

Instructions: **Bold** fields must be completed.

<b>Station Summary</b>	
<b>Waterbody Name</b> MUKWONAGO RIVER	<b>Waterbody ID Code</b> 765500
<b>Sample ID (YYYYMMDD-CY-FD)</b> 20171026-68-02	
<b>Sampling Location</b>	
<b>Database Key</b> 150685648	

<b>SWIMS Station ID</b> 10010534	<b>SWIMS Station Name</b> MUKWONAGO RIVER (1) - UPSTREAM OF HWY 83		
<b>Latitude</b> 42.85642	<b>Longitude</b> -88.32887	<b>Lat/Long Determination Method (circle)</b> SWIMS SWDV GPS	
<b>Basin (WMU)</b> FOX (IL)			<b>Watershed Name</b> MUKWONAGO RIVER
<b>County</b> WAUKESHA			<b>Datum Used if using GPS</b> WGS84 or NAD83

<b>Sample and Site Descriptors</b>	
<b>Sample Collector (Last Name, First)</b> RACHEL SABRE	<b>Project Name</b> SER LONG-TERM TREND WADEABLE REFERENCE STREAMS

**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

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

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

<b>Water Temp. (C)</b> 10.45	<b>D.O. (mg/l)</b> 10.28	<b>D.O. (% sat.)</b> 95.4	<b>pH (su)</b> 7.36	<b>Conductivity (umhos/cm)</b> 648.3	<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> 20m
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**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

**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

For Lab Use Only		
Sample Sorter <i>Sam Lamarche</i>	Taxonomist <i>Dimick Jeffrey</i>	Estimated Percent of Sample Sorted <i>79%</i>
Date Processed <i>10/19/18</i>	Specimens Saved <i>Subsample archived in ADL until Jan 2022</i>	

2A

145 specs