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)**
MILL BROOK	769400	20181115-68-06

Sampling Location	**Database Key**
	169406744

SWIMS Station ID	**SWIMS Station Name**
10011255	MILL BROOK - MILL BROOK AT CENTER RD (5M UPSTREAM)

Latitude	**Longitude**	**Lat/Long Determination Method (circle)**	**Datum Used if using GPS**
42.911213	-88.248024	SWIMS SWDV GPS	WGS84 or NAD83

Basin (WMU)	**Watershed Name**	**County**
FOX (IL)	MIDDLE FOX RIVER - ILLINOIS	WAUKESHA

Sample and Site Descriptors

Sample Collector (Last Name, First)	**Project Name**
RACHEL SABRE	MIDDLE ILLINOIS FOX RIVER TWA 2018 SABRE

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**	**Replicate No.**
1 Min	0.5m	1	1 of 1

Reason For Sampling

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

Water Temp. (C)	**D.O. (mg/l)**	**D.O. (% sat.)**	**pH (su)**	**Conductivity (umhos/cm)**	**Transparency (cm)**
3.45	13.28	102.3	8.18	1163	120

Water Color

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

Estimated Stream Velocity (m/s)

- [ ] Slow (< 0.15 m/s)
- [ ] 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)**
—	0.1m	1.5m

Composition of Substrate Sampled (Percent):

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

Sand: 20% Clay: _____ Silt/Muck: _____ Overhanging Vegetation: 10%

Aquatic Macrophytes: _____ Leaf Snags: 10% Coarse Woody Debris: 10% Other (_____): _____

Embeddedness of Substrate at Sample Site (%) 20% **Canopy Cover at Sample Site (%)** 40%

Mill Brook @ Center Rd
Station #10011255
Sample 1 of 1
Rachel Sabre
20181115-68-06

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

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter	Taxonomist	Estimated Percent of Sample Sorted
Abby Adams	Dimick, Jeffrey	53%
Date Processed	Specimens Saved	
4-27-19	Subsample archived in ABL until Jul 2022	

A2	C3	A1	E1	C1	B1	B3	B2	Total = 126
10	9	20	16	40	7	11	13	

Wisconsin Department of Natural Resources
ABL SampleNum: **20181115-68-06**
Taxonomist: Dimick, Jeffrey

Waterbody: **Mill Brook**
SWIMS Database Key: **169406744**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Allocapnia	L	-III	8	Hils 1995		
Isoperla	L	I	1	"	imm	
Baetidae	L	II	2	Klvb 2016	imm	N
Baetis ~~AD~~ brunneicolor	L	X-II	17	"		
B. flavistriga species complex	L	-II	7	"		
Diphetor hageni	L	III	3	"		
Stenacron	L	II	2	"	imm	N
S. interpunctatum	L	I	1	"		
Cheumatopsyche	L	I	1	Hils 1995		
Hydropsyche betteni	L	X-IIII	19	Schm Hils 1986		
Ceratopsyche slossonae	L	II	2	"		
Limnephilidae	L	I	1	Hils 1995	imm	N
Pycnopsyche	L	I	1	"		
chimarra	L	I	1	"	imm	N
ch. aterrima	L	I	1	Hils 1982		
Lype diversa	L	I	1	Hils 1995		
Optioservus	L	II	2	Hils Schm 1992	imm	N
O. fastiditus	L	-	5	"		
Hemerodromia	L	I	1	Coffman 2008		
Simulium tuberosum species complex	L	I	1	Adler et al 2004		
S. vittatum species complex 0811021	L	OII	22	"		
Antocha	L	-II	7	Hils 1995		
Limonia	L	I	1	"		
Orthocladius (Orthocladius)	P	-	5	Coff et al 1986		
Gammarus pseudolimnaeus	A	III	3	Hols 1972		
Coecidotea	A	I	1	Will 1972	fem	
Limnesia	A	II	2	Pluch 1984		
Mermithidae	A	I	1	Thorp/Rog 2016		
Tubificinae (without hairs)	A	~~XIIII~~ I	1	Klemm 1985		
Naidinae	A	*IIII	14	Brinkeld 1981		
~~Split A3 Chironomidae~~	~~L~~	~~TVJ~~				
Corynoneura	L	I	1	And+3 2013		
Thienemanniella xena	L	IIII	4	Bolton 2012		
Tvetenia bavarica group	L	III	3	Bode 1983		
Cricotopus (Cricotopus) bicinctus group	L	I	1	And+3 2013		
Paratanytarsus longistilus	L	-	5	Epl et al 2013		

<3 taxa, TVAL ≤2.0

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Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Polypedilum (Uresipedilum) aviceps	L	I	1	Bolton 2012		
P. (U.) flavum	L	I	1	"		
Rheotanytarsus	L	II	2	Epl et al 2013		