

Instructions: Bold fields must be completed.

Station Summary			
Waterbody Name MORGAN CREEK		Waterbody ID Code 2920200	Sample ID (YYYYMMDD-CY-FD) 20210928-04-03
Sampling Location Morgan Cr 275m DS of Ashland Bayfield Rd		Database Key 288762874	
SWIMS Station ID 10022559	SWIMS Station Name MORGAN CREEK - 25 METERS UPSTREAM ASHLAND BAYFIELD RD - STATION #21		
Latitude 49.35215	Longitude -90.92598	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 MARENGO RIVER	County ASHLAND

Sample and Site Descriptors	
Sample Collector (Last Name, First) MARIA LEFEVRE	Project Name UPPER MARENGO WATERSHED TWA

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 <sup>2</sup> ) 0.1	Number of Samples in Composite 6	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: TWA

Water Temp. (C) 13.9	D.O. (mg/l) 9.72	D.O. (% sat.) 94.6	pH (su) 7.39	Conductivity (umhos/cm) 92	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 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 circle units <u>m/s</u> or f/s	Average Stream Depth of reach (m) 0.4	Average Stream Width of reach (m) 1
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Composition of Substrate Sampled (Percent):

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): \_\_\_\_\_ Rubble (tennisball to basketball): 5 Gravel (ladybug to tennisball): 80  
 Sand: 10 Clay: \_\_\_\_\_ Silt/Muck: \_\_\_\_\_ Overhanging Vegetation: \_\_\_\_\_  
 Aquatic Macrophytes: \_\_\_\_\_ Leaf Snags: \_\_\_\_\_ Coarse Woody Debris: 5 Other ( ): \_\_\_\_\_

Embeddedness of Substrate at Sample Site (%) 20 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	Water-shed	Factors that may be influencing Water Resource Integrity		Local	Water-shed
<b>Biological</b>				<b>Chemical</b>			
Algae: - Diatoms / Periphyton		PL	PL	Chlorine		N	N
- Filamentous Algae		N	N	Dissolved Oxygen		N	N
- Planktonic Algae		N	N	Nutrients (P, N...)		N	N
Iron Bacteria		N	PL	Toxics: - Inorganic (Metals)		N	N
Macrophytes		N	N	- Organic (PCBs, pesticides...)		N	N
Slimes		N	N	Other - Specify:			
Other - Specify:				<b>Sources of Stream Impacts</b>			
				Bank Erosion		PL	N
				Point Source - Specify:		N	N
<b>Physical</b>				Pasturing of Livestock			
Bank Erosion		PL	N	Runoff: - Barnyard		N	N
Channelization: - Upstream		N	N	- Construction		N	N
- Downstream		N	N	- Cropland		N	N
Hydraulic Scour / Channel Incision		N	PL	- Urban		N	N
Impoundment: - Upstream		N	PL	Septic Systems		N	N
- Downstream		N	PL	Tile Drainage - Organic Soils		N	N
Low Flow		N	N	- Mineral Soils		N	N
Sedimentation		N	PL	Springs		N	PL
Sludge		N	N	Tributary(s)		N	PL
Thermal		N	N	Wetland		N	PL
Turbidity		N	N	Other - Specify:			
Other - Specify:							

Comments

Special Instructions for Laboratory

**For Lab Use Only**

Sample Sorter Katherine McClure	Taxonomist Dimock, J. Pray	Estimated Percent of Sample Sorted 14.1%
Date Processed 6/6/2022	Specimens Saved Subsample archived in ABC until Aug 2025	

C191:8 A393:20  
 C193:16 A394:20  
 C192:8 A391:9  
 C194:19 A392:16

D292:34

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Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<del>Acet</del> Acropenna	L	-1	6	MCB 2019	com	N
A. macdonoughi	L	-1	6	Klob 2016		
Baetis brunneicolar	L	1	1	"		
B. tricaudatus	L	1	1	"		
B. flavistorgia species complex	L	III	3	"		
Caenis punctata	L	"	2	"		
Eurylophella	L	II	2	MCB 2019	imm	
Epeorus vitreus	L	1	1	Klob 2016		
Mesochoreus vicarium	L	III	4	"		
Leptophlebiidae	L	III	5	MCB 2019	com/imm N	
Leptophlebia	L	II	2	"	imm	
Neoleptophlebia	L	-1	6	"	imm	
Paracania angulata	L	II	2	Hitch 1974		
Isoperla	L	1	1	MCB 2019	imm	
Taeniopteryx	L	1	1	"	imm	
Ceratopsyche slossonae	L	-	5	Schmitt & Ribb		
C. spina	L	III	3	"		
Cheumatopsyche	L	II	2	MCB 2019		
Hydropsyche hettneri	L	XI	11	Schmitt & Ribb		
Limnephilidae	L	XIII	14	MCB 2019	imm	
Psychomyia flavida	L	1	1	Hols 1995		
Zhyacophila	L	III	1	MCB 2019	imm	
Optioservus	L	X	10	"	imm	N
O. fastidius	L	XIII	13	Hassschmidt 1992		
O. trivittatus	A	1	1	"		
Stenelmis crenata	A	1	1	"		
Attenix variegata	L	II	2	Hols 1995		
Stibbezia	L	1	1	"		
Bezzia/Palpomysia	L	1	1	"		
Nemoura pumila	L	II	2	MCB 2019		
Dicranota	L	-III	8	"		
Tipula	L	1	1	"		
Fossaria	A	1	1	Brech 1989		
<del>Spintax</del> Chironomidae	L	X-III	10			
Parametopaenemus	L	-	5	And et al 2013		
Cladotanytarsus	L	III	3	"		

