State of Wisconsin
Department of Natural Resources
PO Box 7291, Madison WI 53707-7291
dnr.wi.gov

Wadeable Macroinvertebrate Field Data Report

Form 3200-081 (R 8/14)

Instructions: **Bold** fields must be completed.

Station Summary

Waterbody Name	**Waterbody ID Code**	**Sample ID (YYYYMMDD-CY-FD)**
NORTH BRANCH EMBARRASS RIVER	301300	20201015-59-05

Sampling Location	**Database Key**
	258672010

SWIMS Station ID	**SWIMS Station Name**
10034819	N BR EMBARRASS R AT RIVER RD

Latitude	**Longitude**	**Lat/Long Determination Method (circle)**	**Datum Used if using GPS**
		SWIMS SWDV GPS	WGS84 or NAD83

Basin (WMU)	**Watershed Name**	**County**
WOLF RIVER	NORTH BRANCH AND MAINSTEM EMBARRA	SHAWANO

Sample and Site Descriptors

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

Sampling Device

- [x] D-Frame Kick Net
- [ ] Surber Sampler
- [ ] Eckman
- [ ] Ponar
- [ ] Artificial Substrate
- [ ] Hess Sampler
- [ ] Other: _____

Habitat Sampled

- [x] Riffle
- [ ] Run
- [ ] Pool
- [ ] Other
- [ ] Shoreline Composite
- [ ] Proportionally-Sampled Habitat
- [ ] Littoral Zone
- [ ] Profundal Zone
- [ ] Wetland

Total Sampling Time (min)	**Estimated Area Sampled (m^2)**	**Number of Samples in Composite**	
5	6	1	**Replicate No.** 1 **of** 1

Reason For Sampling

- [ ] Least Impacted Reference
- [ ] Baseline
- [ ] Impact / Treatment Site
- [ ] Control Site
- [ ] Trend
- [x] Other: TWA

Water Temp. (C)	**D.O. (mg/l)**	**D.O. (% sat.)**	**pH (su)**	**Conductivity (umhos/cm)**	**Transparency (cm)**
7.1	10.5	87		347	>122

Water Color

- [x] Clear
- [ ] Turbid
- [ ] Stained

Estimated Stream Velocity (m/s)

- [ ] Slow (< 0.15 m/s)
- [x] Moderate (0.15 m/s - 0.5 m/s)
- [ ] Fast (> 0.5 m/s)

Measured Velocity circle units m/s **or** f/s	**Average Stream Depth of reach (m)**	**Average Stream Width of reach (m)**
	.3	5

Composition of Substrate Sampled (Percent):

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

Sand: 40 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____

Aquatic Macrophytes: _____ Leaf Snags: 20 Coarse Woody Debris: _____ Other (_____): _____

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

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

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter	Taxonomist	Estimated Percent of Sample Sorted
Elwer, Brenden	Dimick, Jeffrey	4.68%
Date Processed	**Specimens Saved**	
9-14-2021	Subsample archived in ABL until Oct 2024	

D4 Q1 55 C1 Q1 62
Q2 64 Q2
Q4 Q3
Q3 Q4

Wisconsin Department of Natural Resources
ABL SampleNum: **20201015-59-05**
Taxonomist: Dimick, Jeffrey

Waterbody: **North Branch Embarrass River**
SWIMS Database Key: **258672010**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Baetis brunneicolor	L	IIII	4	Klub 2016		
B. flavistriga species complex	L	III	3	"		
Ephemerella	L	II	2	MCB 2019	imm	Y
E. subvaria	L	II	2	Klub 2016		
Epeorus vitreus	L	I	1	"		
Maccaffertium	L	II	2	"	imm	N
M. vicarium	L	IIII	4	"		
Leptophlebia	L	I	1	MCB 2019	imm	
Neoleptophlebia	L	I	1	"		
corduligaster	L	II	2	"	dam/imm	
Allocapnia	L	II	2	"		
Paracapnia angulata	L	IIII	21	Hitch 1974		
Perlodidae	L	I	1	MCB 2019	imm	N
Isoperla	L	I	1	"	imm	
Taeniopteryx	L	-I	6	"	imm	
Brachycentrus occidentalis	L	-	5	Hils 1985		
Glossosoma intermedium	L	I	1	WynMor 2000		
Ceratopsyche slossonae	L	-	5	Schm Hils 1986		
C. sparna	L	I	1	"		
Cheumatopsyche	L	IIII	23	MCB 2019		
Hydropsyche	L	II	2	Hils 1995	imm	N
H. betteni	L	-II	7	Schm Hils 1986		
Chimarra aterrima	L	I	1	Hils 1982		
Neophylax	L	II	2	MCB 2019	imm	
Micronychus glabratus	L	I	1	Hils Schm 1992		
Optioservus	L	-III	9	MCB 2019	imm	N
O. fastiditus L.1 A.1	L/A	II	2	Hilsschm 1992		
Stenelmis	L	I	1	MCB 2019		N
S. crenata	A	III	3	Hils Schm 1992		
Hemerodromia	L	I	1	MCB 2019		
Neoplasta	L	I	1	"		
Antocha	L	I	1	"		
Dicranota	L	I	1	"		
Gammarus pseudolimnaeus	A	0	20	Hols 1972		
Sperchonidae	A	I	1	Peckarsky et al 1990		
Mermithidae	A	II	2	Thom Pos 2016		
Naidinae	A	I	1	Kath Brin 1998		

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Tubificinae (w/o hairs)	A	1	1	Kath Brin 1998		
~~Subfam chironomitae~~	~~L~~	~~x1~~				
Brillia	L	1	1	And et al 2013	imm	N
B. flavifrons	L	1	1	Epler 2001		
Corynoneura	L	1	1	And et al 2013		
cladotanytarsus	L	0-1	26	"		
Metapelopia	L	"	2	"		
Parametriocnemus	L	1	1	"		
Thienemanniella	L	1	1	"	imm	N
Texera	L	1	1	Bolton 2012		
Microspectra	L	1	1	And et al 2013		
Microtendipes rydalensis group	L	1	1	"		
Polypedilum (Uresipedilum) aviceps	L	111	3	Bolton 2012		
Tanytarsus	L	1	1	And et al 2013		