

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

Station Summary					
<b>Waterbody Name</b> FOURCHE CREEK		<b>Waterbody ID Code</b> 2941300		<b>Sample ID (YYYYMMDD-CY-FD)</b> 20191009-26-05	
<b>Sampling Location</b> VS Lakehead Road.				<b>Database Key</b> 209649652	
<b>SWIMS Station ID</b> 10043236		<b>SWIMS Station Name</b> FOURCHE CREEK AT N LAKE HEAD RD			
<b>Latitude</b> 46.50167	<b>Longitude</b> -90.32988	<b>Lat/Long Determination Method (circle)</b> SWIMS SWDV <u>GPS</u>		<b>Datum Used if using GPS</b> <u>WGS84</u> or NAD83	
<b>Basin (WMU)</b> LAKE SUPERIOR		<b>Watershed Name</b> MONTREAL RIVER		<b>County</b> IRON	
Sample and Site Descriptors					
<b>Sample Collector (Last Name, First)</b> JOSEPH CUNNINGHAM			<b>Project Name</b> MONTREAL RIVER TWA 2017-2018-2019		
<b>Sampling Device</b>					
<input checked="" type="checkbox"/> D-Frame Kick Net		<input type="checkbox"/> Surber Sampler		<input type="checkbox"/> Eckman	
<input type="checkbox"/> Ponar		<input type="checkbox"/> Artificial Substrate		<input type="checkbox"/> Hess Sampler <input type="checkbox"/> Other: _____	
<b>Habitat Sampled</b>					
<input type="checkbox"/> Riffle		<input type="checkbox"/> Run		<input type="checkbox"/> Pool	
<input type="checkbox"/> Other		<input checked="" type="checkbox"/> Shoreline Composite		<input type="checkbox"/> Proportionally-Sampled Habitat	
<input type="checkbox"/> Littoral Zone		<input type="checkbox"/> Profundal Zone		<input type="checkbox"/> Wetland	
<b>Total Sampling Time (min)</b> 1	<b>Estimated Area Sampled (m<sup>2</sup>)</b> 3	<b>Number of Samples in Composite</b> 3		<b>Replicate No.</b> _____ <b>of</b> _____	
<b>Reason For Sampling</b>					
<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.	
<b>Water Temp. (C)</b> 10.6	<b>D.O. (mg/l)</b> 7.8	<b>D.O. (% sat.)</b> 70.4	<b>pH (su)</b> 7.1	<b>Conductivity (umhos/cm)</b> 156	<b>Transparency (cm)</b> >120
<b>Water Color</b> <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained			<b>Estimated Stream Velocity (m/s)</b> <input checked="" type="checkbox"/> Slow (< 0.15 m/s) <input type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input type="checkbox"/> Fast (> 0.5 m/s)		
<b>Measured Velocity</b> circle units m/s or f/s		<b>Average Stream Depth of reach (m)</b> 0.5		<b>Average Stream Width of reach (m)</b> 6	
<b>Composition of Substrate Sampled (Percent):</b>					
Bedrock: _____		Boulders (basketball or larger): _____		Rubble (tennisball to basketball): _____	
Sand: _____		Clay: _____		Silt/Muck: 20	
Aquatic Macrophytes: 80		Leaf Snags: _____		Coarse Woody Debris: _____	
Other ( ): _____		Overhanging Vegetation: _____		Other ( ): _____	
<b>Embeddedness of Substrate at Sample Site (%)</b> N/A			<b>Canopy Cover at Sample Site (%)</b> 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	Watershed	Factors that may be influencing Water Resource Integrity	Local	Watershed
<b>Biological</b>			<b>Chemical</b>		
Algae: - Diatoms / Periphyton	N	N	Chlorine	N	N
- Filamentous Algae	N	N	Dissolved Oxygen	N	N
- Planktonic Algae	PL	PL	Nutrients (P, N...)	N	N
Iron Bacteria	N	U	Toxics: - Inorganic (Metals)	N	N
Macrophytes	PH	PL	- Organic (PCBs, pesticides...)	N	N
Slimes	N	N	Other - Specify:		
Other - Specify:			<b>Sources of Stream Impacts</b>		
			Bank Erosion	N	PL
			Point Source - Specify:	N	N
<b>Physical</b>			Pasturing of Livestock	N	PL
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	N
Impoundment: - Upstream	N	PL	Septic Systems	N	N
- Downstream	PL	PL	Tile Drainage - Organic Soils	N	N
Low Flow	PH	PL	- Mineral Soils	N	N
Sedimentation	N	N	Springs	N	U
Sludge	N	N	Tributary(s)	N	PL
Thermal	N	N	Wetland	PL	PL
Turbidity	N	N	Other - Specify:		
Other - Specify:					

Comments

Special Instructions for Laboratory

**For Lab Use Only**

Sample Sorter <i>Logan Cutler</i>	Taxonomist <i>Dimick Jeffrey</i>	Estimated Percent of Sample Sorted 20%
Date Processed 2/24/2020	Specimens Saved 64 + 47 + 42 = 143	

E1 B2 B3 Total  
 subsample archived in ABL vial Jul 2023

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Callibaetis	L		4	Klub 2016		
Labiobaetis propinquus	L		3	"		
Caenis	L		2	"	imm	
Eurylophella	L		3	"	imm	
Leptophlebia	L		4	"	imm	
Neserocaris interrupta	A		1	Hils 1984a		
Sigara compressoides	A		3	"		
Libellulidae	L		1	Needetal 2014	imm	
Limnephilidae	L	-	8	Hils 1985	imm	N
Nemotaulius hostilis	L	"	2	"		
Platycentropus amicus	L		1	Wigg 1996		
Anygoneidae	L		4	Hils 1985	imm	N
Ptilostomis	L		1	"		
Elophila	L		1	MerrLynnB 2019		
Halipus	L		1	Hils 1985		
Oxyethira	L	x-	17	"		
Mallachophleba	L		1	"		
Ephydriidae	L		1	MerrLynnB 2019		
Tipula	L		1	Hils 1985		
Pericoma	L	-	5	"		
Corynoneura	P		1	MerrLynnB 2019		
Styrella willbarni	A	8-	45	Sawicki et al 2015		
Trombidiformes	A		1	Thorp Poy 2016	imm	Y
Hydrobates	A	-	7	Pluckner 1984		
Lebertia	A		4	"		
Limnesia	A		3	"		
Cyclopidae	A		2	Thorp Poy 2016		
Chydoridae	A	-	7	"		
Daphniidae	A	-	6	"		
Maldinae	A		1	Bronfeld 1991		
Whifocerae (without hairs)	A		1	Klemm 1985		
Fossarria	A	o	24	Burch 1989		
Gyraulus circumstriatus	A	-	4	Thorp Poy 2016		
G. deflectus	A		1	"		
Planorbula armigera	A		2	"		
Corynoneura	L		4	Andt 3 2013		N
Parametrioctenus	L	x	11	"		

