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)**
EAST TWIN RIVER	84000	20181001 - 36 - 22

Sampling Location	**Database Key**
	168775438

SWIMS Station ID	**SWIMS Station Name**
363042	EAST TWIN RIVER - STH 147 IN MISHICOT

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

Basin (WMU)	**Watershed Name**	**County**
TWIN - DOOR - KEWAUNEE	EAST TWIN RIVER	MANITOWOC

Sample and Site Descriptors

Sample Collector (Last Name, First)	**Project Name**
MARY GANSBERG	NE LAKESHORE TMDL SUPPLEMENTAL MONITORING

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**	
7	0.9	1	**Replicate No.**_____ **of** _____

Reason For Sampling

- [ ] Least Impacted Reference
- [ ] Baseline
- [ ] Impact / Treatment Site
- [ ] Control Site
- [ ] Trend
- [X] Other: TMDL

Water Temp. (C)	**D.O. (mg/l)**	**D.O. (% sat.)**	**pH (su)**	**Conductivity (umhos/cm)**	**Transparency (cm)**
10.7	10.3	93.0	8.2	710	

Water Color

- [ ] Clear
- [ ] Turbid
- [X] Stained

Estimated Stream Velocity (m/s)

- [ ] Slow (< 0.15 m/s)
- [ ] Moderate (0.15 m/s - 0.5 m/s)
- [X] 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)**
	0.7	18

Composition of Substrate Sampled (Percent):

Bedrock:_____ Boulders (basketball or larger):_____ Rubble (tennisball to basketball): 20 Gravel (ladybug to tennisball): 70

Sand: 10 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 (%)** 30

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

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

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter	Taxonomist	Estimated Percent of Sample Sorted
Kayla Wilcox	Dimick, Jeffrey	27%
Date Processed	**Specimens Saved**	
6/7/19	166	

C2= 59
D3=
A2 A3= 53
E3= 55
166

subsample archived in ABC until Aug 2022

Wisconsin Department of Natural Resources
ABL SampleNum: **20181001-36-22**
Taxonomist: Dimick, Jeffrey

Waterbody: **East Twin River**
SWIMS Database Key: **168775438**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Taeniopteryx	L	I	1	Hils 1995	imm	
Baetis flavistriga species complex	L	IIII	4	Klub 2016		
Acerpenna pygmaea	L	I	1	"		
Caenis	L	/	5	"	imm	N
C. latipennis	L	-III	8	"		
Ephemera	L	I	1	"	imm	
Leucrocuta	L	II	2	"		
Maccaffertium	L	III	3	"	imm	N
M. mediopunctatum	L	XII	12	"		
Leptophlebia	L	IIII	4	"	imm	
Tricorythodes	L	III	3	"		
Helicopsyche borealis	L	I	1	Hils 1995		
Cheumatopsyche	L	O-III	28	"		
Ceratopsyche	L	III	3	"	imm	N
C. bronta	L	-IIII	9	Schm Hils 1986		
C. slossonae	L	II	2	"		
Hydroptila	L	I	1	Hils 1995		
Psychomyia flavida	L	XII	12	"		
Dibrachia	L	II	2	Hils Schm 1992		
Optioservus	L	III	3	"	imm	N
O. fastiditus	L	/	5	"		
Stenelmis	L	-IIII	9	"		N
S. crenata	A	II	2	"		
Atherix variegata	L	/	5	Hils 1995		
Haliplus	L	I	1	"		
Hemerodromia	L	-I	6	Coffman 2008		
Antocha	L	I	1	Hils 1995		
Orthocladiinae 08300001	P	I	1	Ferr et al 2008	dam	N
Parakiefferiella	P	I	1	"		
Caecidotea	A	III	3	Will 1972	imm	
Lebertia	A	I	1	Pluch 1984		
Naidinae	A	-I	6	Brin Cold 1991		Y
Stylaria lacustris	A	II	2	Klemm 1985		
Pisidium	A	I	1	Burch 1972		
~~Split A2 Chironomidae~~	~~L~~	~~one~~ JJD				
Cryptochironomus	L	I	1	Epl et al 2013		

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Thienemanniella	L	I	1	And + 3 2013	imm	
Orthocladius (orthocladius)	L	III	3	"		
cladotanytarsus	L	XIII	13	Epl et al 2013		
Dicrotendipes	L	I	1	"		
Nilothauma	L	I	1	"		
Paratanytarsus	L	(	?	"	mt indet	
Polypedilum (Uresipedilum) flavum	L	I	1	Bolton 2012		