

Sample in 2 jars

Instructions: Bold fields must be completed.

**Station Summary**

<b>Waterbody Name</b> MUKWONAGO RIVER	<b>Waterbody ID Code</b> 765500	<b>Sample ID (YYYYMMDD-CY-FD)</b> 20161028-68-02
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<b>Sampling Location</b> 1.0m US of Hwy 83 bridge	<b>Database Key</b> 136774748
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<b>SWIMS Station ID</b> 10010534	<b>SWIMS Station Name</b> MUKWONAGO RIVER (1) - UPSTREAM OF HWY 83
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<b>Latitude</b> 42.85642	<b>Longitude</b> -88.32887	<b>Lat/Long Determination Method (circle)</b> <u>SWIMS</u> SWDV GPS	<b>Datum Used if using GPS</b> WGS84 or <u>NAD83</u>
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<b>Basin (WMU)</b> FOX (IL)	<b>Watershed Name</b> MUKWONAGO RIVER	<b>County</b> WAUKESHA
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**Sample and Site Descriptors**

<b>Sample Collector (Last Name, First)</b> RACHEL SABRE	<b>Project Name</b> SER LONG-TERM TREND WADEABLE REFERENCE STREAMS
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**Sampling Device**

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

<b>Total Sampling Time (min)</b> 2 min	<b>Estimated Area Sampled (m<sup>2</sup>)</b> 1 m <sup>2</sup>	<b>Number of Samples in Composite</b> 1	<b>Replicate No.</b> <u>1</u> <u>2</u> <u>3</u> of <u>3</u>
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**Reason For Sampling**

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

<b>Water Temp. (C)</b> 9.89	<b>D.O. (mg/l)</b> 10.55	<b>D.O. (% sat.)</b> 96.2	<b>pH (su)</b> 8.09	<b>Conductivity (umhos/cm)</b> 639.7	<b>Transparency (cm)</b> +120
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<b>Water Color</b> <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained	<b>Estimated Stream Velocity (m/s)</b> <input type="checkbox"/> Slow (< 0.15 m/s) <input type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input checked="" type="checkbox"/> Fast (> 0.5 m/s)
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<b>Measured Velocity</b> _____ circle units _____ m/s or f/s	<b>Average Stream Depth of reach (m)</b> 0.3m	<b>Average Stream Width of reach (m)</b> 2.0m
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**Composition of Substrate Sampled (Percent):**

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): 20 Rubble (tennisball to basketball): 10 Gravel (ladybug to tennisball): 50  
 Sand: 10 Clay: \_\_\_\_\_ Silt/Muck: \_\_\_\_\_ Overhanging Vegetation: \_\_\_\_\_  
 Aquatic Macrophytes: \_\_\_\_\_ Leaf Snags: 10 Coarse Woody Debris: \_\_\_\_\_ Other (\_\_\_\_): \_\_\_\_\_  
 Embeddedness of Substrate at Sample Site (%) 10 Canopy Cover at Sample Site (%) 0

**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
<b>Biological</b>				<b>Chemical</b>			
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:				<b>Sources of Stream Impacts</b>			
				Bank Erosion			
				Point Source - Specify:			
				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

Sample in 2 jars

For Lab Use Only		
Sample Sorter	Kuhne, Allison	Taxonomist
Date Processed	5-15-	Specimens Saved
		Subsample archived in ABC until Nov 2020
		Estimated Percent of Sample Sorted
		7

E2-143

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Acerpenna	L	ii	2	Kubertanz 2016	dam	N
A. pygmaea	L	-1	6	"		
Isaiaea anoka	L	ii	2	"		
Caenis latipennis	L	iiii	4	"		
Stenacron	L	iii	3	"	imm	N
S. interpunctatum	L	ii	3	"		
Tricorythodes	L	x-1	16	"		
Celsoesoma intermedium	L	1	1	Wyma, Morse 2002		
Cheumatopsyche	L	δiii	35	Hilsenhoff 1985		
Hydropsyche	L	-1	6	"	imm	N
H. cwanis	L	xiiii	14	Schm., Hils. 1986		
H. arinale	L	-1	6	"		
Ceratopsyche	L	1	1	Hilsenhoff 1985		
C. morosa bifida form	L	-1	6	Schm., Hils. 1986		
Stenelmis	L	1	1	Hils., Schm. 1982		
Gammarus pseudolimnoides	A	iii	4	Nelson 1972		
Ayalella	A	-	5	Penck 1978		
Elimia	A	ii	3	Brown 1991		
Hydrobiidae NOT P. antipodarum	A	iii	3	"		
Tubificinae w/ capilliform chaetae	A	1	1	Klemm 1985		
Pisidium	A	ii	2	Burch 1972		
Sphaerium	A	-	5	"		
Dreissena polymorpha empty shell	A		0	← list to comments, not taxa		
<del>Split to Chironomidae</del>	L	(16)				
Zavelimyia	L	iiii	4	Cran, Epler 2013		
Eukiefferiella clauspennis group	L	1	1	Ander + 3 2013		
Thienemanniella	L	1	1	"	dam	
Nanocladius (Nanocladius)	L	1	1	"	imm	
Orthocladius (Orthocladius)	L	ii	2	"		
Cricotopus (Cricotopus) breinotus group	L	1	1	"		
Polypedium (Uresipedium) flavum	L	δii	32	Balton 2012		
Rhyacotanytarsus	L	-ii	7	Epler et al 2013		