

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name PRE-EMPTION CREEK	Waterbody ID Code 2895200	Sample ID (YYYYMMDD-CY-FD) 20161010-04-01
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Sampling Location 30m US Camp 8 Rd.	Database Key 134667373
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SWIMS Station ID 10013195	SWIMS Station Name PRE-EMPTION CREEK-40 METERS UPSTREAM OF CAMP 8 ROAD- STATION #1
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Latitude 46.32800	Longitude -91.08715	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 WHITE RIVER	County BAYFIELD
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Sample and Site Descriptors

Sample Collector (Last Name, First) CRAIG ROESLER	Project Name NOR LONG-TERM TREND WADEABLE REFERENCE STREAMS
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Sampling Device

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)	Estimated Area Sampled (m²)	Number of Samples in Composite	Replicate No. _____ of _____
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Reason For Sampling

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

Water Temp. (C) 8.3	D.O. (mg/l) 10.8	D.O. (% sat.)	pH (su) 7.5	Conductivity (umhos/cm) 110	Transparency (cm) 7120
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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 checked="" 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 1.0	circle units m/s or <u>f/s</u>	Average Stream Depth of reach (m) 0.25	Average Stream Width of reach (m) 2
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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 (%)** 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	Watershed	Factors that may be influencing Water Resource Integrity		Local	Watershed
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:			
				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				Springs			
Sedimentation				Tributary(s)			
Sludge				Wetland			
Thermal				Other - Specify:			
Turbidity							
Other - Specify:							

Comments

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter <i>Allison Kuhne</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>71%</i>
Date Processed <i>11-29-16</i>	Specimens Saved <i>subsample archived in ABC until Nov 2020</i>	

E2-125

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Paracapnia angulata</i>	L	x	10	Nilsenhoff 1974		
<i>Isoperla transmarina</i>	L	4	2	Nilsenhoff 1982		
<i>Baetis tricaudatus</i>	L	1	1	Kluber-Tanz 2016		
<i>Ephemerella subvaria</i>	L	IIII	4	"		
<i>Leucocrota</i>	L	III	3	"		
<i>Maccaffertium</i>	L	IIII	1	"	dam	N
<i>M. vicarium</i>	L	II	2	"		
<i>Paraleptophlebia</i>	L	5-	35	"	imm	
<i>Glossosoma</i>	L	1	1	Nilsenhoff 1995	imm	N
<i>G. intermedium</i>	L	xIII	13	Wynn, Morse 2002		
<i>Glossosoma</i>	P	1	1	Wynn, Cur. 2008		
<i>Chumatopsyche</i>	L	-II	7	Nilsenhoff 1995		
<i>Hydropsychidae</i>	L	II	2	"	imm	N
<i>Hydropsyche betteni</i>	L	1	1	Schmitt, 1966		
<i>Ceratopsyche sparna</i>	L	-III	8	"		
<i>Lepidostoma</i>	L	-II	7	Nilsenhoff 1995		
<i>Chimarra</i>	L	-III	10	"		
<i>Ch. aterrima</i>	L	x-III	18	Nilsenhoff 1982		
<i>Nigronia serricornis</i>	L	1	1	Neunzig 1966		
<i>Dubiraphia</i>	L	1	1	Hils, Schmitt 1992		
<i>Otioporus</i>	L	II	2	"	imm	N
<i>O. fastidius</i>	A	II	2	"		
<i>Stenelmis</i>	L	1	1	"		N
<i>S. crenata</i>	A	1	1	"		
<i>Bezzia/Pelponymia</i>	L	1	1	Nilsenhoff 1995		
<i>Simulium tuberosum</i> species group	L	1	1	Adler et al 2004		
<i>Pseudolimnophila</i>	L	IIII	4	Nilsenhoff 1995		
<i>Tricladida</i>	A	III	3	Kelasa 1991		
<i>Naidinae</i>	A	1	1	Benn, Geld. 1991		
<i>Tubificinae w/o capilliform chaetae</i>	A	III	3	Klamm 1985		
<i>Gyraudis defiectus</i>	A	1	1	Burch 1982		
<i>Parametrocnemus</i>	L	III	3	Anders + B 2013		
<i>Asatanytarsus longistylus</i>	L	1	1	Epler et al 2013		
<i>Polypedilum (Uresipidilum) auriceps</i>	L	III	3	Bolton 2012		