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)**
MUKWONAGO RIVER	765500	20171026-68-02

Sampling Location	**Database Key**
	150685648

SWIMS Station ID	**SWIMS Station Name**
10010534	MUKWONAGO RIVER (1) - UPSTREAM OF HWY 83

Latitude	**Longitude**	**Lat/Long Determination Method (circle)**	**Datum Used if using GPS**
42.85642	-88.32887	SWIMS SWDV GPS	WGS84 or NAD83

Basin (WMU)	**Watershed Name**	**County**
FOX (IL)	MUKWONAGO RIVER	WAUKESHA

Sample and Site Descriptors

Sample Collector (Last Name, First)	**Project Name**
RACHEL SABRE	SER LONG-TERM TREND WADEABLE REFERENCE STREAMS

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. ____ of ____**

Reason For Sampling

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

Water Temp. (C)	**D.O. (mg/l)**	**D.O. (% sat.)**	**pH (su)**	**Conductivity (umhos/cm)**	**Transparency (cm)**
10.45	10.28	95.4	7.36	648.3	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)
- [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)**
—	0.3m	20m

Composition of Substrate Sampled (Percent):

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

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

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

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

Mukwonago River @ Hwy 83
Sample # 20171026-68-02
Station # 10010534
Rachel Sabre
1 of 1

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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		
- Dow nstream		
Hydraulic Scour / Channel Incision		
Impoundment: - Upstream		
- Dow nstream		
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: Sam Lamarche	Taxonomist: Dimick, Jeffrey	Estimated Percent of Sample Sorted: 70
Date Processed: 10/19/18	Specimens Saved: Subsample archived in AAL until Jan 2022	

2A

145 specs

Wisconsin Department of Natural Resources
ABL SampleNum: **20171026-68-02**
Taxonomist: Dimick, Jeffrey

Waterbody: **Mukwonago River**
SWIMS Database Key: **150685648**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Isonychia anoka	L	I	1	Klug 2016		
Stenacron	L	X-IIII	19	"	imm	N
S. interpunctatum	L	III	3	"		
Tricorythodes	L	0-	25	"		
Helicopsyche borealis	L	I	1	Wils 1995		
Cheumatopsyche	L	0-II	27	"		
Hydropsyche cuanis	L	II	2	Schm Wils 1986		
H. arinale	L	-	5	"		
Ceratopsyche morosa bifida form	L	IIII	4	"		
Diptera	L	I	1	Wils Schm 1992		
Hemerodromia	L	I	1	Coffman 2008		
Gammarus pseudolimnaeus	A	B-	45	Hols 1972		
Hyalella spinicauda	A	IIII	4	Soucek et al 2015		
Tubificinae (without hairs)	A	I	1	Klemm 1985		
Hydrobiidae NOT P. antipodarum	A	III	3	Brown 1991		
Pisidium	A	I	1	Burch 1972		
Sphaerium	A	XII	12	"		
Dentaneura inconspicua	L	I	1	Epler 2001		
Polypedilum (Uresipedilum) flavum	L	I	1	Bolton 2012		
Rheotanytarsus	L	III	3	Epler et al 2013		