

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

Station Summary

Waterbody Name TYLER FKS	Waterbody ID Code 2923100	Sample ID (YYYYMMDD-CY-FD) TF-01 20190924-26-02
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Sampling Location 50 m US Vogues Rd.	Database Key 207081657
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SWIMS Station ID 10042745	SWIMS Station Name TYLER FORKS RIVER 68M US VOGUES ROAD
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Latitude 46.41315	Longitude -90.51654	Lat/Long Determination Method (circle) SWIMS SWDV <u>GPS</u>	Datum Used if using GPS <u>WGS84</u> or NAD83
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Basin (WMU) LAKE SUPERIOR	Watershed Name TYLER FORKS	County IRON
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Sample and Site Descriptors

Sample Collector (Last Name, First) JOSEPH CUNNINGHAM	Project Name NOR LONG-TERM TREND WADEABLE REFERENCE STREAM
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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) 1	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: _____

Water Temp. (C) 17.9	D.O. (mg/l) 9.3	D.O. (% sat.) 98.0	pH (su) 7.9	Conductivity (umhos/cm) 111	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 type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input checked="" type="checkbox"/> Fast (> 0.5 m/s)
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Measured Velocity 0.6	circle units <u>m/s</u> or f/s	Average Stream Depth of reach (m) 0.2	Average Stream Width of reach (m) 10
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 70 Gravel (ladybug to tennisball): 30
 Sand: _____ Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (____): _____

Embeddedness of Substrate at Sample Site (%) 0 **Canopy Cover at Sample Site (%)** 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	Water-shed	Factors that may be influencing Water Resource Integrity	Local	Water-shed
Biological			Chemical		
Algae: - Diatoms / Periphyton	PL	PL	Chlorine	N	N
- Filamentous Algae	N	N	Dissolved Oxygen	N	N
- Planktonic Algae	N	N	Nutrients (P, N...)	N	N
Iron Bacteria	N	PL	Toxics: - Inorganic (Metals)	N	N
Macrophytes	N	N	- Organic (PCBs, pesticides...)	N	N
Slimes	N	N	Other - Specify:		
Other - Specify:			Sources of Stream Impacts		
			Bank Erosion	PL	PL
			Point Source - Specify:	N	N
Physical			Pasturing of Livestock	N	N
Bank Erosion	PL	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	N	N	Tile Drainage - Organic Soils	N	N
Low Flow	N	N	- Mineral Soils	N	N
Sedimentation	N	N	Springs	N	PL
Sludge	N	N	Tributary(s)	N	PL
Thermal	N	N	Wetland	N	PL
Turbidity	N	N	Other - Specify:		
Other - Specify:					

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter Raatz, Trevor	Taxonomist Dimick, Jeffrey	Estimated Percent of Sample Sorted 11%
Date Processed 11/4/2020	Specimens Saved 132	

D3: Q1: 12
 A2: Q4: 35: 47
 D3: Q3: 10: 57
 A2: Q1: 21: 78
 D3: Q2: 13: 91

A2: Q2: 22: 113
 P3: Q3: 19: 132

Subsample archived in AB until Dec 2023

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Acentrella turbida	L III		3	Klub 2016		
Ephemera	L II		2	Merrillum B 2019		
Maccallertium	L II		2	Klub 2016	imm	N
M. modestum	L III		3	"		
M. vicarium	L II		7	"		
Epeorus vitreus	L XI		11	"		
Lencrocuta	L XII		12	Merrillum B 2019		
Zithrocona	L II		2	"	imm	
Parabiosphlebia	L III		8	Klub 2016	imm	
Isonychia	L I		1	Merrillum B 2019	imm	
Gomphidae	L I		1	"	imm	
Acrocheura	L III		3	"	imm	N
A. lycarax	L II		2	Hitch 1974		
Isonychia	L I		1	Merrillum B 2019	imm	N
I. signata	L I		1	Hils 1982		
Taeniopteryx	L XII		13	Merrillum B 2019	imm	
Glossosoma	L III		4	"	imm	
Hydropsychidae	L I		1	"	imm	N
Ceratopsyche morosa	L IV		3	Schm Hils 1986		
C. walkeri	L I		1	"		
Cheumatopsyche	L I		1	Merrillum B 2019		
Chimarra	L I		1	"	imm	
Optipervus	L III		3	"	imm	N
O. trivittatus	L XI		16	Hils Schm 1992		
Adherix variegata	L II		2	Hils 1995		
Orthocladius (Orthocladius)	P I		1	Wieder 1986		
Nemeroptera	L II		2	Merrillum B 2019		
Simulium	L I		1	"	imm	Y
S. mirmanicum	L II		2	Adl et al 2004		
Hybomitra	L I		1	Merrillum B 2019		
Antocha	L I		1	"		
Nematoma	L III		4	"		
Pseudolimnaphila	L I		1	"		
Naidinae	A III		4	Kath Brn 1998		
Lumbriculus	A II		2	Thorp Pags 2016		
Spiliza Chironomidae	L XIII					
Diamesa	L I		1	And et al 2013		

