

**Wadeable Macroinvertebrate
 Field Data Report**

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name WEST FORK MONTREAL RIVER		Waterbody ID Code 2941600	Sample ID (YYYYMMDD-CY-FD) 20170929-26-04
Sampling Location			Database Key 148375094
SWIMS Station ID 10022049		SWIMS Station Name WEST FORK MONTREAL RIVER - KIMBALL AT CENTER DR	
Latitude 46.47150	Longitude -90.25758	Lat/Long Determination Method (circle) SWIMS SWDV <u>GPS</u>	Datum Used if using GPS <u>WGS84</u> 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 checked="" type="checkbox"/> Other: <u>Fish Project</u>	

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	Estimated Area Sampled (m²) 1.5	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: <u>TWA Project</u>

Water Temp. (C) 16.8	D.O. (mg/l) 10.5	D.O. (% sat.) 107.3	pH (su) 7.0	Conductivity (umhos/cm) 78	Transparency (cm) >120
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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) 0.3	Average Stream Width of reach (m) 13
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 50 Gravel (ladybug to tennisball): 40

Sand: 10 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			Factors that may be influencing Water Resource Integrity		
Local	Water-shed		Local	Water-shed	
Biological			Chemical		
Algae: - Diatoms / Periphyton	PL	PL	Chlorine	N	N
- Filamentous Algae	N	N	Dissolved Oxygen	N	N
- Planktonic Algae	N	PL	Nutrients (P, N...)	N	N
Iron Bacteria	N	U	Toxics: - Inorganic (Metals)	N	N
Macrophytes	N	PL	- Organic (PCBs, pesticides...)	N	N
Slimes	N	N	Other - Specify:		
Other - Specify:			Sources of Stream Impacts		
			Bank Erosion	N	PL
			Point Source - Specify: <i>Montreal WWTP</i>	PL	PL
Physical			Pasturing of Livestock		
Bank Erosion	N	PL	Runoff: - Barnyard	N	N
Channelization: - Upstream	N	N	- Construction	N	N
- Downstream	N	N	- Cropland	N	N
Hydraulic Scour / Channel Incision	N	N	- Urban	N	PL
Impoundment: - Upstream	PL	PL	Septic Systems	N	N
- Downstream	N	N	Tile Drainage - Organic Soils	N	N
Low Flow	N	N	- Mineral Soils	N	N
Sedimentation	N	N	Springs	N	U
Sludge	N	N	Tributary(s)	N	PL
Thermal	N	N	Wetland	N	PL
Turbidity	N	N	Other - Specify:		
Other - Specify:					

Comments

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter <i>Keyko Wilson</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>13%</i>
Date Processed <i>6/13/18</i>	Specimens Saved <i>subsample archived in ABC and 1 of 2021</i>	

*A3 = 109
 C2 = 36*

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Paracappnia angulata</i>	L	I	1	Hitch 1974		
<i>Acanthuria</i>	L	II	2	Hils 1995	imm	
<i>Paragnetina media</i>	L	IIII	4	"		
<i>Acentrella turbida</i>	L	I	1	Klub 2016		
<i>Nepageniidae</i>	L	I	1	"	imm	
<i>Epeorus vitreus</i>	L	IIII	10	"		
<i>Levinscuta</i>	L	IIII	9	"		
<i>Maccaffertium</i>	L	I	1	"	imm	N
<i>M. modestum</i>	L	II	3	"		
<i>M. vicarium</i>	L	I	1	"		
<i>Paraleptophlebia</i>	L	III	3	"	imm	
<i>Isonychia</i>	L	IIII	4	"	imm	
<i>Glossosoma</i>	L	XXXX	20	Hils 1995	imm	
<i>Ceratopsyche</i>	L	I	1	"	imm	N
<i>C. bipuncta</i>	L	I	1	Schm Hils 1986		
<i>C. morosa morosa form</i>	L	I	1	"		
<i>C. sparna</i>	L	I	1	"		
<i>C. walkeri</i>	L	III	3	"		
<i>Levinscuta pictipes</i>	L	II	2	Hils 1995		
<i>Lepidostoma</i>	L	I	1	"		
<i>Philopotamidae</i>	P	I	1	Wiegand 2008		
<i>Chimarra</i>	L	II	7	Hils 1995	imm	N
<i>Ch. atterrima</i>	L	I	1	Hils 1982		
<i>Ch. socia</i>	L	III	3	"		
<i>Chamaetopsyche</i>	L	IIII	8	Hils 1995		
<i>Rhyacophila</i>	L	I	1	"	imm	
<i>Nicronia serricornis</i>	L	I	1	Neun 1966		
<i>Ephemerella</i>	L	I	1	Klub 2016	imm	
<i>Optiservus</i>	L	I	6	Hils Schm 1992	imm	N
<i>O. fastidiosus</i>	L	I	1	"		
<i>O. trivittatus</i>	L	III	3	"		
<i>Stenelmis</i>	L	II	2	"		N
<i>S. crenata</i>	A	I	1	"		
<i>Antocha</i>	L	II	2	Hils 1995		
<i>Lumbriculus</i>	A	III	3	Thorp Gov 2016		
<i>Rhyacophila acra group</i>	L	I	1	Cran EPL 2013		

