

MLR-03

State of Wisconsin
Department of Natural Resources
PO Box 7291, Madison WI 53707-7291
dnr.wi.gov

**Wadeable Macroinvertebrate
Field Data Report**
Form 3200-081 (R 8/14) Page 1 of 2

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name MILWAUKEE RIVER	Waterbody ID Code 15000	Sample ID (YYYYMMDD-CY-FD) 20201007-46-03
Sampling Location Riffle @ canoe launch		Database Key 251835605

SWIMS Station ID 10012501	SWIMS Station Name MILWAUKEE RIVER GRAFTON - SOUTH END OF LIME KILN PARK		
Latitude 43.30277	Longitude -87.95692	Lat/Long Determination Method (circle) SWIMS <u>SWDV</u> GPS	Datum Used if using GPS WGS84 or NAD83
Basin (WMU) MILWAUKEE RIVER		Watershed Name MILWAUKEE RIVER SOUTH	County OZAUKEE

Sample and Site Descriptors

Sample Collector (Last Name, First) CRAIG HELKER	Project Name MILWAUKEE RIVER BASIN AQUATIC MACROINVERTEBRATE
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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) 1	Estimated Area Sampled (m²) 1	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: <u>Milwaukee River Study</u>

Water Temp. (C) 15.14	D.O. (mg/l) 12.23	D.O. (% sat.) 120.6	pH (su) 7.62	Conductivity (umhos/cm) 1333	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)
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Measured Velocity circle units m/s or f/s	Average Stream Depth of reach (m) -8	Average Stream Width of reach (m) 18
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Composition of Substrate Sampled (Percent):

Bedrock: _____	Boulders (basketball or larger): _____	Rubble (tennisball to basketball): <u>70</u>	Gravel (ladybug to tennisball): <u>20</u>
Sand: <u>10</u>	Clay: _____	Silt/Muck: _____	Overhanging Vegetation: _____
Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (): _____			

Embeddedness of Substrate at Sample Site (%) <u>10</u>	Canopy Cover at Sample Site (%) <u>10</u>
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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:		
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

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter	<i>Coash, Natalie</i>	Taxonomist	<i>Dimick, Jeffery</i>	Estimated Percent of Sample Sorted	<i>13.3</i>
Date Processed	<i>12/11/2020</i>	Specimens Saved	<i>Subsample archived in ABL until Feb 2024</i>		

E2-1:19

Rest of E2 - 85

B2-2:26

Rest of B2 - 46

176

Wisconsin Department of Natural Resources

ABL SampleNum: 20201007-46-03

Taxonomist: Dimick, Jeffrey

 Waterbody: Milwaukee River
 SWIMS Database Key: 251835605

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Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Baetis intercalaris</i>	L	III	3	Kub 2016		
<i>B. flavistriga</i> species complex	L	I	6	"		
<i>Isaiaea anoka</i>	L	I	1	"		
<i>Placiditus dubius</i>	L	II	2	"		
<i>Neptageniidae</i>	L	I	1	Merritt 2019	imm	N
<i>Leucocysta</i>	L	II	2	"		
<i>Maccaffertium</i>	L	or	25	Kub 2016	imm	N
<i>M. medipunctatum</i>	L	III	8	"		
<i>M. terminatum</i>	L	I	1	"		
<i>Stenacron</i>	L	I	1	Merritt 2019	imm	
<i>Tricorythodes</i>	L	I	6	"		
<i>Taeniopteryx</i>	L	I	6	"	imm	
<i>Protophila</i>	L	II	7	"		
<i>Hydropsychidae</i>	L	II	2	"	imm	N
<i>Ceratopsycha</i>	L	I	1	Hils 1995	imm	N
<i>C. brenta</i>	L	III	3	Schmitt 1986		
<i>C. morosa bifida</i> form	L	xi	11	"		
<i>Cheumatopsyche</i>	L	8-III	38	Merritt 2019		
<i>Hydropsyche</i>	L	I	1	Hils 1995	imm	Y
<i>H. betteni</i>	L	I	1	Schmitt 1986		
<i>H. cwanis</i>	L	I	5	"		
<i>Leucotrichia pictipes</i>	L	I	6	Hils 1995		
<i>Philopotamidae</i>	L	I	1	Merritt 2019	imm	N
<i>Chimarra obscura</i>	L	III	8	Hils 1982		
<i>Petropheila</i>	L	I	1	Merritt 2019		
<i>Stenelmis</i>	L	IIII	4	"		N
<i>S. musgravei</i>	A	I	1	Hils 1992		
<i>Psephenus herricki</i>	L	I	1	"		
<i>Thienemannella</i>	P	II	2	Merritt 2019		
<i>Hemerodromia</i>	L	I	1	"		
<i>Dugesiiidae</i>	A	II	2	Thorp 2016		
<i>Split 2 Chironomidae</i>	L	JD				
<i>Tretania discoloripes</i> group	L	III	4	Bode 1983		
<i>Microtendipes pedellus</i> group	L	I	1	And et al 2013		
<i>Tanyptera</i> 08270000	L	I	1	"	imm	
<i>Cardiocladius obscurus</i>	L	I	1	Epler 2001		
<i>Eukretterivella</i>	L	I	1	And et al 2013	dam	

Taxonomist: Dimick, Jeffrey

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