

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name UPPER TAMARACK RIVER	Waterbody ID Code 2686200	Sample ID (YYYYMMDD-CY-FD) 2081102-16-02
Sampling Location 20m vs City RT		Database Key 168634598

SWIMS Station ID 163410	SWIMS Station Name UPPER TAMARACK RIVER AT CTH T
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Latitude 46.1648	Longitude 92.28432	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
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Basin (WMU) ST. CROIX	Watershed Name UPPER TAMARACK RIVER	County DOUGLAS
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Sample and Site Descriptors

Sample Collector (Last Name, First) CRAIG ROESLER	Project Name NORTH DISTRICT NC STREAM STRATIFIED SITES 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) 1	Estimated Area Sampled (m²) 1.5	Number of Samples in Composite 3-20k etc	Replicate No. 1 of 1
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Reason For Sampling

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

Water Temp. (C) 7.8	D.O. (mg/l) 12.92	D.O. (% sat.) 99.2	pH (su) 7.78	Conductivity (umhos/cm) 42.7	Transparency (cm) 7.12
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Water Color <input 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 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): 10 Rubble (tennisball to basketball): 50 Gravel (ladybug to tennisball): 30
 Sand: 10 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (): _____

Embeddedness of Substrate at Sample Site (%) <u>10%</u>	Canopy Cover at Sample Site (%) <u>10</u>
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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		PL		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			
				Point Source - Specify:			
Physical				Pasturing of Livestock			
Bank Erosion		✓	✓	Runoff: - Barnyard			
Channelization: - Upstream				- Construction			
- Downstream				- Cropland			
Hydraulic Scour / Channel Incision				- Urban			
Impoundment: - Upstream		✓	✓	Septic Systems			
- Downstream		✓	✓	Tile Drainage - Organic Soils			
Low Flow				- Mineral Soils			
Sedimentation				Springs			
Sludge				Tributary(s)			
Thermal				Wetland			
Turbidity - 1				Other - Specify:			
Other - Specify:							

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter Abby Adams	Taxonomist Dimitri Jeffrey	Estimated Percent of Sample Sorted 13%
Date Processed 9-4-19	Specimens Saved 133	

C2 70
 D2 63

133 total specs subsample archived in ABL until Nov 2022

Wisconsin Department of Natural Resources

ABL SampleNum: 20181102-16-02

Taxonomist: Dimick, Jeffrey

Waterbody: Upper Tamarack River

SWIMS Database Key: 168634598

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Paracapnia angulata</i>	L	0	20	Hitch 1974		
<i>Acanocurva</i>	L	1	1	Hils 1995	imm	
<i>Isoperla</i>	L	1	1	"	imm	
<i>Tachipteryx</i>	L	1	1	"	imm	
<i>T. burksi</i>	L	1	5	Full Stew 1980		
<i>Allocapnia</i>	L	1	1	Hils 1995		
<i>Acanpenna macdunnoughi</i>	L	1	1	Kleb 2016		
<i>A. pygmaea</i>	L	1111	9	"		
<i>Caenis</i>	L	1	1	"	imm	N
<i>C. punctata</i>	L	11	2	"		
<i>Eurylophella</i>	L	21	26	"	imm	N
<i>E. temporalis</i>	L	111	3	"		
<i>Leucocrita</i>	L	11	7	"		
<i>Mocanthertonium vicarium</i>	L	x1	11	"		
<i>Leptophlebia</i>	L	1	6	"	imm	
<i>Paraleptophlebia</i>	L	1	5	"		
<i>Dibriophila</i>	L	11	2	Hils & Schm 1992		
<i>Macronychus glabreatus</i>	L	1	1	"		
<i>Optoserpus</i>	L	1	1	"	imm	
<i>Stenelmis</i>	L	11	2	"		
<i>Hemerodromia</i>	L	1	1	Court Mett 2008		
<i>Hexatoma</i>	L	1	1	Hils 1995		
<i>Hesperocerixa atopodonta</i>	A	11	2	Hils 1984 a		
<i>Tribicnemae (without hairs)</i>	A	1	1	Klemm 1985		Y
<i>Tribicnemae (with hairs)</i>	A	1	1	"		Y
<i>Procladius</i>	L	1	1	Cran Epl 2013	imm	
<i>Zaurelomyia</i>	L	1	1	"		
<i>Micropsectra</i>	L	11	2	Epl et al 2013		
<i>Microtendipes rydalenis</i> group	L	1	1	"		
<i>Paratanytarsus</i>	L	1	1	"	mtndet	N
<i>P. species A</i>	L	1	6	Hils unpubl.		
<i>Phaenopsectra obediens</i>	L	1	1	Bolton 2012		
<i>Ph. punctipes</i>	L	1	1	"		
<i>Stictochironomus</i>	L	1	1	Epl et al 2013		
<i>Tanytarsus</i>	L	1	6	"		