropsychidae</i>	L	III	3	"	imm	N
<i>Ceratopsycha</i>	L	1	1	"	imm	N
<i>C. sparna</i>	L	0-1	25	Schm Hils KIB6		
<i>Lepidostoma</i>	L	2-11	13	Hils 1995		
<i>Brachycentrus</i>	L	1	1	"	imm	N
<i>Delocheilus distinctus</i>	L	XII	12	"		
<i>Goera styliata</i>	L	1	1	"		
<i>Neophylax</i>	L	III	3	"	imm	
<i>Optioservus</i>	L	III	4	Hils Schm 1992	imm	N
<i>O. fastiditus</i>	A	1	1	"		
<i>Atherix variegata</i>	L	1-11	7	Hils 1995		
<i>Simulium tuberosum</i> species complex	L	XI	11	Adl et al 2004		
<i>Chironomus</i>	L	1	1	Hils 1995		
<i>Antocha</i>	L	III	3	"		
<i>Dixaneta</i>	L	1	1	"		
<i>Hesperocampa dolichophallus</i>	L	1	1	"		
<i>Naididae</i>	A	1	1	Thorp Reg 2016	post frag	

Taxonomist: Dimick, Jeffrey

SWIMS Database Key: 149418053

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