

Instructions: Bold fields must be completed.

Station Summary		
Waterbody Name MECAN RIVER	Waterbody ID Code 155000	Sample ID (YYYYMMDD-CY-FD) 20171017-70-07
Sampling Location		Database Key 149844327

SWIMS Station ID 10020692	SWIMS Station Name MECAN RIVER AT 100 YRDS SOUTH OF W9853 CYPRESS RD WEST OF CTY Y		
Latitude N44.00056	Longitude W89.37906	Lat/Long Determination Method (circle) SWIMS SWDV <u>GPS</u>	Datum Used if using GPS <u>WGS84</u> or NAD83
Basin (WMU) UPPER FOX	Watershed Name MECAN RIVER	County WAUSHARA	

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) 1.0	Estimated Area Sampled (m ²) 0.5	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) ^{12.1°C} 50.7 F	D.O. (mg/l) 9.71	D.O. (% sat.) 86.1	pH (su) 7.99	Conductivity (umhos/cm) 362.4	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 type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input checked="" type="checkbox"/> Fast (> 0.5 m/s)
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Measured Velocity 2.35	circle units m/s or <u>(f/s)</u>	Average Stream Depth of reach (m) 0.37	Average Stream Width of reach (m) 9.0
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): _____ Gravel (ladybug to tennisball): 75
25
 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 (%) 90

#1

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
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			
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>Sam Camarcho</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>7%</i>
Date Processed <i>11/20/18</i>	Specimens Saved <i>Subsample archived in ABL until Feb 2022</i>	

LC
162

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Baetis flavistriga</i> species complex	L	11	2	Klub 2016		
⁴¹ <i>Ephemerella subvaria</i>	L	1	1	"		
⁷³ <i>Tetoganopsis deficiens</i>	L	x11	12	"		
^{3/5} <i>Iteptageniidae</i>	L	1	1	"	dam	N
^{4/6} <i>Maccaffertium modestum</i>	L	11	2	"		
^{5/8} <i>M. vicarium</i>	L	1	1	"		
<i>Protophila</i>	L	11	2	Hils 1995		
<i>Cheumatopsyche</i>	L	x11	18	"		
<i>Hydropsyche</i>	L	11	2	"	dam/imm	
<i>Ceratopsyche stlosserae</i>	L	x11	17	Schm Hils 1986		
^{6/34} <i>C. spama</i>	L	x1	16	"		
^{7/40} <i>Lepidostoma</i>	L	-1	6	Hils 1995		
<i>Dolosemus</i>	L	x11	32	Hils Schm 1992		
<i>D. fastidiosus</i> L.B A.2	L,A	x	10	"		
<i>Nemerochroma</i>	L	11	2	Court Merr 2008		
<i>Simulium vittatum</i> species complex 08110218	L	1	1	Adl et al 2004		
<i>Antocha</i>	L	x1111	14	Hils 1995		
<i>Gammarus pseudolimnaeus</i>	A	111	3	Hols 1972		
<i>Hygrobatas</i>	A	1	1	Pluch 1984		
<i>Lebertia</i>	A	1	1	"		
<i>Dugesidae</i>	A	1	1	Thorp Bog 2016		
<i>Ferissia circularis</i>	A	1	1	"		
Split A3 Chironomidae	L	1-1000				
<i>Tipulidae</i>	L	1	1	Court Merr 2008	dam	N
<i>Chironomidae</i> 08250000	L	1	1	"	not indet	N
<i>Diamesa</i>	L	1	1	Saath Ander 2013		
^{8/42} <i>Pogastera</i>	L	11	2	"		
<i>Orthocladus</i>	L	1	1	Ander + 3 2013		
<i>Cladotanytarsus</i>	L	111	3	Epl et al 2013		
<i>Polypedilum (Uresipedilum) aviceps</i>	L	1	1	Bolton 2012		
<i>Zootanytarsus</i>	L	x	10	Epl et al 2013		
<i>Tanytarsus</i>	L	11	2	"		

> 3 taxa, TVAL ≤ 2.0

42 > (0.1 x 158)