

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

**Station Summary**

<b>Waterbody Name</b> EIGHTEENMILE CREEK	<b>Waterbody ID Code</b> 2895900	<b>Sample ID (YYYYMMDD-CY-FD)</b> 20161003-04-01
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<b>Sampling Location</b> 30m US Old Hwy 63	<b>Database Key</b> 134667369
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<b>SWIMS Station ID</b> 043097	<b>SWIMS Station Name</b> EIGHTEEN MILE CREEK - 20 M UPSTREAM OLD HWY 63 - STATION #3
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<b>Latitude</b> 46.36010	<b>Longitude</b> -91.12534	<b>Lat/Long Determination Method (circle)</b> SWIMS SWDV <u>GPS</u>	<b>Datum Used if using GPS</b> <u>WGS84</u> or NAD83
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<b>Basin (WMU)</b> LAKE SUPERIOR	<b>Watershed Name</b> WHITE RIVER	<b>County</b> BAYFIELD
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**Sample and Site Descriptors**

<b>Sample Collector (Last Name, First)</b> CRAIG ROESLER	<b>Project Name</b> 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

<b>Total Sampling Time (min)</b> 1	<b>Estimated Area Sampled (m<sup>2</sup>)</b> 1.5	<b>Number of Samples in Composite</b> 3	<b>Replicate No.</b> 1 <b>of</b> 1
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**Reason For Sampling**

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

<b>Water Temp. (C)</b> 10.0	<b>D.O. (mg/l)</b> 10.0	<b>D.O. (% sat.)</b>	<b>pH (su)</b> —	<b>Conductivity (umhos/cm)</b> 121	<b>Transparency (cm)</b> 7120
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<b>Water Color</b> <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained	<b>Estimated Stream Velocity (m/s)</b> <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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<b>Measured Velocity</b> 1.6	circle units m/s or <u>f/s</u>	<b>Average Stream Depth of reach (m)</b> 0.3	<b>Average Stream Width of reach (m)</b> 6
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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 (%)** 10      **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	Watershed	Factors that may be influencing Water Resource Integrity	Local	Watershed
<b>Biological</b>			<b>Chemical</b>		
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:			<b>Sources of Stream Impacts</b>		
			Bank Erosion		
			Point Source - Specify:		
<b>Physical</b>			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 <i>Alison Kuhne</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>75%</i>
Date Processed <i>11-28-16</i>	Specimens Saved <i>Subsample archived in ABL until Nov 2020</i>	

*D2 → 14    B2 → 7    C3 → 1  
 B3 → 22    A3 → 6    A1 → 12  
 A2 → 6    D1 → 12    C2 → 8  
 E1 → 12    C1 → 17    B1 →*

*(125)*

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Allocapnia	L	II	2	Mitchcock 1974		1995
Paracapnia angulata	L	II	2	Mitchcock 1974		
Chironomidae	L	I	1	Stew. Stark 2008	imm	
Isogenoides frontalis	L	-II	7	Hils. Bill. 1973		
Isoperla	L	I	1	Hilsenhoff 1995	dam	
Pteronarcys dorsata	L	II	2	Hard. Mick. 1952		
Baetis tricaudatus	L	XIII	13	Hilbertanz 2016		
EphemereIIDae	L	I	1	"	imm	Y
Ephemera subvaria	L	II	2	"		
Heptagenia pulla	L	II	2	"		
Rhythrogena	L	XIII	33	"		
Rh. jejuna	L	-	5	"		
Glossosoma intermedium	L	-	5	Wyman-Morse 2000		
Ceratopsyche glossonae	L	II	2	Schm. Hils. 1986		
Optioservus	L	II	2	Hils. Schm. 1992	imm	N
O. fastidius	L	I	1	"		
O. trivittatus	L	I	1	"		
Atherix variegata	L	II	2	Hilsenhoff 1995		
Bezzia/Palpomylia	L	I	1	"		
Neoplasta	L	II	2	Court. Merr. 2008		
Simulium tuberosum species group	L	X-III	19	Adler et al 2004		
Anatopa	L	IIII	4	Hilsenhoff 1995		
Dicranota	L	I	1	"		
Hexatoma	L	I	2			
Echytraeidae	A	IIII	4	Brin. Geld. 1991		
Tubificinae w/ capilliform chaetae	A	I	1	Klemm 1985		
<del>Split 43 Chironomidae</del>	L	III	3			
Eukiefferella	P	I	1	Ferr. et al 2008		N
Thienemanniella	P	I	1	"		
Orthocladius (Euaorthocladius)	P	III	3	"		N
Brillia flavifrons	L	L	1	Epler 2001		
Eukiefferella graciei group	L	II	2	Arden + 3 2013		
Loxocladius	L	L	1	"		
Parametriocnemus	L	II	2	"		
Phaenocarpa	L	I	1	"		
Nelusetta	L	III	3	"		

