

Instructions: Bold fields must be completed.

Station Summary			
Waterbody Name EIGHTEENMILE CREEK		Waterbody ID Code 2895900	Sample ID (YYYYMMDD-CY-FD) 20190906-04-02
Sampling Location US Old Hwy 63		Database Key 204991585	
SWIMS Station ID 043097		SWIMS Station Name EIGHTEEN MILE CREEK - 20 M UPSTREAM OLD HWY 63 - STATION #3	
Latitude 46.36015	Longitude 91.12515	Lat/Long Determination Method (circle) SWIMS SWDV <u>GPS</u>	Datum Used if using GPS <u>WGS84</u> or NAD83
Basin (WMU) LAKE SUPERIOR		Watershed Name WHITE RIVER	County BAYFIELD

Sample and Site Descriptors	
Sample Collector (Last Name, First) AARON NELSON ROESLER, CRAIG	Project Name NOR LONG-TERM TREND WADEABLE REFERENCE STREAM

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 (m ²) 2	Number of Samples in Composite 3	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: _____

Water Temp. (C) 13.0	D.O. (mg/l) 10.5	D.O. (% sat.) 103.4	pH (su) 8.0	Conductivity (umhos/cm) 118	Transparency (cm) >120
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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 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 0.7 circle units m/s or (f/s)	Average Stream Depth of reach (m) 0.3	Average Stream Width of reach (m) 7
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 50 Gravel (ladybug to tennisball): 40
 Sand: 10 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 (%) 70

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				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:			
Physical				Pasturing of Livestock			
Bank Erosion				Runoff: - Barnyard			
Channelization: - Upstream				- Construction			
- Downstream				- Cropland			
Hydraulic Scour / Channel Incision				- Urban			
Impoundment: - Upstream				Septic Systems			
- Downstream				Tile Drainage - Organic Soils			
Low Flow				- Mineral Soils			
Sedimentation				Springs			
Sludge				Tributary(s)			
Thermal				Wetland			
Turbidity				Other - Specify:			
Other - Specify:							

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter PRV	Taxonomist Dimick, Jeffrey	Estimated Percent of Sample Sorted 10 %
Date Processed 10/13/2020	Specimens Saved Subsample archived in ABC until Nov 2023	

E3⁰³ C2⁰³ E3⁰¹ C2⁰² E3⁰⁴ C2⁰¹
 24 31 31 23 12 31

(152)

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Baetis tairanoides</i>	L	xii	13	Klub 2016		
<i>B. flavistriga</i> species complex	L	ii	3	"		
<i>Ephemerella</i>	L	iiii	4	Merrillum B 2019	imm	N
<i>E. aurivillii</i>	L	ii	2	Klub 2016		
<i>E. subvaria</i>	L	ii	2	"		
<i>Heptagenia pulla</i>	L	i	1	"		
<i>Rhythrogena</i>	L	-viii	11	Merrillum B 2019	imm	
Leptanthebiidae	L	i	1	"	dam	
Perlodidae	L	i	1	"	imm	N
<i>Isonyia frontalis</i>	L	v	5	Hils Bill 1973		
<i>Isonyia</i>	L	i	1	Merrillum B 2019	imm	
<i>Pteronareys</i>	L	i	1	"	imm	
<i>Brachycentrus americanus</i>	L	iii	3	Hils 1985		
<i>B. occidentalis</i>	L	v	5	"		
<i>Glossosoma</i>	L	x#	15	Merrillum B 2019	imm	N
<i>G. intermedium</i>	L	ii	3	Wyn Mar 2000		
<i>Ceratopsyche glossosoma</i>	L	i	1	Schmitts 1986		
<i>C. spuma</i>	L	i	1	"		
<i>Lepidostoma</i>	L	xiiii	14	Merrillum B 2019		
<i>Rhyacophila</i>	L	i	1	"	imm	
<i>Meghyllax</i>	L	i	1	"	imm	
<i>Optio serenus</i> sp	L	i	1	"	imm	N
<i>O. frivittatus</i> frivittatus	A	ii	2	Hils Schmitt 1992		
<i>Atherix variegata</i>	L	-i	6	Hils 1985		
<i>Cricotopus</i> (Cricotopus)	P	i	1	Wieder 1986		
<i>Eukiefferiella</i>	P	i	1	Merrillum B 2019		N
<i>Simulium tuberosum</i> species complex	L	i	1	Adl et al 2004		
<i>Antocha</i>	L	ii	2	Hils Merrillum B 2019		
<i>Hesperocampa colichophallus</i>	L	ii	2	Hils 1985		
<i>Hexatoma</i>	L	i	1	Merrillum B 2019		
<i>Naidinae</i>	A	iii	3	Kath Ben 1998		
SpH A2 Chironomidae	L	xiii	13			
<i>Oramesa</i>	L	i	1	Adl et al 2013		
<i>Parametriocnemus</i>	L	i	1	"		
<i>Pothastia longimana</i> group	L	i	1	"		
Orthocladinae 08300000	L	A	2	"	dam	N
<i>Eukiefferiella</i>	L	i	1	"	mt indet	N

