

Instructions: Bold fields must be completed.

Station Summary		
Waterbody Name MECAN RIVER	Waterbody ID Code 155000	Sample ID (YYYYMMDD-CY-FD) 20171017-70-03
Sampling Location DS 9 <sup>th</sup> Ave		Database Key 149844319

SWIMS Station ID 10033877	SWIMS Station Name MECAN RIVER - 9TH AVE (DOWNSTREAM)		
Latitude N44.04528	Longitude W89.44616	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 <sup>2</sup> ) 0.5	Number of Samples in Composite 1	Replicate No. <u>2</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) 49.7	D.O. (mg/l) 9.08	D.O. (% sat.) 79.1	pH (su) 7.75	Conductivity (umhos/cm) 372.5	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 1.24	circle units m/s or (f/s)	Average Stream Depth of reach (m) 0.2	Average Stream Width of reach (m) 7
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Composition of Substrate Sampled (Percent):

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): \_\_\_\_\_ Rubble (tennisball to basketball): 25 Gravel (ladybug to tennisball): 50  
 Sand: 25 Clay: \_\_\_\_\_ Silt/Muck: \_\_\_\_\_ Overhanging Vegetation: \_\_\_\_\_  
 Aquatic Macrophytes: \_\_\_\_\_ Leaf Snags: \_\_\_\_\_ Coarse Woody Debris: \_\_\_\_\_ Other ( ): \_\_\_\_\_

Embeddedness of Substrate at Sample Site (%) 20 Canopy Cover at Sample Site (%) 75

#2 DS culvert 15m

**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			Factors that may be influencing Water Resource Integrity		
Local	Water-shed		Local	Water-shed	
<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			- Organic (PCBs, pesticides...)
		Slimes			Other - Specify:
		Other - Specify:	<b>Sources of Stream Impacts</b>		
					Bank Erosion
					Point Source - Specify:
<b>Physical</b>					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>190</i>
Date Processed <i>11/15/18</i>	Specimens Saved <i>Subsample archived in dBC until Feb 2022</i>	

*3E*  
*182*

	Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
4/3	Taeniopteryx	L	III	3	Hils 1995	imm	
	Baetis flavistriga species complex	L	-	3	Rlob 2016		
	Isoperla anoka	L	II	2	"		
	Ephemerellidae	L	III	3	"	imm	N
	Ephemerella	L	II	2	"	imm	N
3/16	E. invaria	L	III	3	"		
3/32	Telegonopsis deficiens	L	IIII	26	"		
	Mecopterygum	L	-	5	"	imm	N
4/33	M. modestum	L	I	1	"		
	Tricorythodes	L	I	1	"		
5/31	Brachycentrus occidentalis	L	I	1	Hils 1985		42
	Micrasema	L	III	5	"	imm	
6/36	Glossosoma	L	I	1	Hils 1995	imm	N
	G. intermedium	L	I	1	Wym Mos 2000		
7/16	Psectroptera	L	IIII	10	Hils 1995		
	Helicopsyche borealis	L	II	7	"		
	Hydropsychidae	L	I	1	"	imm	N
	Chematosyche	L	II	2	"		
	Hydropsyche bellani	L	XIII	13	Schm Hils 1986		
	Ceratopsyche	L	IIII	9	Hils 1995	imm	N
	C. branta	L	IIII	4	Schm Hils 1986		
8/54	C. sparna	L	XIII	13	"		
9/62	Lepidostoma	L	III	3	Hils 1995		
10/4	Psychomyia flavida	L	II	2	"		
	Neophylax	L	-	5	"	imm	
	Optiservus	L	XII	12	Hils Schm 1992	imm	N
	O. fastiditus	L	III	4	"		
11/65	Atherix variegata	L	I	1	Hils 1995		
	Bezzia/Palpomyia	L	I	1	"		
	Hemerodromia	L	II	7	East Men 2008		
	Simulium tuberosum species complex	L	I	1	Adl et al 2004		
	S. vittatum species complex obiozi18	L	III	3	"		
	Antocha	L	III	3	Hils 1995		
	Dugesiiidae	A	-	5	Thorp Res 2016		
	Sphaerium	A	I	1	Burch 1972		
	Zhectanyparsus	L	X	5	Epl et al 2013		

&gt;3 taxa, TVAL ≤ 2.0

657 (0.1 x 164)

