

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name NORTH FORK EAU CLAIRE RIVER		Waterbody ID Code 2145400	Sample ID (YYYYMMDD-CY-FD) 20181022-10-07
Sampling Location @ CTH X ; DS bridge ~80m			Database Key 169406461
SWIMS Station ID 103103	SWIMS Station Name EAU CLAIRE NORTH FORK - NW1/40FNW1/4 SEC34		(CTH X)
Latitude	Longitude	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
Basin (WMU) LOWER CHIPPEWA		Watershed Name NORTH FORK EAU CLAIRE RIVER	County CLARK

Sample and Site Descriptors

Sample Collector (Last Name, First) CHRISTOPHER J WILLGER, MYCAL C RALPH	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) 45 seconds	Estimated Area Sampled (m²) 1m ²	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) 5.7	D.O. (mg/l) 11.85	D.O. (% sat.) 94.4	pH (su) 7.95	Conductivity (umhos/cm) 226.6	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) 0.1	Average Stream Width of reach (m) 6
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): 80 Rubble (tennisball to basketball): 20 Gravel (ladybug to tennisball): _____
 Sand: _____ Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (): _____

Embeddedness of Substrate at Sample Site (%) 0 **Canopy Cover at Sample Site (%)** 80

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

Comments Large boulders and cobble make up most of substrate. Non-native Phragmites along road ~75m from river.
 Initial Sample ID 20181022-10-07a

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter Kyla Wilcox	Taxonomist Derrick Jeffrey	Estimated Percent of Sample Sorted 47%
Date Processed 6/20/18	Specimens Saved 126	

A1 = }
 A3 = } 40
 D2 = }

C1 = }
 C3 = } 64
 B2 = }

E3 = 22 subsample archived in ABC until Aug 2022
 126

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Allocapnia</i>	L	xiii	14	Hils 1995		
<i>Paracapnia angulata</i>	L	1	1	Hitch 1974		
<i>Isoperla signata</i>	L	1	1	Hils 1982		
<i>Acmenna</i>	L	1	1	Klob 2016	dam	N
<i>A. pygmaea</i>	L	1	10	"		
<i>caenis</i>	L	1	1	"	imm	
Heptageniidae	L	iii	3	"	imm	N
<i>Stenonema demoratum</i>	L	ii	2	"		
<i>Leucocroca</i>	L	xi	11	"		
<i>Stenacron</i>	L	iii	3	"	imm	
<i>Maccaffertium</i>	L	iiii	4	"	imm	N
<i>M. mediopunctatum</i>	L	ii	2	"		
<i>M. vicarium</i>	L	31	31	"		
<i>Leptophlebia</i>	L	1	1	"	imm	
<i>Paraleptophlebia</i>	L	iii	8	"	imm	
<i>Maccaffertium modestum</i>	L	i	1	"		
<i>Cheumatopsyche</i>	L	1	5	Hils 1995		
<i>Ceratopsyche</i>	L	1	1	"	imm	Y
<i>C. branta</i>	L	1	1	Schm Hils 1986		
<i>Neophylax</i>	L	1	1	Hils 1995	imm	
<i>Psychomyia flavida</i>	L	1	1	"		
<i>Otioservus fastidius</i>	L	ii	2	Hils Schm 1992		
<i>Stenelmis crenata</i>	A	ii	2	"		
<i>Mallecoptera</i>	L	1	1	Hils 1995		
<i>Nemeroptera</i>	L	1	1	Court Merr 2008		
<i>Lebertia</i>	A	i	1	Pluch 1984		
Dugesiiidae	A	iii	3	Thorp Reg 2016		
Tubificinae (without hairs)	A	i	1	Klemm 1985		Y
Tubificinae (with hairs)	A	ii	2	"		Y
Pisidium	A	ii	2	Mackre 2007		
Spit A, Chironomidae	L	xiii				
<i>Procladius rusticus</i>	A	1	1	Hobbs Jass 1988		
Daphniidae	A	8xiii	53	Thorp Reg 2016		
<i>Microtendipes pedellus</i> group	L	ii	2	Epl et al 2013		
<i>Conchapelopia</i> 08270700	L	-	5	Cran Epl 2013		
<i>Diplocladius</i>	L	1	1	And + 3 2013		

