

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name NORTH FORK EAU CLAIRE RIVER	Waterbody ID Code 2145400	Sample ID (YYYYMMDD-CY-FD) 20181023-18-10
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Sampling Location 30m DS @ Riffle	Database Key 169406469
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SWIMS Station ID 10010402	SWIMS Station Name N. FORK EAU CLAIRE RIVER 1.5 MILE S OF CTH H AND CTH MM (CTH H)
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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) LOWER CHIPPEWA	Watershed Name NORTH FORK EAU CLAIRE RIVER	County EAU CLAIRE
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Sample and Site Descriptors

Sample Collector (Last Name, First) CHRISTOPHER J WILLGER, MYCAL C RALEIGH	Project Name MACROINVERTEBRATE SPATIAL ANALYSIS
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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) 2	Estimated Area Sampled (m²) 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
 Other: _____

Water Temp. (C) 6.1	D.O. (mg/l) 11.79	D.O. (% sat.) 94.9	pH (su) 7.7	Conductivity (umhos/cm) 161.0	Transparency (cm) 7120
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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 type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input checked="" 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) 1.3	Average Stream Width of reach (m) 10
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 10 Gravel (ladybug to tennisball): 30
 Sand: 10 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: 20 Coarse Woody Debris: 30 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	N	U	Chlorine	U	U
- Filamentous Algae	N	U	Dissolved Oxygen	N	U
- Planktonic Algae	N	U	Nutrients (P, N...)	U	U
Iron Bacteria	N	U	Toxics: - Inorganic (Metals)	U	U
Macrophytes	N	U	- Organic (PCBs, pesticides...)	U	U
Slimes	N	U	Other - Specify:	U	U
Other - Specify:			Sources of Stream Impacts		
			Bank Erosion	PL	U
			Point Source - Specify:	N	N
Physical			Pasturing of Livestock	N	PH
Bank Erosion	PL	U	Runoff: - Barnyard	N	PL
Channelization: - Upstream	N	U	- Construction	N	U
- Downstream	N	U	- Cropland	N	PH
Hydraulic Scour / Channel Incision	U	U	- Urban	N	U
Impoundment: - Upstream	N	U	Septic Systems	N	U
- Downstream	N	U	Tile Drainage - Organic Soils	N	U
Low Flow	U	U	- Mineral Soils	N	U
Sedimentation	U	U	Springs	U	U
Sludge	N	U	Tributary(s)	U	U
Thermal	N	U	Wetland	U	U
Turbidity	N	U	Other - Specify:		
Other - Specify:					

Comments

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter Logan Cutler	Taxonomist Dimick, Jeffrey	Estimated Percent of Sample Sorted 27%
Date Processed 6/24/19	Specimens Saved 85 + 31 + 45 + 48 = 159	

DS B3 D1 E3 Total
 subsample archived in ABL until Aug 2022

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Allocaenia	L	xviii	19	Hils 1995		
Isoperla	L	1	1	"	imm	N
I. signata	L	✓	5	Hils 1982		
Perlidae	L	1	1	Hils 1995	imm	
Taeniopterygidae	L	"	2	"	imm	Y
Taeniopteryx	L	xiii	14	"	imm	N
T. birtsi	L	801	61	Full Stew 1980		
Acerpenna pygmaea	L	1	1	Kub 2016		
Caenis	L	"	2	"	imm	N
C. latipennis	L	"	2	"		
Eurylophella	L	"	2	"	imm	
Heptageniidae	L	"	2	"	imm	N
Maccaffertium	L	iiii	4	"	imm	Y
M. mediopunctatum	L	i	2	"		
Leptophlebia	L	1	1	"	imm	
Paraleptophlebia	L	"	2	"	imm	
Macronia illinoense	L	1	1	Need et al 2000		
Cheumatopsyche	L	1	1	Hils 1995		
Ceratopsyche bronta	L	1	1	Schmitt Hils 1986		
Limnephilidae	L	101	1	Hils 1995	imm	N
Pycnopsyche	L	"	2	"		
Optiosevus	L	1	1	Hils Schmitt 1992	imm	N
O. fastiditus	L	1	1	"		
Stenelmis	L	1	1	"		
Bezzia/Palpomysia	L	1	1	Hils 1995		
Ephydriidae	P	1	1	Merr Webb 2008		
Naididae	A	-ii	7	Brin Geld 1991		
Sphaerium	A	1	1	Mackie 2007		
split A2 Chironomidae	L	xiiii-vii				
Brillia	L	1	1	And + 3 2013	imm	
Lopescladius	L	1	1	"		
Cladotanytarsus	L	-iii	8	Epl et al 2013		
Thienemannimyia	L	1	1	Crane Epl 2013		
Orthocladinae 08300000	L	✓	5	Crane Stan 2013	imm	Y
Diplocladius	L	1	1	And + 3 2013		
Demicryptochironomus	L	1	1	Epl et al 2013		

