

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

Station Summary

Waterbody Name Unnamed trib to Laymans Cr.		Waterbody ID Code 2948100	Sample ID (YYYYMMDD-CY-FD) 20181101-26-03
Sampling Location 2 m US of Footbridge			Database Key 168768997
SWIMS Station ID 10051592	SWIMS Station Name UNNAMED (2948100) TRIB TO LAYMANS CREEK 10 M US OF FOOTBRIDGE		
Latitude 46.32518	Longitude -90.15807	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) 2	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 Riv. TWA-

Water Temp. (C) 2.71	D.O. (mg/l) 11.8	D.O. (% sat.) 86.9	pH (su) 6.1	Conductivity (umhos/cm) 22 uS	Transparency (cm) >120
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Water Color <input type="checkbox"/> Clear <input type="checkbox"/> Turbid <input checked="" 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 0.2	circle units m/s or f/s	Average Stream Depth of reach (m) 0.3	Average Stream Width of reach (m) 2
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Composition of Substrate Sampled (Percent):

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

Embeddedness of Substrate at Sample Site (%) 30
Canopy Cover at Sample Site (%) 90

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

Comments

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter Logan Cutler	Taxonomist Dimick Jeffrey	Estimated Percent of Sample Sorted 20%
Date Processed 3/30/19	Specimens Saved 29 + 75 + 78 = 182 subsample archived in ABL until Jun 2022	
	EI BI AI B Total 2 Shr 2hr	

Taxa	Life Stage	Benthic Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Allocaenia</i>	L	I	1	Hils 1995		
<i>Taeniopteryx</i>	L	IIII	5	"	imm	N
<i>T. burksi</i>	L	IIII	9	Full Stew 1980		
<i>Aecyperna</i>	L	I	6	Klob 2016	dam	N
<i>A. macdunnoughi</i>	L	I	1	"		
<i>Maccabertum vicarium</i>	L	II	2	"		
Leptophlebiidae	L	II	2	"	dam/imm	N
<i>Leptophlebia</i>	L	I	5	"	dam/imm	N
<i>L. cupida</i>	L	IIII	4	"		
<i>Paraleptophlebia</i>	L	I	1	"	imm	
<i>Hydropsyche betteni</i>	L	II	2	Schm Hils 1986		
<i>Diplectrona madista</i>	L	II	2	Hils 1995		
Limnephilidae	L	I	1	"	imm	
<i>Chimarra</i>	L	II	2	"	imm	N
<i>Ch. atterrima</i>	L	I	1	Hils 1982		
<i>Lynx diversa</i>	L	I	1	Hils 1995		
<i>Nigronia serricornis</i>	L	IIII	4	Meunzig 1966		
<i>Dicranophia</i>	L	I	1	Hils Schm 1992		
<i>Onicoservus</i>	L	IIII	9	"	imm	N
<i>O. fastiditus</i>	L	I	1	"		
<i>Stenelmis crenata</i>	A	I	1	"		
<i>S. grossa</i>	A	I	1	"		
<i>Bezzia/Palpomysia</i>	L	IIII	9	Hils 1995		
<i>Prosimulium</i>	L	IIII	8	Adl et al 2004		
<i>Stegopterna</i>	L	XXXX	54	"		
<i>Dicranota</i>	L	I	1	Hils 1995		
<i>Pseudolimnophila</i>	L	III	3	"		
<i>Tripula</i>	L	I	1	"		
<i>Lebertia</i>	A	III	3	Pluch 1984		
Naidinae	A	I	1	Braunfeld 1991		
Tubificinae (with hairs)	A	I	1	Klemm 1985		
<i>Metagynophasa = Megadrili</i>	A	I	1	Thorp Reg 2016		
<i>Lumbricolus</i>	A	I	6	"		
<i>Pisidium</i>	A	X-I	16	Burch 1972		
<i>Spitk Az Chironomidae</i>	L	IIII				
<i>Conchapelapisa</i> 08270700	L	I	1	Cran Ep 2013		

