

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name MUKWONAGO RIVER		Waterbody ID Code 765500	Sample ID (YYYYMMDD-CY-FD) 20201006-68-02
Sampling Location US bridge @ 83			Database Key 250470516
SWIMS Station ID 10010534	SWIMS Station Name MUKWONAGO RIVER (1) - UPSTREAM OF HWY 83		
Latitude 4293405	Longitude -884695	Lat/Long Determination Method (circle) <u>SWIMS</u> SWDV GPS	Datum Used if using GPS WGS84 or NAD83
Basin (WMU) FOX (IL)	Watershed Name MUKWONAGO RIVER	County WAUKESHA	

Sample and Site Descriptors

Sample Collector (Last Name, First) Watkinson, Arthur	Project Name SER LONG-TERM TREND WADEABLE REFERENCE STREAM
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Sampling Device

D-Frame Kick Net
 Surber Sampler
 Eckman
 Ponar
 Artificial Substrate
 Hess Sampler
 Other: _____

Habitat Sampled

Riffle
 Run
 Pool
 Other
 Shoreline Composite
 Proportionally-Sampled Habitat
 Littoral Zone
 Profundal Zone
 Wetland

Total Sampling Time (min) 1	Estimated Area Sampled (m²) 1	Number of Samples in Composite 1	Replicate No. 1 of 1
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Reason For Sampling

Least Impacted Reference
 Baseline
 Impact / Treatment Site
 Control Site
 Trend
 Other: _____

Water Temp. (C) 14.18	D.O. (mg/l) 11.02	D.O. (% sat.) 108.3	pH (su) 7.84	Conductivity (umhos/cm) 947.3	Transparency (cm) 120+
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Water Color <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained	Estimated Stream Velocity (m/s) <input type="checkbox"/> Slow (< 0.15 m/s) <input checked="" type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input checked="" type="checkbox"/> Fast (> 0.5 m/s)
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Measured Velocity USGS gage 36 cfs circle units m/s or f/s	Average Stream Depth of reach (m) 0.4m	Average Stream Width of reach (m) 20m
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 55 Gravel (ladybug to tennisball): 40
 Sand: 5 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (): _____

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

20201006-68-02
 Station # 10010534
 Sample 1 of 1
 Mukwonago River US Hwy 83
 WBIC 765500
 Arthur Watkinson
 LTT Wadeable Reference Streams

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			
				Point Source - Specify:			
Physical				Pasturing of Livestock			
Bank Erosion				Runoff: - Barnyard			
Channelization: - Upstream				- Construction			
- Downstream				- Cropland			
Hydraulic Scour / Channel Incision				- Urban			
Impoundment: - Upstream				Septic Systems			
- Downstream				Tile Drainage - Organic Soils			
Low Flow				- Mineral Soils			
Sedimentation				Springs			
Sludge				Tributary(s)			
Thermal				Wetland			
Turbidity				Other - Specify:			
Other - Specify:							

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter <i>Rachael Valencia</i>	Taxonomist <i>Demick Jeffrey</i>	Estimated Percent of Sample Sorted <i>6.3%</i>
Date Processed <i>12/9/2021</i>	Specimens Saved <i>Subsample archived in ABC until Feb 2025</i>	

C2
Q1-27
Q3-54
Q2
Q4

A1
Q3-32
Q1-37
Q4
Q2

150

Wisconsin Department of Natural Resources

ABL SampleNum: 20201006-68-02

Taxonomist: Dimick, Jeffrey

Waterbody: Mukwonago River

SWIMS Database Key: 250470512

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Baetis intercalaris	L	I	1	Klub 2016		
Isaiaea andka	L	III	4	"		
Stenonema	L	III	4	MCB 2019	imm	
Tricorythodes	L	I	6	"		
Hydropsychidae	L	III	4	"	imm	N
Ceratopsycha	L	I	1	Hils 1985	imm	N
C. macosa bifida group	L	III	3	Schm Hils 1986		
Cheumatopsycha	L	0-II	27	MCB 2019		
Hydropsycha	L	X-	15	Hils 1985	imm	N
H. arcuate	L	XIII	13	Schm Hils 1986		
H. curvis	L	I	1	"		
Hydraptila	L	I	1	Wigg 1979		
Chimarra obscura	L	II	2	Hils 1982		
Stenelmis	L	I	1	MCB 2019		
Orthocladiinae small w/ saccoid TH	P	I	1	"	dam	Y
Simulium venustum species complex	L	I	1	Adl et al 2004		
S. vittatum species complex OBUDZOT	L	BI	41	"		
Hemerodromia	L	I	1	MCB 2019		
Hyalida azteca	A	I	5	Souck et al 2013		
Simulium	L	I	1	MCB 2019	imm	N
Trembitiformes	A	I	1	Thorp Rog 2016	imm	
Dugesidae	A	II	2	"		
Hydrobiidae not P. antipodarum	A	II	2	Burch 1989		
Sphaerium stratum	A	I	1	Macke 2007		
Spitts Chironomidae	L	XIII-JID				
Cricotopus (Cricotopus) trifasciata group	L	II	2	Adl et al 2013		
C.(C.) tremulus group	L	III	4	"		
Orthocladiinae	L	I	1	"	dam	N
Orthocladus (Orthocladus)	L	I	1	"		
Thienemannella xena	L	II	3	Bdton 2012		
Polypedium (Ves. pedium) flavum	L	III	4	"		

< 3 taxa, TVAL ≤ 2.0