

Instructions: Bold fields must be completed.

Station Summary		
Waterbody Name MECAN RIVER	Waterbody ID Code 155000	Sample ID (YYYYMMDD-CY-FD) 20171018-39-02
Sampling Location @ Dixie Ave		Database Key 149844410

SWIMS Station ID 10029369	SWIMS Station Name MECAN RIVER AT DIXIE AVE	
Latitude N 43.95197	Longitude W 89.32537	Lat/Long Determination Method (circle) SWIMS SWDV GPS
Basin (WMU) UPPER FOX		Datum Used if using GPS WGS84 or NAD83
Watershed Name MECAN RIVER		County MARQUETTE

Sample and Site Descriptors	
Sample Collector (Last Name, First) DAVID BOLHA	Project Name MACROINVERTEBRATE SPATIAL ANALYSIS

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) 20	Estimated Area Sampled (m ²) 2.0	Number of Samples in Composite 1	Replicate No. <u>1</u> of <u>2</u>
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Reason For Sampling

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

Water Temp. (°C) 10.0 50.0 F	D.O. (mg/l) 8.51	D.O. (% sat.) 75.4	pH (su) 7.69	Conductivity (umhos/cm) 342.3	Transparency (cm)
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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 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 1.35	circle units m/s or f/s	Average Stream Depth of reach (m) 0.8	Average Stream Width of reach (m) 11.0
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): _____ Gravel (ladybug to tennisball): _____

Sand: 50 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____

Aquatic Macrophytes: 25 Leaf Snags: _____ Coarse Woody Debris: 25 Other (): _____

Embeddedness of Substrate at Sample Site (%) _____ Canopy Cover at Sample Site (%) 20

Stream and Watershed Descriptors

N = Not a problem PL = Present, Low Impact
 U = Uncertain 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				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			
				Runoff: - Barnyard			
				- Construction			
				- Cropland			
				- Urban			
				Septic Systems			
				Tile Drainage - Organic Soils			
				- Mineral Soils			
				Springs			
				Tributary(s)			
				Wetland			
				Other - Specify:			
Physical							
Bank Erosion							
Channelization: - Upstream							
- Downstream							
Hydraulic Scour / Channel Incision							
Impoundment: - Upstream							
- Downstream							
Low Flow							
Sedimentation							
Sludge							
Thermal							
Turbidity							
Other - Specify:							

Comments

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter <i>Sam Lamoche</i>	Taxonomist <i>Dimick Jeffrey</i>	Estimated Percent of Sample Sorted <i>130%</i>
Date Processed <i>11/27/18</i>	Specimens Saved <i>Subsample archived in ASL until Feb 2022</i>	

2E 3D
98 161
259 total

Wisconsin Department of Natural Resources

ABL SampleNum: 20171018-39-02

Taxonomist: Dimick, Jeffrey

Waterbody: Mecan River
SWIMS Database Key: 149844410

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
1/25 Taeniopteryx	L	01111	25	Hils 1995	imm	
Baetis brunneicolar	L	111	8	Klub 2016		
Isoperla anoka	L	0-11	27	"		
Baetidae	L	1	1	"	imm	N
Baetis Flavistriga species complex	L	1	1	"		
Caenis	L	1	1	"	imm	
Ephemera	L	1	1	"		
Mecopteryx	L	1	1	"	imm	Y
M. medianotatum	L	1	1	"		
Leptophlebiidae	L	1	1	"	dam	N
Leptophlebia	L	111	3	"	imm	
Calopteryx maculata	L	1	1	West May 1996		
2/19 Brachycentrus numerosus	L	01111	24	Hils 1995		
3/30 B. occidentalis	L	1	1	"		
4/31 B. americanus	L	1	1	"		
5/15 Micrasema rustrum	L	111	4	"		
Hydropsychidae	L	111	3	Hils 1995	imm	N
Cheumatopsyche	L	11	2	"		
Hydropsyche betterii	L	1111	9	Schm Hils 1996		
6/17 H. scalaris	L	11	2	"		
Ceratopsyche branta	L	1	5	"		
9/03 C. glossanae	L	111	4	"		
7/50 C. sparna	L	21111	34	"		
Leucotrichia pictipes	L	1	1	Hils 1995		
Triaenodes melaeus	L	11	2	Over 1996		
Ditricaphia	L	11	2	Hils Schm 1992		
Entresurus fastiditus	L	1	1	"		
Hemerodromia	L	111	3	Cont Mer 2008		
Neoplasta	L	1	1	"		
Ephydriidae	L	1	6	"		
Simulium vittatum species complex 08110218	L	1	1	Adl et al 2004		
Simulium	P	1	1	"		N
Tipula	L	1	1	Hils 1995		
Orthocladus (Orthocladus)	P	11	2	Coff et al 1986		
Cricotopus (Cricotopus)	P	1	1	"		
Gammarus pseudolimnaeus	A	111	4	Hils 1972		
Hyalella azteca	A	2-11	17			

>3 taxa, TVAL ≤ 2.0

03 SA > (0.1 x 296)

