

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

Station Summary			
Waterbody Name <b>RIPPLE BROOK</b>		Waterbody ID Code 764800	Sample ID (YYYYMMDD-CY-FD) <b>20181115-68-07</b>
Sampling Location		Database Key 169406772	
SWIMS Station ID 10051270		SWIMS Station Name <b>RIPPLE BROOK @ HWY 164</b>	
Latitude 42.8715207	Longitude -88.198964	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
Basin (WMU) FOX (IL)		Watershed Name MIDDLE FOX RIVER - ILLINOIS	County WAUKESHA

Sample and Site Descriptors	
Sample Collector (Last Name, First) <b>RACHEL SABRE</b>	Project Name <b>MIDDLE ILLINOIS FOX RIVER TWA 2018 SABRE</b>

**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) <b>1 min</b>	Estimated Area Sampled (m <sup>2</sup> ) <b>0.5m<sup>2</sup></b>	Number of Samples in Composite <b>1</b>	Replicate No. <b>1</b> of <b>1</b>
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**Reason For Sampling**

Least Impacted Reference     
  Baseline     
  Impact / Treatment Site  
 Control Site     
  Trend     
 Other: **TWA middle Fox**

Water Temp. (C) <b>8.61</b>	D.O. (mg/l) <b>11.01</b>	D.O. (% sat.) <b>97.0</b>	pH (su) <b>7.92</b>	Conductivity (umhos/cm) <b>1031</b>	Transparency (cm) <b>120</b>
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**Water Color**

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 m/s or f/s	Average Stream Depth of reach (m) <b>0.1m</b>	Average Stream Width of reach (m) <b>2.0</b>
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**Composition of Substrate Sampled (Percent):**

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): \_\_\_\_\_ Rubble (tennisball to basketball): \_\_\_\_\_ Gravel (ladybug to tennisball): **10%**  
 Sand: **20%** Clay: \_\_\_\_\_ Silt/Muck: **10%** Overhanging Vegetation: **30%**  
 Aquatic Macrophytes: **10%** Leaf Snags: **10%** Coarse Woody Debris: **10%** Other ( \_\_\_\_\_ ): \_\_\_\_\_

Embeddedness of Substrate at Sample Site (%) **40%** Canopy Cover at Sample Site (%) **20%**

**Ripple Brook @ Hwy 164  
 Station #10051270  
 Sample 1 of 1  
 Rachel Sabre  
 20181115-68-07**

**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			
<b>Physical</b>				Point Source - Specify:			
Bank Erosion				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>Logan Cutler</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>67%</i>
Date Processed <i>4/28/19</i>	Specimens Saved <i>13+13+15+14+16+13+12+15+9+18=138</i>	

*E1 D3 O2 C1 E2 C2 A2 C3 E3 B2 Total*  
*Subsample archived in ABC until Jul 2022*