

Instructions: **Bold** fields must be completed.

Station Summary

Waterbody Name MULLET RIVER		Waterbody ID Code 53400	Sample ID (YYYYMMDD-CY-FD) 20181009-60-03
Sampling Location R: 111e SOS			Database Key 168904975
SWIMS Station ID 10008194	SWIMS Station Name MULLET RIVER - MULLET RIVER UPSTREAM OF CTHY CJ		
Latitude 43.7923	Longitude -88.0099	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
Basin (WMU) SHEBOYGAN		Watershed Name MULLET RIVER	County SHEBOYGAN

Sample and Site Descriptors

Sample Collector (Last Name, First) CRAIG HELKER	Project Name SER LONG-TERM TREND WADEABLE REFERENCE STREAM
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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 (m²) 2	Number of Samples in Composite	Replicate No. _____ of _____
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Reason For Sampling

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

Water Temp. (C) 16.49	D.O. (mg/l) 9.19	D.O. (% sat.) 95.7	pH (su)	Conductivity (umhos/cm) 579.3	Transparency (cm) 4120
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Water Color <input type="checkbox"/> Clear <input type="checkbox"/> Turbid <input checked="" 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 3.8	circle units m/s or (f/s)	Average Stream Depth of reach (m) 0.7	Average Stream Width of reach (m) 9m
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 60 Gravel (ladybug to tennisball): 30
 Sand: 10 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (): _____

Embeddedness of Substrate at Sample Site (%) 30 **Canopy Cover at Sample Site (%)** 90

pulled TL-est # 9891950 on 11/01/2018

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	
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:
Physical					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

Sample poorly preserved *SD*

Special Instructions for Laboratory

3D = 56

2A = 72

Total = 128

For Lab Use Only

Sample Sorter Murphy Steinhilber	Taxonomist Dimick Jeffrey	Estimated Percent of Sample Sorted 13%
Date Processed 10/20/2019	Specimens Saved Subsample archived in AB L until Jan 2023	

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Paragnetina media</i>	L	-1	6	Hils 1995		
<i>Baetis brunneipalpis</i>	L	1	1	Kub Zelle		
<i>Tetoganopsis deficiens</i>	L		4	"		
Heptageniidae	L	-	9	"	dam	N
<i>Maccaffertium</i>	L	0-1	26	"	dam/mm	N
<i>M. mediopunctatum</i>	L	"	2	"		
<i>M. modestum</i>	L	x	14	"		
<i>Glossosoma intermedium</i>	L	1	1	Wym Mar 2000		
<i>Protophila</i>	L	"	2	Hils 1995		
<i>Helicopsyche borealis</i>	L		4	Hils 1995		
<i>Ceratopsyche glossonae</i>	L	-	3	Schim Hils 1986		
<i>Hydropsyche betteni</i>	L	1	1	"		
<i>Chimarra alternata</i>	L	"	2	Hils 1982		
Trichoptera 04000200	P	1	1	Cran Daly 2008	dam	N
<i>Nicozia serricornis</i>	L	1	1	Meunzig 1966		
<i>Oligoneurus</i>	L		4	Hils Schim 1992	imm	N
<i>O. fastiditus</i>	L	-	10	"		
<i>Stenelmis</i>	L	-	8	"		N
<i>S. crenata</i>	A		3	"		
<i>Psephenus herricki</i>	L		4	"		
<i>Atherix variegata</i>	L		4	Hils 1995		
<i>Idemerdromia</i>	L	"	2	Cran May 2008		
<i>Dicranota</i>	L	1	1	Hils 1995		
<i>odontomyia</i>	L	1	1	"		
<i>Parametriocnemus</i>	P		3	Ferretal 2008		
<i>Thienemanniella</i>	P	1	1	"		
Naidinae	A	1	1	Brin Geld 1991		
<i>Sphaerium</i>	A		4	Mackie 2007		
Split A3 Chironomidae	L					
<i>Pentaneura inconspicua</i>	L	1	1	Epler 2001		
Orthocladinae 08300000	L	1	1	Cranston 2013	imm	N
<i>Eukiefferella devonica</i> group	L	1	1	And + 3 2013		
<i>Parametriocnemus</i>	L	-	5	"		N
Chironominae 08330000	L	1	1	Cranston 2013	mt undet	N
<i>Microtendipes pedellus</i> group	L	"	2	Epl et al 2013		
<i>Polypedilum (Uresipodilum) aviceps</i>	L	1	1	Bolton 2012		
<i>P-(U.) flavum</i>	L		3	"		

Many empty mollusk shells - Anacardiidae, Hydrobiidae, Lymnaeidae, Valvatidae, Pisidiidae