

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name NORTH BRANCH EMBARRASS RIVER	Waterbody ID Code 301300	Sample ID (YYYYMMDD-CY-FD) 20201022-59-01
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Sampling Location	Database Key 258672006
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SWIMS Station ID 593129	SWIMS Station Name EMBARRASS RIVER NORTH BRANCH AT CTH D
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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) WOLF RIVER	Watershed Name NORTH BRANCH AND MAINSTEM EMBARRA	County SHAWANO
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Sample and Site Descriptors

Sample Collector (Last Name, First) ANDREW HUDAK	Project Name 2020 TWA STRASSBURG CREEK- NORTH BRANCH EMBARRA
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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) 4	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: TWA

Water Temp. (C) 3.5	D.O. (mg/l) 11.3	D.O. (% sat.) 85.3	pH (su)	Conductivity (umhos/cm) 250.6	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) 5	Average Stream Width of reach (m) 7
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 40 Gravel (ladybug to tennisball): 30

Sand: 30 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____

Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (____): _____

Embeddedness of Substrate at Sample Site (%) 50
Canopy Cover at Sample Site (%) 40

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

Comments

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter Raatz, Trevor	Taxonomist Dimick, Jeffrey	Estimated Percent of Sample Sorted 7.8
Date Processed 9/16/2021	Specimens Saved Subsample archived 126 in ABL until Oct 2024	

B4Q2:24 D3Q2:97:23
 D3Q1:32:8 B4Q3:126:29
 B4Q1:74:42

126

Wisconsin Department of Natural Resources

ABL SampleNum: 20201022-59-01

Taxonomist: Dimick, Jeffrey

Waterbody: North Branch Embarrass River

SWIMS Database Key: 258672006

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Taxa	Life Stage	Benthic Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Baetis flavistriga species complex	L	III	3	Kub 2016		
Baetisca laurentina	L	I	1	"		
Ephemera	L	XIII	14	MCB 2019	imm	N
E. invarra	L	III	8	Kub 2016		
E. subvarra	L	II	2	"		
Teloganopsis deficiens	L	II	2	"		
Macaferetium	L	IIIV	4	"	imm	N
M. vicarium	L	I	1	"		
Paracapnia angulata	L	I	1	Hitch 1974		
Isonyia	L	I	1	MCB 2019	imm	
Taeniopteryx	L	II	3	"	imm	N
T. burksi	L	II	2	Fell Stew 1980		
Ceratopsyche bronca	L	I	1	Schm Hils 1986		
Chematosyche	L	I	1	MCB 2019		
Lepidostoma	L	I	1	"		
Pycnopsyche	L	III	3	"		
Psychomyia flavida	L	II	2	Hils 1995		
Dolioserius	L	I	6	MCB 2019	imm	N
D. trivittatus	L	I	1	Hils Schm 1992		
Hemerodromia	L	I	1	MCB 2019		
Antocha	L	I	6	"		
Gammarus pseudolimnoides	A	BI	41	Hols 1972		
Ferussia rivularis	A	I	1	Thorp Reg 2016		
Naidinae	A	DI	31	Kahn Brin 1988		
Split A7 Chironomidae	L	XIII	14			
Cladotanytarsus	L	III	9	And et al 2013		
Microtendipes pedellus group	L	I	1	"		
Mesorelopsia	L	I	1	"		
Orthocladiinae	L	I	1	"	imm	N
Orthocladius (Symptetracloides) annexus	L	II	2	"		
Chironominae	L	II	2	"	not ident	N
Micropsectra	L	II	2	"		
Microtendipes mdalensis group	L	II	2	"		
Paratanytarsus longistilus	L	I	1	"		
Polypedium (Uresipedium) auriceps	L	I	1	Balch 2012		
Tanytarsus	L	II	2	And et al 2013		