

Instructions: Bold fields must be completed.

Station Summary					
Waterbody Name TYLER FKS		Waterbody ID Code 2923100		Sample ID (YYYYMMDD-CY-FD) 20161003-26-01	
Sampling Location US Vogues Rd				Database Key 133643879	
SWIMS Station ID 10042745		SWIMS Station Name TYLER FORKS RIVER 68M US VOGUES ROAD			
Latitude 46.41309	Longitude -90.51696	Lat/Long Determination Method (circle) SWIMS <u>SWDV</u> GPS		Datum Used if using GPS WGS84 or NAD83	
Basin (WMU) LAKE SUPERIOR		Watershed Name TYLER FORKS		County IRON	
Sample and Site Descriptors					
Sample Collector (Last Name, First) JON KLEIST			Project Name NOR LONG-TERM TREND WADEABLE REFERENCE STREAMS		
Sampling Device					
<input checked="" type="checkbox"/> 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: _____					
Habitat Sampled					
<input checked="" type="checkbox"/> Riffle <input type="checkbox"/> Run <input type="checkbox"/> Pool <input type="checkbox"/> Other <input type="checkbox"/> Shoreline Composite <input type="checkbox"/> Proportionally-Sampled Habitat <input type="checkbox"/> Littoral Zone <input type="checkbox"/> Profundal Zone <input type="checkbox"/> Wetland					
Total Sampling Time (min) 7	Estimated Area Sampled (m ²) 2		Number of Samples in Composite 1 2		Replicate No. 1 of 1
Reason For Sampling					
<input checked="" 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 type="checkbox"/> Other: _____					
Water Temp. (C) 14.02	D.O. (mg/l) 11.40	D.O. (% sat.) 110.4	pH (su) 6.91	Conductivity (umhos/cm) 68	Transparency (cm) 7120.00
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)		
Measured Velocity circle units m/s or f/s		Average Stream Depth of reach (m) .3		Average Stream Width of reach (m) 10	
Composition of Substrate Sampled (Percent):					
Bedrock: _____		Boulders (basketball or larger): 15	Rubble (tennisball to basketball): 85	Gravel (ladybug to tennisball): _____	
Sand: _____		Clay: _____	Silt/Muck: _____	Overhanging Vegetation: _____	
Aquatic Macrophytes: 0		Leaf Snags: 0	Coarse Woody Debris: 0	Other (____): _____	
Embeddedness of Substrate at Sample Site (%) 0			Canopy Cover at Sample Site (%) 50		

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		PH	PH	Chlorine		~	~
- Filamentous Algae		~	~	Dissolved Oxygen		~	~
- Planktonic Algae		~	~	Nutrients (P, N...)		~	~
Iron Bacteria		~	~	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		PL	PL	- Construction		~	~
Channelization: - Upstream		~	~	- Cropland		~	~
- Downstream		~	~	- Urban		~	~
Hydraulic Scour / Channel Incision		~	~	Septic Systems		~	~
Impoundment: - Upstream		~	~	Tile Drainage - Organic Soils		~	~
- Downstream		~	~	- Mineral Soils		~	~
Low Flow		~	~	Springs		~	PL
Sedimentation		~	~	Tributary(s)		~	PL
Sludge		~	~	Wetland		~	PL
Thermal		~	~	Other - Specify:		~	~
Turbidity		~	~				
Other - Specify: High Flow Events - Flooding Scour		PH	PH				

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter Justin Kowalski	Taxonomist Dimick, Jeffrey	Estimated Percent of Sample Sorted 27%
Date Processed 10/10/17	Specimens Saved Subsample archived in ABC vial Dec 2020	

A1 C3 E2 A3 C1 B2
 52 24 32 21

129

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Paracapnia angulata</i>	L	II	2	Hrtchack 1974		
<i>Acronecia</i>	L	I	1	Hilsenhoff 1995		
Perlodidae	L	I	1	"	imm	N
<i>Isoneta signata</i>	L	II	2	Hilsenhoff 1982		
<i>Demopteryx/Strophopteryx</i>	L	II	2	Schmidt unpubl	imm	
Ephemeroptera	L	I	1	Cran., Daly 2008	imm	N
<i>Acentrella turbida</i>	L	III	3	Klumbertanz 2016		
<i>Ephemerella</i>	L	III	5	"	imm	
Heptageniidae	L	III	8	"	dev/imm	N
<i>Epeorus vitreus</i>	L	II	2	"		
<i>Leucocrota</i>	L	-II	7	"		
<i>Rhythrogena</i>	L	I	1	"	dam	N
<i>Rh. jejunus</i>	L	-	5	"		
<i>Maccaffertium</i>	L	I	1	"	imm	N
<i>M. modestum</i>	L	I	1	"		
<i>M. vicarium</i>	L	II	2	"		
Leptophlebiidae	L	I	1	"	imm	N
<i>Paraleptophlebia</i>	L	-	5	"	dam/imm	N
<i>P. mollis</i>	L	I	1	"		
Gomphidae	L	II	2	Need, et al 2000	imm	
<i>Glossosoma</i>	L	II	2	Hilsenhoff 1995	imm	N
<i>Ceratopsyche mucosa mucosa form</i>	L	II	2	Schm., Hils. 1986		
<i>C. sparna</i>	L	I	1	"		
<i>C. walkeri</i>	L	I	1	"		
<i>Leuctrichia pictipes</i>	L	I	1	Hilsenhoff 1995		
Setodes	L	I	1	"		
<i>Animarra</i>	L	II	2	"	imm	
<i>Psychomyia flavida</i>	L	I	1	"		
<i>Glossosoma intermedium</i>	L	I	1	Wymer, Morse 2000		
<i>Opatoservus</i>	L	XIII	13	Hils., Schm. 1982	imm	N
<i>O. sp. trivittatus</i>	L	-I	6	"		
<i>Stenelmis</i>	L	I	1	"		
<i>Atherix variegata</i>	L	III	3	Hilsenhoff 1995		
<i>Antocha</i>	L	I	1	"		
<i>Neserocoenopa dolichophallus</i>	L	I	1	"		
<i>Nematoma</i>	L	II	2	"		
<i>Pseudolimnephila</i>	L	I	1	"		

