

Instructions: Bold fields must be completed.

**Station Summary**

<b>Waterbody Name</b> PRE-EMPTION CREEK		<b>Waterbody ID Code</b> 2895200	<b>Sample ID (YYYYMMDD-CY-FD)</b> 20201007-04-05
<b>Sampling Location</b> Upstream Camp 8 Road			<b>Database Key</b> 265720208
<b>SWIMS Station ID</b> 10013195	<b>SWIMS Station Name</b> PRE-EMPTION CREEK-40 METERS UPSTREAM OF CAMP 8 ROAD- STATION #1		
<b>Latitude</b> 46.32807	<b>Longitude</b> -91.08741	<b>Lat/Long Determination Method (circle)</b> SWIMS SWDV <u>GPS</u>	<b>Datum Used if using GPS</b> <u>WGS84</u> or NAD83
<b>Basin (WMU)</b> LAKE SUPERIOR		<b>Watershed Name</b> WHITE RIVER	<b>County</b> BAYFIELD

**Sample and Site Descriptors**

<b>Sample Collector (Last Name, First)</b> JOSEPH CUNNINGHAM	<b>Project Name</b> 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

<b>Total Sampling Time (min)</b> 1 min	<b>Estimated Area Sampled (m<sup>2</sup>)</b> 1 m <sup>2</sup>	<b>Number of Samples in Composite</b> 3 - 20 second Kicks	<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> 10.7	<b>D.O. (mg/l)</b> 10.3	<b>D.O. (% sat.)</b> 93%	<b>pH (su)</b> 7.3	<b>Conductivity (umhos/cm)</b> 172	<b>Transparency (cm)</b> >120
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<b>Water Color</b> <input type="checkbox"/> Clear <input type="checkbox"/> Turbid <input checked="" type="checkbox"/> Stained	<b>Estimated Stream Velocity (m/s)</b> <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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<b>Measured Velocity</b> circle units m/s or f/s	<b>Average Stream Depth of reach (m)</b> 0.2	<b>Average Stream Width of reach (m)</b> 2.5
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**Composition of Substrate Sampled (Percent):**

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): \_\_\_\_\_ Rubble (tennisball to basketball): 30 Gravel (ladybug to tennisball): 30  
 Sand: 10 Clay: \_\_\_\_\_ Silt/Muck: \_\_\_\_\_ Overhanging Vegetation: \_\_\_\_\_  
 Aquatic Macrophytes: \_\_\_\_\_ Leaf Snags: 20 Coarse Woody Debris: \_\_\_\_\_ Other (Detritus): 10

**Embeddedness of Substrate at Sample Site (%)** 10      **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	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		N	U	- Organic (PCBs, pesticides...)			
Slimes				Other - Specify:			
Other - Specify:				<b>Sources of Stream Impacts</b>			
				Bank Erosion		PL	U
				Point Source - Specify:			
				Pasturing of Livestock			
<b>Physical</b>				Runoff: - Barnyard			
Bank Erosion		PL	U	- Construction			
Channelization: - Upstream				- Cropland			
- Downstream				- Urban			
Hydraulic Scour / Channel Incision				Septic Systems			
Impoundment: - Upstream				Tile Drainage - Organic Soils			
- Downstream				- Mineral Soils			
Low Flow				Springs		U	
Sedimentation				Tributary(s)		U	
Sludge				Wetland		U	
Thermal				Other - Specify:			
Turbidity							
Other - Specify:							

Comments *Logging in the area.*

Special Instructions for Laboratory

**For Lab Use Only**

Sample Sorter <i>Elmer, Brenden</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>3.12%</i>
Date Processed <i>2-3-2022</i>	Specimens Saved <i>125 subsample archived in ABC until Mar 2025</i>	

*2.1 hrs.*

*Q1-57 Q2-68*  
*Q2 Q3 Q4*

