

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name <u>Marengo River</u>		Waterbody ID Code <u>2911900</u>	Sample ID (YYYYMMDD-CY-FD) <u>20211018-04-02</u>
Sampling Location <u>Marengo River US Marengo Lake Rd</u>			Database Key <u>285806772</u>
SWIMS Station ID <u>10055122</u>	SWIMS Station Name <u>MARENGO RIVER US MARENGO LAKE ROAD</u>		
Latitude <u>46.31958</u>	Longitude <u>-91.00205</u>	Lat/Long Determination Method (circle) <u>SWIMS</u> <u>SWDV</u> <u>GPS</u>	Datum Used if using GPS <u>WGS84</u> or <u>NAD83</u>
Basin (WMU) <u>LAKE SUPERIOR</u>		Watershed Name <u>MARENGO RIVER</u>	County <u>BAYFIELD</u>

Sample and Site Descriptors

Sample Collector (Last Name, First) <u>MARIA LEFEVRE</u>	Project Name <u>UPPER MARENGO WATERSHED TWA</u>
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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

Total Sampling Time (min) <u>2</u>	Estimated Area Sampled (m ²) <u>2</u>	Number of Samples in Composite <u>6</u>	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: <u>TWA</u>

Water Temp. (C) <u>6.98</u>	D.O. (mg/l) <u>11.83</u>	D.O. (% sat.) <u>97.5</u>	pH (su) <u>7.53</u>	Conductivity (umhos/cm) <u>131</u>	Transparency (cm) <u>>120</u>
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Water Color ☒ Clear ☐ Turbid ☐ Stained	Estimated Stream Velocity (m/s) ☐ Slow (< 0.15 m/s) ☒ Moderate (0.15 m/s - 0.5 m/s) ☐ Fast (> 0.5 m/s)
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Measured Velocity circle units <u>m/s</u> or f/s	Average Stream Depth of reach (m) <u>0.3</u>	Average Stream Width of reach (m) <u>3.5</u> <u>4</u>
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Composition of Substrate Sampled (Percent):

Bedrock: _____	Boulders (basketball or larger): _____	Rubble (tennisball to basketball): <u>20</u>	Gravel (ladybug to tennisball): <u>70</u>
Sand: <u>10</u>	Clay: _____	Silt/Muck: _____	Overhanging Vegetation: _____
Aquatic Macrophytes: _____	Leaf Snags: _____	Coarse Woody Debris: _____	Other (): _____

Embeddedness of Substrate at Sample Site (%) <u>0</u>	Canopy Cover at Sample Site (%) <u>0</u>
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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	PL	PL	Chlorine	~	~	
- Filamentous Algae	~	PL	Dissolved Oxygen	~	↓	
- Planktonic Algae	~	~	Nutrients (P, N...)	~		
Iron Bacteria	~	PL	Toxics: - Inorganic (Metals)	~		
Macrophytes	~	PL	- Organic (PCBs, pesticides...)	~		
Slimes	~	~	Other - Specify:			
Other - Specify:			Sources of Stream Impacts			
			Bank Erosion	PL	PL	
			Point Source - Specify:	~	~	
Physical			Pasturing of Livestock	~	↓	
Bank Erosion	PL	PL	Runoff: - Barnyard	~		
Channelization: - Upstream	~	~	- Construction	~		
- Downstream	~	~	- Cropland	~		
Hydraulic Scour / Channel Incision	PL	PL	- Urban	~		
Impoundment: - Upstream	~	PL	Septic Systems	~		
- Downstream	~	PL	Tile Drainage - Organic Soils	~		
Low Flow	~	~	- Mineral Soils	~		
Sedimentation	~	PL	Springs	~		PL
Sludge	~	~	Tributary(s)	~		PL
Thermal	~	~	Wetland	PL	PL	
Turbidity	~	~	Other - Specify:			
Other - Specify:						

Comments

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter Katherine McClure	Taxonomist Dimock, Jeffrey	Estimated Percent of Sample Sorted 4.7%
Date Processed 6/8/2022	Specimens Saved Subsample archived in OBL until Aug 2025	

A4q4:34 C3q3:79
A4q3:57 C3q4:
A4q1: C3q2:
A4q2: C3q1:

170

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Baetis tricaudatus</i>	L	III	5	Kub 2016		
<i>B. flavistriga</i> species complex	L	I	1	"		
<i>Ephemerella</i>	L	III	9	MCB 2019	imm	N
<i>E. invaria</i>	L	I	1	Kub 2016		
<i>E. subvaria</i>	L	X	10	Kub 2016		
<i>Epeorus vitreus</i>	L	III	4	"		
<i>Leucrocute</i>	L	II	2	MCB 2019		
<i>Rhythrogena</i>	L	I	1	"	imm	N
<i>R. impersonata</i>	L	II	2	Kub 2016		
<i>R. jeffera</i>	L	II	2	"		
<i>Neoleptophlebia</i>	L	III	3	MCB 2019	imm	
<i>Acroneuria</i>	L	II	2	"	imm	
<i>Isoperla</i>	L	II	2	"	imm	N
<i>I. transmarina</i>	L	I	1	Hils 1982		
<i>Glossosoma</i>	L	III	10	MCB 2019	imm	N
<i>G. intermedium</i>	L	III	9	Wyn Mar 2000		
<i>Ceratopsyche</i>	L	III	4	Hils 1995	imm	N
<i>C. morosa morosa form</i>	L	I	1	Schm Hils 1986		
<i>C. glossariae</i>	L	III	8	"		
<i>C. spuma</i>	L	I	1	"		
<i>Cheumatopsyche</i>	L	I	1	MCB 2019		
<i>Lepidostoma</i>	L	III	8	"		
<i>Setodes</i>	L	I	1	"		
<i>Psychomyia flavida</i>	L	I	1	Hils 1995		
<i>Optoservus</i>	L	XII	12	MCB 2019	imm	N
<i>O. trivittatus</i> L 14 A, 8	LA	III	22	Hils Schm 1992		
<i>Atherix variegata</i>	L	I	4	Hils 1995		
<i>Heurochroma</i>	L	I	1	MCB 2019		
<i>Simulium fibroflatum</i>	L	I	1	Adl et al 2004		
<i>Antocha</i>	L	I	1	MCB 2019		
<i>Hexatoma</i>	L	I	5	"		
<i>Phantolabis laustris</i>	L	I	1	Boech Gel 2019		
<i>Naidinae</i>	A	I	1	Kub Ben 1998		
<i>Spilaenchaenidae</i>	L	XII	10			
<i>Lepidostomus</i>	L	I	5	Adl et al 2013		
<i>Thienemannella</i>	L	I	1	"	imm	

Taxonomist: Dimick, Jeffrey

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