

Instructions: Bold fields must be completed.

Station Summary			
Waterbody Name MECAN RIVER		Waterbody ID Code 155000	Sample ID (YYYYMMDD-CY-FD) 20161005-70-01
Sampling Location US HWY 21		Database Key 133649591	
SWIMS Station ID 10038885		SWIMS Station Name MECAN RIVER HWY 21 UPSTREAM	
Latitude 44.029625	Longitude -89.443886	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 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 EAST DISTRICT NC STREAM STRATIFIED SITES 2016

Sampling Device

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 ²) 1.5	Number of Samples in Composite 1	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: _____

Water Temp. (°C) 55.3	D.O. (mg/l) 8.23	D.O. (%sat.) 78.5	pH (su) 7.75	Conductivity (umhos/cm) 377.8	Transparency (cm) 120
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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)

Measured Velocity circle units m/s or f/s	Average Stream Depth of reach (m) 0.35	Average Stream Width of reach (m) 4.5
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): 10 Rubble (tennisball to basketball): 5 Gravel (ladybug to tennisball): 70
 Sand: 15 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 (%) 60

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

Comments

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter Kuhne, Alison	Taxonomist Dimick, Jeffrey	Estimated Percent of Sample Sorted 71%
Date Processed 4-25-17	Specimens Saved Subsample archived in BCL until Oct 2020	

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	Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
1/3	<i>Paragnetina medra</i>	L	III	3	Hilsenhoff 1995		
	<i>Baetis flavistriga</i> species complex	L	III	3	Kubertanz 2016		
	<i>Isaiaea anoka</i>	L	IIII	9	"		
	<i>Ephemerella</i>	L	0-III	30	"	imm	N
2/8	<i>E. invaria</i>	L	I	5	"		
3/19	<i>Tolocanopsis deficiens</i>	L	88x	111	"		
	<i>Mesochorema</i>	L	I	5	"	imm	N
4/20	<i>M. modestum</i>	L	I	1	"		
5/22	<i>M. vicarium</i>	L	II	2	"		
4/25	<i>Isonychia</i>	L	III	3	"		
	<i>Calopteryx maculata</i>	L	I	1	West, May 1996		
	Gomphidae	L	II	2	Need, et al 2000	imm	
7/26	<i>Brachycentrus americanus</i>	L	I	1	Hilsenhoff 1985		
	<i>Micrasema</i>	L	III	3	"	imm	N
8/27	<i>M. rusticum</i>	L	I	1	"		
9/13	<i>Glossosoma</i>	L	III	3	Hilsenhoff 1995		
	<i>G. intermedium</i>	L	I	1	Wymers, Morse 2000		
10/32	<i>Protophila</i>	L	I	1	Hilsenhoff 1995		
	<i>Helocopsyche borealis</i>	L	IIII	4	"		
	<i>Chaumatopsyche</i>	L	III	3	"		
	<i>Ceratopsyche</i>	L	I	1	"	imm	N
	<i>C. brenta</i>	L	I	1	Schm, Hils. 1986		
	<i>C. glossonae</i>	L	0II	22	"		
11/14	<i>C. sparna</i>	L	XI	16	"		
12/18	<i>Lepidostoma</i>	L	8IIII	34	Hilsenhoff 1995		
	<i>Chimarra aterrima</i>	L	-	5	Hilsenhoff 1982		
13/14	<i>Nigronia serricornis</i>	L	"	2	Neunzig 1966		
	<i>Optreservus</i>	L	0II	22	Hils, Schm. 1992	imm	N
	<i>O. fastidius</i> L, 13 A, 1	LA	XIIII	14	"		
	<i>Ectopria leechi/Aerovsa</i>	L	I	1	"		
	<i>Hemerodromia</i>	L	I	1	Cont, Mem. 2006		
	<i>Simulium venustum</i> species complex	L	I	1	Adler et al 2004		
	<i>S. vittatum</i> species complex OBLOZIB	L	I	1	"		
	<i>Anatcha</i>	L	I	1	Hilsenhoff 1995		
	<i>Hygrobatas</i>	A	II	2	Pluchino 1984		
	<i>Tricladida</i>	A	I	1	Kolasa 1991		
	<i>Megadrili = Metagynophora</i>	A	I	1	Brim, Geld. 1991		

> 3 taxa, TVAL ≤ 2.0
 184 > (0.1 x 272)

