

MLR-12

Instructions: Bold fields must be completed.

**Station Summary**

<b>Waterbody Name</b> MILWAUKEE RIVER	<b>Waterbody ID Code</b> 15000	<b>Sample ID (YYYYMMDD-CY-FD)</b> 20201013-46-03
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<b>Sampling Location</b> Adjacent Riverside Road	<b>Database Key</b> 249875122
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<b>SWIMS Station ID</b> 10008857	<b>SWIMS Station Name</b> MILWAUKEE RIVER STATION #1 DOWN FROM CTH A ALONG RIVER ROAD
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<b>Latitude</b> 43.4704	<b>Longitude</b> -88.0408	<b>Lat/Long Determination Method (circle)</b> SWIMS <u>SWDY</u> GPS	<b>Datum Used if using GPS</b> WGS84 or NAD83
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<b>Basin (WMU)</b> MILWAUKEE RIVER	<b>Watershed Name</b> EAST AND WEST BRANCHES MILWAUKEE R	<b>County</b> OZAUKEE
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**Sample and Site Descriptors**

<b>Sample Collector (Last Name, First)</b> CRAIG HELKER	<b>Project Name</b> MILWAUKEE RIVER BASIN AQUATIC MACROINVERTEBRA
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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

<b>Total Sampling Time (min)</b> 2	<b>Estimated Area Sampled (m<sup>2</sup>)</b> 2	<b>Number of Samples in Composite</b>	<b>Replicate No. _____ of _____</b>
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**Reason For Sampling**

Least Impacted Reference     
  Baseline     
  Impact / Treatment Site  
 Control Site     
  Trend     
 Other: Milwaukee River Supply

<b>Water Temp. (C)</b> 12.94	<b>D.O. (mg/l)</b> 13.32	<b>D.O. (% sat.)</b> 126.2	<b>pH (su)</b>	<b>Conductivity (umhos/cm)</b> 1195	<b>Transparency (cm)</b> 4120
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<b>Water Color</b> <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained	<b>Estimated Stream Velocity (m/s)</b> <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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<b>Measured Velocity</b> circle units m/s or f/s	<b>Average Stream Depth of reach (m)</b> .8	<b>Average Stream Width of reach (m)</b> 30 50
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**Composition of Substrate Sampled (Percent):**

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): \_\_\_\_\_ Rubble (tennisball to basketball): 30 Gravel (ladybug to tennisball): 50  
 Sand: 20 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 (%)** 80

Note: main channel predom sand. Septid margins 50%, channel 50%

**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
<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:			
				Pasturing of Livestock			
<b>Physical</b>				Runoff: - Barnyard			
Bank Erosion				- Construction			
Channelization: - Upstream				- Cropland			
- Downstream				- Urban			
Hydraulic Scour / Channel Incision				Septic Systems			
Impoundment: - Upstream				Tile Drainage - Organic Soils			
- Downstream				- Mineral Soils			
Low Flow				Springs			
Sedimentation				Tributary(s)			
Sludge				Wetland			
Thermal				Other - Specify:			
Turbidity							
Other - Specify:							

Comments

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter	<i>Boatz, Trevor</i>	Estimated Percent of Sample Sorted
Date Processed	<i>1/21/2021</i>	<i>81.6</i>
Taxonomist	<i>Dimick, Jeffrey</i>	Specimens Saved
	<i>Subsample 131 archived in ABC until Feb 2024</i>	

*B2 Q2: 11      B2 Q4: 14: 69      C1 Q2: 10: (131)*  
*D2 Q2: 6: 17      D2 Q1: 11: 80*  
*B2 Q1: 4: 21      A1 Q2: 14: 94*  
*D2 Q4: 21: 42      A1 Q3: 14: 108*  
*B2 Q3: 3: 45      A1 Q1: 6: 114*  
*D2 Q3: 10: 55      A1 Q4: 7: 121*

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Acentrella parvula</i>	L	i	1	Klub 2016		
<i>Acerperina pygmaea</i>	L	i	1	"		
<i>Isaiaea arctica</i>	L	-	5	"		
<i>Caenis</i>	L	i	1	Merrillum B 2019	dam	N
<i>C. anceps</i>	L	i	1	Klub 2016		
<i>Leucocata</i>	L	iii	3	Merrillum B 2019		
<i>Maccaffertium mediopunctatum</i>	L	-iii	9	Klub 2016		
<i>M. terminatum</i>	L	i	1	"		
<i>Stenacron</i>	L	iii	3	Merrillum B 2019	imm	
<i>Tricomphodes</i>	L	-iiii	9	"		
<i>Anthopotamus myops</i>	L	-	5	Klub 2016		
<i>Argia moesta</i>	L	i	1	west May 2016		
<i>Protophila</i>	L	iii	4	Merrillum B 2019		
<i>Helicopsyche borealis</i>	L	-	5	Hils 1995		
<i>Cheumatopsyche</i>	L	i	1	Merrillum B 2019		
<i>Hydropsyche</i>	L	i	1	Hils 1995	dam	
<i>Taeniopteryx</i>	L	xiii	13	Merrillum B 2019		
<i>Stenelmis</i>	L	ii	2	"		N
<i>S. crenata</i>	A	ii	2	Hiltschum 1992		
<i>Psephenus herricki</i>	L	iiii	4	"		
<i>Prohezza</i>	L	i	1	Hils 1995		
<i>Orthocladus (Orthocladus)</i>	P	ii	2	Wieder 1986		
<i>Thremmanniella</i>	P	i	1	Merrillum B 2019		
<i>Idemodromia</i>	L	ii	2	"		
<i>Chrysops</i>	L	i	1	"		
<i>Gammarus pseudocolumbaeus</i>	A	iiii	24	Hils 1972		
<i>Hyalella azteca</i>	A	i	1	Spore et al 2015		
<i>Pisidium</i>	A	i	1	Thorp Bog 2016		
<i>Sphaerium</i>	A	ii	2	"	imm	
<i>Caecidotea intermedia</i>	A	i	1	Will 1972		
<i>Helobdella eriensis</i>	A	iii	3	Sugan et al 2018		
<i>Naidinae</i>	A	i	1	Kath Bon 1986		
<del><i>Sphaerium chironomidae</i></del>	<del>L</del>	<del>iiii</del>	<del>4</del>			
<i>Orthocladinae 0830000</i>	L	i	1	And et al 2013	not used	N
<i>Eukiefferiella clarensis group</i>	L	i	1	"		
<i>Orthocladus (Orthocladus)</i>	L	-i	6	"		N
<i>Parakiefferiella</i>	L	ii	2	"		

