

**Wadeable Macroinvertebrate  
 Field Data Report**

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

**Station Summary**

<b>Waterbody Name</b> MONTREAL RIVER		<b>Waterbody ID Code</b> 2940300	<b>Sample ID (YYYYMMDD-CY-FD)</b> 20170929-26-03
<b>Sampling Location</b>			<b>Database Key</b> 148375074
<b>SWIMS Station ID</b> 10048418		<b>SWIMS Station Name</b> MONTREAL RIVER ADJACENT TO STH 51	
<b>Latitude</b> 46.45806	<b>Longitude</b> -90.18703	<b>Lat/Long Determination Method (circle)</b> SWIMS SWDV GPS	<b>Datum Used if using GPS</b> WGS84 or NAD83
<b>Basin (WMU)</b> LAKE SUPERIOR		<b>Watershed Name</b> MONTREAL RIVER	<b>County</b> IRON

**Sample and Site Descriptors**

<b>Sample Collector (Last Name, First)</b> JON KLEIST	<b>Project Name</b> MONTREAL RIVER WATERSHED TWA 2017
----------------------------------------------------------	----------------------------------------------------------

**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> 1 min	<b>Estimated Area Sampled (m<sup>2</sup>)</b> 1.5 m <sup>2</sup>	<b>Number of Samples in Composite</b> 1	<b>Replicate No.</b> 1 <b>of</b> 1
-------------------------------------------	---------------------------------------------------------------------	--------------------------------------------	------------------------------------

**Reason For Sampling**

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

<b>Water Temp. (C)</b> 13.4	<b>D.O. (mg/l)</b> 10.5	<b>D.O. (% sat.)</b> 101.7	<b>pH (su)</b> 6.8	<b>Conductivity (umhos/cm)</b> 103	<b>Transparency (cm)</b> 7120
--------------------------------	----------------------------	-------------------------------	-----------------------	---------------------------------------	----------------------------------

<b>Water Color</b>	<b>Estimated Stream Velocity (m/s)</b>
<input type="checkbox"/> Clear <input type="checkbox"/> Turbid <input checked="" type="checkbox"/> Stained	<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)

<b>Measured Velocity</b> 0.6	circle units m/s or f/s	<b>Average Stream Depth of reach (m)</b> 0.4	<b>Average Stream Width of reach (m)</b> 8
---------------------------------	----------------------------	-------------------------------------------------	-----------------------------------------------

**Composition of Substrate Sampled (Percent):**

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): 30     
 Rubble (tennisball to basketball): 60     
 Gravel (ladybug to tennisball): 10

Sand: \_\_\_\_\_ Clay: \_\_\_\_\_     
 Silt/Muck: \_\_\_\_\_     
 Overhanging Vegetation: \_\_\_\_\_

Aquatic Macrophytes: \_\_\_\_\_ Leaf Snags: \_\_\_\_\_     
 Coarse Woody Debris: \_\_\_\_\_     
 Other ( ): \_\_\_\_\_

**Embeddedness of Substrate at Sample Site (%)** 0     
**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	PL	PL	Chlorine	N	N
- Filamentous Algae	N	U	Dissolved Oxygen	N	N
- Planktonic Algae	N	U	Nutrients (P, N...)	N	N
Iron Bacteria	N	U	Toxics: - Inorganic (Metals)	N	N
Macrophytes	N	N	- Organic (PCBs, pesticides...)	N	N
Slimes	N	N	Other - Specify:		
Other - Specify:			<b>Sources of Stream Impacts</b>		
			Bank Erosion	N	U
			Point Source - Specify: Ironwood WWTP	N	PL
			Pasturing of Livestock	N	N
<b>Physical</b>			Runoff: - Barnyard	N	N
Bank Erosion	N	U	- Construction	N	N
Channelization: - Upstream	N	N	- Cropland	N	N
- Downstream	N	N	- Urban	PL	PL
Hydraulic Scour / Channel Incision	N	N	Septic Systems	N	N
Impoundment: - Upstream	N	N	Tile Drainage - Organic Soils	N	N
- Downstream	PL	PL	- Mineral Soils	N	N
Low Flow	N	N	Springs	N	U
Sedimentation	N	N	Tributary(s)	N	U
Sludge	N	N	Wetland	N	PL
Thermal	N	N	Other - Specify:		
Turbidity	N	N			
Other - Specify:					

Comments

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter <i>Kayla Wilcox</i>	Taxonomist	Estimated Percent of Sample Sorted <i>7%</i>
Date Processed <i>6/13/18</i>	Specimens Saved	

CI = 153