

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name Unnamed. trib to WF Montreal	Waterbody ID Code 5001983	Sample ID (YYYYMMDD-CY-FD) 20181002-26-03
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Sampling Location

150 m DS Center Drive.

SWIMS Station ID 10051580	SWIMS Station Name Un Trib. (5001983) to W.F. Montreal 150m DS center	Database Key 172591248
Latitude 46.47205	Longitude -90.26092	Lat/Long Determination method (circle) SWIMS SWDV <u>GPS</u>
Basin (WMU) Lake Superior		Datum Used if using GPS NAD 27 or NAD83

Watershed Name Montreal River	County Iron
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Sample and Site Descriptors

Sample Collector (Last Name, First) Kleist Jon	Project Name Montreal TWA
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Sampling Device

- 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	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: TWA

Water Temp. (C) 9.00	D.O. (mg/l) 11.6	D.O. (% sat.) 99.9	pH (su) 7.4	Conductivity (umhos/cm) 109	Transparency (cm) 7120
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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 checked="" type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input type="checkbox"/> Fast (> 0.5 m/s)
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Measured Velocity circle units mps or cfs	Average Stream Depth of reach (m) 3	Average Stream Width of reach (m) 0.3
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball or basketball): 80 Gravel (ladybug to tennisball.): 10
 Sand: 10 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Course Woody Debris: _____ Other (): _____

Embeddedness of Substrate at Sample Site (%) 20 **Canopy Cover at Sample Site (%)** 80

Wadeable Macroinvertebrate Field Data Report

Form 3200-081 (R 08/14)

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

Comments

Special Instructions for Laboratory

ID = 209 Total = 209

For Lab Use Only

Sample Sorter Murphy Steinhilber	Taxonomist Dimick Jeffrey	Estimated Percent of Sample Sorted 7%
Date Processed 3/26/2019	Specimens Saved Subsample archived in ABL until Jun 2022	

Taxa	Life Stage	Benthic Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Paracappnia angulata</i>	L	01	21	Hatch 1974		
<i>Leuctra</i>	L	1	1	Hils 1995	dam	
<i>Isoperla signata</i>	L	-	5	Hils 1982		
<i>Taeniopteryx</i>	L	(III)	4	Hils 1995	imm	
<i>Isoperla</i>	L	"	2	"	imm	N
<i>Baetis tricardatus</i>	L	(II)	3	Kub 2016		
<i>Acerpenna</i>	L	1	1	"	dam	N
<i>A. maddonoughi</i>	L	-1	6	"		
<i>Ephemera subvaria</i>	L	ATT 1	6	"		
<i>Eurylophella funeralis</i>	L	(II)	3	"		
<i>Leuctra</i>	L	01	21	"		
<i>Maccaffertium viscarum</i>	L	-	5	"		
<i>Paraleptophlebia</i>	L	ATT	40	"	dam/imm	N
<i>P. mollis</i>	L	"	2	"		
<i>Cordulegaster</i>	L	(I)	2	Need et al 2002	imm	
<i>Hydropsyche betteni</i>	L	1	1	Schm Hils 1986		
<i>Ceratopsyche glossaria</i>	L	x	10	"		
<i>Lepidostoma</i>	L	ATT	5	Hils 1995		
<i>Philopotamidae</i>	L	1	1	"	imm	N
<i>Chimarra aterrima</i>	L	(II)	3	Hils 1982		
<i>Dolophilodes distinctus</i>	L	-1	6	Hils 1995		
<i>Nurgonia serricornis</i>	L	"	2	Neunzig 1966		
<i>Optiosevus</i>	L	(III)	23	Hils Schm 1992	imm	N
<i>O. fastidius</i> L, 2 A, 4	L, A	-1	6	"		
<i>Zistronotus</i>	A	1	1	Hils 1995		
<i>Atherix variegata</i>	L	-1	6	"		
<i>Simulium tuberosum</i> species complex	L	1	1	Adl et al 2004		
<i>Antocha</i>	L	1	1	Hils 1995		
<i>Dicranota</i>	L	(I)	2	"		
<i>Tipula</i>	L	(III)	4	"		
<i>Lumbriculus</i>	A	(III)	24	Thorp 2016		
<i>Physa</i>	A	(I)	2	"		
<i>Spiti A. Chironomidae</i>	L	(I)				
<i>Tanytarsus</i> 08270000	L	1	1	Cranston 2013	imm	
<i>Eukiefferella brehmi</i> group	L	1	1	Andt + 3 2013		
<i>Rheocricotopus</i>	L	1	1	"	imm	

