

Wadeable Macroinvertebrate Field Data Report

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name MONTREAL RIVER		Waterbody ID Code 2940300	Sample ID (YYYYMMDD-CY-FD) 20170929-26-03
Sampling Location			Database Key 148375074
SWIMS Station ID 10048418		SWIMS Station Name MONTREAL RIVER ADJACENT TO STH 51	
Latitude 46.45806	Longitude -90.18703	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 WATERSHED TWA 2017
Sampling Device	
<input checked="" type="checkbox"/> D-Frame Kick Net	<input type="checkbox"/> Surber Sampler
<input type="checkbox"/> Ponar	<input type="checkbox"/> Artificial Substrate
<input type="checkbox"/> Eckman	<input type="checkbox"/> Hess Sampler
<input type="checkbox"/> Other:	

Habitat Sampled

<input checked="" type="checkbox"/> Riffle	<input type="checkbox"/> Run	<input type="checkbox"/> Pool
<input type="checkbox"/> Other	<input type="checkbox"/> Shoreline Composite	<input type="checkbox"/> Proportionally-Sampled Habitat
<input type="checkbox"/> Littoral Zone	<input type="checkbox"/> Profundal Zone	<input type="checkbox"/> Wetland

Total Sampling Time (min) 1 min	Estimated Area Sampled (m²) 1.5 m ²	Number of Samples in Composite 1	Replicate No. 1 of 1
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Reason For Sampling

<input type="checkbox"/> Least Impacted Reference	<input type="checkbox"/> Baseline	<input type="checkbox"/> Impact / Treatment Site
<input type="checkbox"/> Control Site	<input type="checkbox"/> Trend	<input checked="" type="checkbox"/> Other: TWA Project

Water Temp. (C) 13.4	D.O. (mg/l) 10.5	D.O. (% sat.) 101.7	pH (su) 6.8	Conductivity (umhos/cm) 103	Transparency (cm) 7120
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Water Color	Estimated Stream Velocity (m/s)
<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)

Measured Velocity 0.6	circle units m/s or f/s	Average Stream Depth of reach (m) 0.4	Average Stream Width of reach (m) 8
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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
Biological			Chemical		
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:			Sources of Stream Impacts		
			Bank Erosion	N	U
			Point Source - Specify: Ironwood WWTP	N	PL
			Pasturing of Livestock	N	N
Physical			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

Wisconsin Department of Natural Resources

ABL SampleNum: 20170929-26-03

Taxonomist: Dimick, Jeffrey

Waterbody: Montreal River
SWIMS Database Key: 148375074

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Taxa	Life Stage	Benthic Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Paracappnia angulata</i>	L	III	8	Hitch 1974		
<i>Paragnetina media</i>	L	I	1	Hils 1995		
<i>Isogenoides frontalis</i>	L	I	1	Hils Bill 1973		
<i>Isoperla signata</i>	L	II	2	Hils 1982		
<i>Taeniopteryx</i>	L	II	2	Hils 1995	imm	
<i>Aeotis flavistorca</i> species complex	L	II	2	Klub 2016		
<i>Acentrella turbida</i>	L	I	1	"		
<i>Ephemerella</i>	L	II	2	"	imm	Y
<i>E. subvarca</i>	L	I	1	"		
<i>Eurylophella</i>	L	I	1	"	imm	
Heptageniidae	L	I	1	"	imm	N
<i>Leverocuta</i>	L	III	11	"		
<i>Maccortentum</i>	L	XI	11	"	imm	N
<i>M. vicarium</i>	L	II	2	"		
Leptophlebiidae	L	I	1	"	dam	N
<i>Palaeoptophlebia</i>	L	XI	11	"	dam	N
<i>P. mollis</i>	L	X	10	"		
<i>Glossosoma</i>	L	II	2	Hils 1995	imm	N
<i>G. intermedium</i>	L	I	1	Wym Mar 2000		
<i>Cheumatopsyche</i>	L	IV	3	Hils 1995		
<i>Ceratopsyche</i>	L	III	3	"	imm	N
<i>C. morosa</i> form <i>morosa</i> form	L	III	4	Schm Hils 1986		
<i>C. glossonae</i>	L	I	1	"		
<i>C. sparna</i>	L	I	1	"		
<i>C. walkeri</i>	L	II	2	"		
<i>Chimarra</i>	L	III	4	Hils 1995	imm	
<i>Psychomyia flavida</i>	L	III	3	"		
<i>Nigronia semicomis</i>	L	I	1	Neun 1966		
<i>Opatoservus</i>	L	XII	12	Hils Schm 1992	imm	N
<i>O. fastiditus</i>	L	III	8	"		
<i>O. trivittatus</i> L, 6 A, 2	L, A	III	8	"		
<i>Stenelmis</i>	L	I	6	"		N
<i>S. renata</i>	A	III	3	"		
Staphylinidae	L	I	1	White Rough 2008		
<i>Atherix variegata</i>	L	I	5	Hils 1995		
<i>Hemerodromia</i>	L	I	5	Court Meir 2008		
Naicinae	A	III	3	Brink Guld 1991		

