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	20201026-59-03

Sampling Location	**Database Key**
	258672026

SWIMS Station ID	**SWIMS Station Name**
10040447	NB EMBARRASS RIVER 300 YDS DS DNR RANGER STATION DAM

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**	
6	4	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)**
2.3	13.5	98.6		.211	>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)**
	.4	10

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): 30 Rubble (tennisball to basketball): 40 Gravel (ladybug to tennisball): 20

Sand: 10 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____

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

Embeddedness of Substrate at Sample Site (%) 70 **Canopy Cover at Sample Site (%)** 90

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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
Biological		
Algae: - Diatoms / Periphyton	N	N
- Filamentous Algae	N	N
- Planktonic Algae	N	N
Iron Bacteria	N	N
Macrophytes	N	N
Slimes	N	N
Other - Specify:		
Physical		
Bank Erosion	N	U
Channelization: - Upstream	N	N
- Downstream	N	N
Hydraulic Scour / Channel Incision	N	N
Impoundment: - Upstream	N	N
- Downstream	N	N
Low Flow	N	N
Sedimentation	N	N
Sludge	N	N
Thermal	N	N
Turbidity	N	N
Other - Specify:		

Factors that may be influencing Water Resource Integrity	Local	Water-shed
Chemical		
Chlorine	N	U
Dissolved Oxygen	N	N
Nutrients (P, N...)	N	U
Toxics: - Inorganic (Metals)	N	N
- Organic (PCBs, pesticides...)	N	U
Other - Specify:		
Sources of Stream Impacts		
Bank Erosion	N	U
Point Source - Specify:	N	N
Pasturing of Livestock	N	U
Runoff: - Barnyard	N	U
- Construction	N	N
- Cropland	N	U
- Urban	N	N
Septic Systems	N	U
Tile Drainage - Organic Soils	N	U
- Mineral Soils	N	U
Springs	U	U
Tributary(s)	U	U
Wetland	U	U
Other - Specify:		

Comments

sample poorly preserved SS

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter	Taxonomist	Estimated Percent of Sample Sorted
Reed, Kayla	Dimick, Jeffrey	14%
Date Processed	**Specimens Saved**	
9-21-21	129 Subsample archived in ABX until Oct 2024	

D2Q4 → 12 A2Q2 → 8 D2Q3 → 24
A2Q1 → 3 C1Q3 → 30
D2Q1 → 45 C1Q2 →
A2Q4+3 → 7 O1Q4 →

D4 → C4 → B3 → A3 →
C4 →

Wisconsin Department of Natural Resources
ABL SampleNum: **20201026-59-03**
Taxonomist: Dimick, Jeffrey

Waterbody: **North Branch Embarrass River**
SWIMS Database Key: **258672026**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Baetidae	L	I	1	MCB 2019	dam	
Maccaffertium vicarium	L	I	1	Klub 2016		
Leptophlebia	L	–	5	MCB 2019	imm	
Neoleptophlebia = Paraleptophlebia	L	I	1	"	imm	
Paracapnia angulata	L	II	2	Hilsenhoff 1974		
Cheumatopsyche	L	I	1	MCB 2019		
Hydropsyche betteni	L	XII	12	Schm Hils 1986		
Macronychus glabratus	L	I	1	Hils Schm 1992		
Optioservus	L	X-IIII	19	MCB 2019	imm	N
O. fastiditus L, 1 A, 1	L, A	II	2	Hils Schm 1992		
Stenelmis	L	IIII	4	MCB 2019		
Chironomidae	P	I	1	"	dam	N
Nemerodromia	L	XIIII	15	"		
Simulium	L	II	2	"	dam/imm	
Chrysops	L	I	1	"		
Gammarus pseudolimnaeus	A	X-III	18	Hils 1972		
Neoplasta	L	I	1	MCB 1972		
~~Split Aza Chironomitae~~	~~L~~	~~Ex-JSD~~				
~~Split Aza Chironomidae~~	~~L~~	~~X-IIII-JSD~~				
Corynoneura	L	II	2	And et al 2013		
Parametriocnemus	L	X	5	"		
Tvetenia bavarica group	L	II	2	Bode 1983		
Tanypodinae	L	I	1	And et al 2013	not indet	N
Meropelopia	L	I	1	"		
Zavrelimyia	L	IIII	4	"		
Thienemanniella group	L	II	2	"	imm	N
Orthocladiinae	L	II	2	"	imm	N
Cricotopus (Cricotopus) bicinctus group	L	II	2	"		
Eukiefferiella claripennis group	L	I	1	"		
Paraphaenocladius	L	I	1	"		
Rheocricotopus	L	I	1	"		
Chironominae	L	II	2	"	dam/imm	N
Micropsectra	L	X	10	"		
Paracladopelma	L	III	3	"		
Phaenopsectra	L	I	1	"	imm	
Polypedilum	L	II	2	"	imm	Y

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Polypedilum (Tripodura) scalaenum group	L	-11	7	Bolton 2012		
Stempellinella	L	-1	6	Ard et al 2013		
Rheotanytarsus	L	1	1	"		
Tanytarsus	L	X	10	"		