

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name UNNAMED trib to Gile Flwyge @ Spring Camp Rd		Waterbody ID Code 2943300	Sample ID (YYYYMMDD-CY-FD) 20171023-26-10
Sampling Location Upstream Spring Camp Rd ≈ 30m *Black Creek*		Database Key 148375062	
SWIMS Station ID 10032145	SWIMS Station Name BLACK CREEK ON SPRING CAMP ROAD		
Latitude 46.37860	Longitude -90.25578	Lat/Long Determination Method (circle) SWIMS SWDV <u>GPS</u>	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 Cunningham, Joseph	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 m ²	Number of Samples in Composite 3-20 second Kicks	Replicate No. _____ of _____
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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 type="checkbox"/> Other: Montreal TWA

Water Temp. (C) 10.3	D.O. (mg/l) 9.4	D.O. (%sat.) 83.9	pH (su) 6.6	Conductivity (umhos/cm) 51.3	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 checked="" type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input type="checkbox"/> Fast (> 0.5 m/s)

Measured Velocity circle units m/s or f/s	Average Stream Depth of reach (m) 0.2 m	Average Stream Width of reach (m) 2.0 m
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Composition of Substrate Sampled (Percent):

Bedrock: _____	Boulders (basketball or larger): _____	Rubble (tennisball to basketball): 30	Gravel (ladybug to tennisball): 20
Sand: 20	Clay: _____	Silt/Muck: _____	Overhanging Vegetation: _____
Aquatic Macrophytes: _____	Leaf Snags: 20	Coarse Woody Debris: 10	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	Local	Water- shed	Factors that may be influencing Water Resource Integrity	Local	Water- shed
Biological			Chemical		
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:			Sources of Stream Impacts		
			Bank Erosion		
			Point Source - Specify:		
Physical			Pasturing of Livestock		
Bank Erosion			Runoff: - Barnyard		
Channelization: - Upstream			- Construction		
- Downstream			- Cropland		
Hydraulic Scour / Channel Incision			- Urban		
Impoundment: - Upstream			Septic Systems		
- Downstream			Tile Drainage - Organic Soils		
Low Flow			- Mineral Soils		
Sedimentation			Springs		
Sludge			Tributary(s)		
Thermal			Wetland	PL	U
Turbidity			Other - Specify:		
Other - Specify:					

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter <i>Kydra Wilcox</i>	Taxonomist <i>Dimick Jeffrey</i>	Estimated Percent of Sample Sorted <i>7%</i>
Date Processed <i>6/15/18</i>	Specimens Saved <i>Subsample archived in ABL until Oct 2021</i>	

CI=300

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Paracornia angulata</i>	L	x	10	Hitch 1974		
<i>Amphinemura</i>	L	x1	11	Hils 1995		
<i>Baetis</i>	L	i	1	Klub 2016	imm	N
<i>B. brunneicolor</i>	L	i	1	"		
<i>Acerpenna</i>	L	x-III	19	"	dam	N
<i>A. maddunoughi</i>	L	x-III	20	"		
<i>Eurylophella</i>	L	III	3	"		
<i>Eu. funeralis</i>	L	II	2	"		
<i>Maccaffertium</i>	L	III	4	"		
<i>Leptophlebiidae</i>	L	II	2	"	dam	N
<i>Paraleptophlebia</i>	L	i	1	"	imm	
<i>Gorduleaster</i>	L	i	1	Need et al 2000	imm	
<i>Dipterostoma modesta</i>	L	i	1	Hils 1995		
<i>Oxyethira</i>	L	i	1	"		
<i>Philopotamidae</i>	L	i	1	"	imm	N
<i>Chimarra</i>	L	III	4	"	imm	N
<i>Ch. aterrita</i>	L	II	2	Hils 1992		
<i>Phyaophila</i>	L	II	2	Hils 1995	imm	
<i>Neophylax</i>	L	-i	6	"	imm	
<i>optioservus</i>	L	III	4	Hils Schum 1992	imm	N
<i>D. fastiditus</i>	L, A	III	3	"		
<i>Probezzia</i>	L	i	1	Hils 1995		
<i>Ceratopogon culicoidithorax</i>	L	i	1	"		
<i>Bezzia/Palparmyia</i>	L	III	3	"		
<i>Prosimulium</i>	L	III	24	Adler et al 2004	imm	N
<i>P. fuscum</i>	L	III	57	"		
<i>Stegopterna</i>	L	x-III	13	"		
<i>Pseudolimnophila</i>	L	-II	7	Hils 1995		
<i>Tipula</i>	L	i	1	"		
<i>Lumbriculus</i>	A	II	2	Thorp Rog 2016		
<i>Pisidium</i>	A	-II	7	Burch 1972		
split A3 Chironomidae	L	III + JJD				
<i>Conchapelopia</i> 08270700	L	II	2	Cran Epl 2013		
<i>Zarembkomyia</i>	L	-III	9	"		
<i>Thienemannimyia</i> group	L	i	1	"	imm	N
<i>Orthoclaadiinae</i> 08300000	L	i	1	Cranston 2013	imm	N

