

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name <u>Unnamed Trib to Fourche Creek</u>		Waterbody ID Code <u>5002045</u>	Sample ID (YYYYMMDD-CY-FD) <u>20191009-26-10</u>
Sampling Location <u>Downstream Kimball Drive</u>			Database Key 226463873
SWIMS Station ID 10053339	SWIMS Station Name UNNAMED TRIBUTARY TO FOURCHE CREEK DS KIMBALL DRIVE		
Latitude <u>46.47887</u>	Longitude <u>-90.32380</u>	Lat/Long Determination Method (circle) SWIMS SWDV <u>GPS</u>	Datum Used if using GPS WGS84 or <u>NAD83</u>
Basin (WMU)	Watershed Name		County <u>Iron</u>

Sample and Site Descriptors

Sample Collector (Last Name, First) JOSEPH CUNNINGHAM	Project Name MONTREAL RIVER TWA 2017-2018-2019 (2021 WQPLAN)
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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) <u>1 min</u>	Estimated Area Sampled (m ²) <u>1 m²</u>	Number of Samples in Composite <u>3-20 second kicks</u>	Replicate No. <u>1</u> of <u>1</u>
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Reason For Sampling

Least Impacted Reference
 Baseline
 Impact / Treatment Site
 Control Site
 Trend
 Other: TWA

Water Temp. (C) <u>12.6</u>	D.O. (mg/l) <u>9.2</u>	D.O. (% sat.) <u>86.1</u>	pH (su) <u>7.2</u>	Conductivity (umhos/cm) <u>102</u>	Transparency (cm) <u>>120</u>
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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 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)
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Measured Velocity circle units m/s or f/s	Average Stream Depth of reach (m) <u>0.2 m</u>	Average Stream Width of reach (m) <u>2.0 m</u>
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): 10 Rubble (tennisball to basketball): 50 Gravel (ladybug to tennisball): 40
 Sand: _____ Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (): _____

Embeddedness of Substrate at Sample Site (%) 20
 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		PL	PL	Chlorine			
- Filamentous Algae				Dissolved Oxygen			
- Planktonic Algae				Nutrients (P, N...)			
Iron Bacteria		PH	PH	Toxics: - Inorganic (Metals)			
Macrophytes				- Organic (PCBs, pesticides...)			
Slimes				Other - Specify:			
Other - Specify:				Sources of Stream Impacts			
				Bank Erosion			
				Point Source - Specify:			
				Pasturing of Livestock			
Physical				Runoff: - Barnyard			
Bank Erosion				- Construction			
Channelization: - Upstream				- Cropland			
- Downstream				- Urban			
Hydraulic Scour / Channel Incision				Septic Systems			
Impoundment: - Upstream				Tile Drainage - Organic Soils			
- Downstream				- Mineral Soils			
Low Flow		PH	PH	Springs		PH	PH
Sedimentation				Tributary(s)			
Sludge				Wetland		PL	PL
Thermal				Other - Specify:			
Turbidity							
Other - Specify:							

Comments *stream bed dried up in summer, no flow. Only water standing in pools, must have been ground water influence.*

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter <i>Logan Cutler</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>60%</i>
Date Processed <i>3/2/2020</i>	Specimens Saved <i>23 + 21 + 14 + 13 + 48 + 7 = 126</i>	

B2 D3 C3 E1 | C/D2/B/V/L2 | D1 Total
3 hr | 2 hr | .5 hr
subsample archived in ABZ until Jul 2023

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Eurylophella funeralis</i>	L	1	1	Hils 2016		
<i>Corbicula leaeaster</i>	L	ii	2	Tennessen 2019	imm	
<i>Allocaecilia</i>	L	Ø III	34	Hils 1995		
<i>Nemouridae</i>	L	i	1	"	imm	
<i>Taeniopteryx</i>	L	ii	6	"	imm	
<i>Microsema gelidum</i>	L	i	1	Hils 1995		
<i>Diplectrona modesta</i>	L	ii	2	Hils 1995		
<i>Lepidostoma</i>	L	i	1	"		
<i>Limnephilidae</i>	L	-i	6	"	imm	N
<i>Limnephilus</i>	L	i	1	"		
<i>Rhyacophila</i>	L	-i	6	"	imm	
<i>Oligostomis acelligera</i>	L	ii	2	"		
<i>Neophylax</i>	L	-	5	"		
<i>Optiservus</i>	L	x	10	Hils Schum 1992	imm	N
<i>O. fastiditus</i>	L, A	L, 3 A, 7	10	"		
<i>Hydrobius sens lat</i>	L	ii	2	Hils 1995		
<i>Ceratopogon calicoidithorax</i>	L	i	1	"		
<i>Bezzia/Palpomysia</i>	L	-III	9	"		
<i>Prosimulium</i>	L	ii	2	Adl. et al 2004		
<i>Dicranota</i>	L	ii	2	Hils 1995		
<i>Tipula</i>	L	i	1	"		
<i>Trombiciformes</i>	A	ii	2	Thorp Reg 2016		Y
<i>Lebertia</i>	A	i	1	Pluckers 1984		
<i>Sperchon</i>	A	iii	3	"		
<i>Entomobryidae</i>	A	i	1	Merlino B 2019		
<i>Enchytraeidae</i>	A	-ii	7	Thorp Reg 2016		
<i>Naidinae</i>	A	i	1	Brinfield 1991		
<i>Megadrili = Metaglyphara</i>	A	-III	9	Thorp Reg 2016		
<i>Lumbriculus</i>	A	88xiii	94	"		
<i>Erebodellidae</i>	A	iii	4	"	imm	
<i>Sphaeriidae</i>	A	i	1	"	imm	
<i>Pisidium</i>	A	i	1	Mackie 2007		
<i>Siphonura</i>	L	xii	12			
<i>Chironomidae</i>	L	xii	12			
<i>Parametrioecnemus</i>	L	iii	3	Andt 3 2013		
<i>Thienemannimyza group</i>	L	i	1	Cran EPI 2013	imm	
<i>Orthocladiinae 09300000</i>	L	i	1	Cranston 2013	imm	
<i>Chaetocladius</i>	L	ii	2	Andt 3 2013		

