

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

Station Summary

Waterbody Name Unnamed.		Waterbody ID Code 2947900	Sample ID (YYYYMMDD-CY-FD) 20181004-26-07
Sampling Location 20 M DS Mutanen Rd.			Database Key 168768956
SWIMS Station ID 10051587	SWIMS Station Name UNNAMED (2947900) TRIB TO MONTREAL RIVER 110 M DS MUTANEN RD.		
Latitude 45.37067	Longitude -90.14423	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
Basin (WMU) Lake Superior	Watershed Name Montreal River	County Iron	

Sample and Site Descriptors

Sample Collector (Last Name, First) JON KLEIST	Project Name MONTREAL RIVER TWA 2017-2018
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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) 1.5	Number of Samples in Composite 3	Replicate No. 1 of 1
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Reason For Sampling

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

Water Temp. (C) 9.2	D.O. (mg/l) 9.2	D.O. (% sat.) 80.4	pH (su) 6.6	Conductivity (umhos/cm) 135	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 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 circle units m/s or f/s	Average Stream Depth of reach (m) 0.3	Average Stream Width of reach (m) 3
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 30 Gravel (ladybug to tennisball): 50
 Sand: 20 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (): _____

Embeddedness of Substrate at Sample Site (%) 30
Canopy Cover at Sample Site (%) 80

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			Factors that may be influencing Water Resource Integrity		
Local	Water-shed		Local	Water-shed	
Biological			Chemical		
Algae: - Diatoms / Periphyton	N	N	Chlorine	N	N
- Filamentous Algae	N	N	Dissolved Oxygen	N	N
- Planktonic Algae	N	N	Nutrients (P, N...)	N	N
Iron Bacteria	PL	PL	Toxics: - Inorganic (Metals)	N	N
Macrophytes	N	N	- Organic (PCBs, pesticides...)	N	N
Slimes	N	N	Other - Specify:		
Other - Specify:			Sources of Stream Impacts		
			Bank Erosion	PL	PL
Physical			Point Source - Specify:	N	N
Bank Erosion	PL	PL	Pasturing of Livestock	N	N
Channelization: - Upstream	PN	N	Runoff: - Barnyard	N	N
- Downstream	N	PH	- Construction	N	N
Hydraulic Scour / Channel Incision	N	N	- Cropland	N	N
Impoundment: - Upstream	N	N	- Urban	N	N
- Downstream	N	N	Septic Systems	N	N
Low Flow	PL	PL	Tile Drainage - Organic Soils	N	N
Sedimentation	N	N	- Mineral Soils	N	N
Sludge	N	N	Springs	N	PL
Thermal	N	N	Tributary(s)	N	N
Turbidity	N	N	Wetland	PL	PL
Other - Specify:			Other - Specify:		

Comments

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter Sam Lamarche	Taxonomist Dinnick, Jeffrey	Estimated Percent of Sample Sorted 100%
Date Processed 3/29/2019	Specimens Saved Subsample archived in ABL until Jan 2022	

A1 A2 B2
 38 37 50

125 total