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	a0191024 -68-03

Sampling Location: @ Hwy 83 | **Database Key:** 208175725

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): Sabre, Rachel

Project Name: SER LONG-TERM TREND WADEABLE REFERENCE STREAM

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	0.5 m^2	1	1 of 1

Reason For Sampling

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

Water Temp. (C)	**D.O. (mg/l)**	**D.O. (% sat.)**	**pH (su)**	**Conductivity (umhos/cm)**	**Transparency (cm)**
10.12	11.44	103.7	7.34	976.1	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)	**Average Stream Depth of reach (m)**	**Average Stream Width of reach (m)**
95 cfs (Surber approx) m/s **or** f/s	0.2m	20 m

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): 10% Rubble (tennisball to basketball): 30% Gravel (ladybug to tennisball): 30%

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

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

Embeddedness of Substrate at Sample Site (%) 10% **Canopy Cover at Sample Site (%)** 0%

Mukwonago River @ US of Hwy 83
20191024-68-03
Station # 10010534
Sabre, Rachel

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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: Raatz, Trevor	Taxonomist: Dimick, Jeffrey	Estimated Percent of Sample Sorted: 7.5%
Date Processed: 2/1/2022	Specimens Saved: Subsample archived in ABL until Mar 2025	

12:40-1:30
3:35-4:15

B4Q2: 64
A2Q4: 30: 94
B4Q4: 14: 108
A2Q1: 16: 124

B4Q1: 29: 153
A2Q3
B4Q3
A2Q2

153

:50
:40
:90 = 1.5 hrs

Wisconsin Department of Natural Resources
ABL SampleNum: **20191024-68-03**
Taxonomist: Dimick, Jeffrey

Waterbody: **Mukwonago River**
SWIMS Database Key: **208175725**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Acerpenna	L	I	1	MCB 2019	dam	N
A. pygmaea	L	IIII	2	Klub 2016		
Iswaeon anoka	L	III	3	"		
Stenacron	L	IIII	5	MCB 2019	mmm	
Tricorythodes	L	IIII-III	38	"		
Helicopsyche borealis	L	I	1	Hils 1995		
Ceratopsyche	L	IIII	4	"	mmm	N
C. morosa bifida form	L	I	1	Schm Hils 1981		
Cheumatopsyche	L	III	21	MCB 2019		
Hydropsyche	L	IIII	7	Hils 1995	dam/mm	N
H. arinale	L	XV	15	Schm Hils 1986		
Oxyethira	L	I	1	MCB 2019		
Chimarra obscura	L	II	2	Hils 1982		
Stenelmis	L	I	1	MCB 2019		
Eukiefferiella dampenuis group	P	I	1	coffetal 1986		N
Hemerodromia	L	I	6	MCB 2019		
Simulium vittatum species complex OBILDZ17	L	IIII-I	28	Adl et al 2004		
Crangonyx	A	I	1	Thorp Rog 2016	Rem	
Gammarus pseudolimnaeus	A	I	5	Hils 1972		
Hyalella azteca	A	III	7	Sovell et al 2015		
Tossarra	A	I	1	Burch 1989		
Hydrobiidae not P. antipodarum	A	II	2	"		
Pisidium	A	I	1	Thorp Rog 2016		
Sphaerium	A	I	1	"	mmm	
Naidinae	A	I	1	Kath Brin 1998		
Sphaerium similie	A	II	2	Mackie 2007		
~~Split to Chironomidae~~	L	IIIII				
Rheotanytarsus	L	I	1	And et al 2013		
Eukiefferiella claripennis group	L	II	2	"		
Polypedilum (Uresipedilum) flavum	L	I	1	Bolton 2012		

<3 taxa, TVAL ≤ 2.0