

MLR-02

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> 20200925-46-02
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<b>Sampling Location</b> DS and adjacent to Saukville WTP outfall	<b>Database Key</b> 251835601
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<b>SWIMS Station ID</b> 10034833	<b>SWIMS Station Name</b> MILWAUKEE RIVER DS SAUKVILLE WASTEWATER PLANT DISCHARGE
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<b>Latitude</b> 43.37454	<b>Longitude</b> -87.94276	<b>Lat/Long Determination Method (circle)</b> SWIMS SWDV <u>GPS</u>	<b>Datum Used if using GPS</b> <u>WGS84</u> or NAD83
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<b>Basin (WMU)</b> MILWAUKEE RIVER	<b>Watershed Name</b> MILWAUKEE RIVER SOUTH	<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 MACROINVERTEBRATA
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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> 2	<b>Replicate No.</b> _____ <b>of</b> _____
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**Reason For Sampling**

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

<b>Water Temp. (C)</b>	<b>D.O. (mg/l)</b>	<b>D.O. (% sat.)</b>	<b>pH (su)</b>	<b>Conductivity (umhos/cm)</b>	<b>Transparency (cm)</b> 120
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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> 0.65	circle units m/s or <u>f/s</u>	<b>Average Stream Depth of reach (m)</b> 1.1	<b>Average Stream Width of reach (m)</b> 25
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**Composition of Substrate Sampled (Percent):**

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): 20 Rubble (tennisball to basketball): 40 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 (%)** 70    **Canopy Cover at Sample Site (%)** 70

**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:			
<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>Coash, Natalie</i>	Taxonomist <i>Dimock, Jeffrey</i>	Estimated Percent of Sample Sorted <i>18%</i>
Date Processed <i>10/5/2020</i>	Specimens Saved <i>Subsample archived in ABL until Feb 2024</i>	

*E3-4: 46  
 A3-4: 14  
 D1-2: 14  
 D3-32*

*B1-46*

*152*

*1.6 x 3 = 4.8  
 6.6 x 2 = 13.2*

*\* SOP procedure has been corrected 12/7*

Wisconsin Department of Natural Resources

ABL SampleNum: 20200925-46-02

Taxonomist: Dimick, Jeffrey

Waterbody: Milwaukee River  
SWIMS Database Key: 251835601

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Ephemeroptera	L	1	1	Merrittum B 2019	imm	N
Isonychia arctica	L	1	6	Klub 2016		
Paracloeodes minutus	L	1	1	"		
Caenis anceps	L	III	3	"		
Heptageniidae	L	1	1	Merrittum B 2019	dam	N
Leucocuta	L	1	1	Klub 2016		
Maccaffertium	L	X	10	"	imm	Y
M. mediopunctatum	L	II	2	"		
Zenaeon	L	II	2	Merrittum B 2019	imm	
Tricorythodes	L	II	7	"		
Anthopotamus myops	L	8x1	51	Klub 2016		
Argia	L	II	2	Merrittum B 2019	dam	N
A. moesta	L	1	1	West May 2006		
Corixidae	A	III	8	Merrittum B 2019	imm	N
Sigara lineata	A	1	5	Hils 1984a		
Helopsycha borealis	L	II	2	Hils 1985		
Chaumatopsyche	L	1	1	Merrittum B 2019		
Oecetis	L	1	1	"	imm	
Protophila	L	XIII	13	"		
Petropbila	L	1	1	"		
Oubirapha	L	1	1	"		
Stenelmis	L	XII	12	"		N
S. musgravei	A	III	3	Hils Schm 1992		
Hemerodromia	L	1	1	Merrittum B 2019		
Paracladopelma	P	1	1	"		
Gammarus	A	1	1	Thorp Pgs 2016	imm	
Orthocladius 08300001	P	1	1	Merrittum B 2019	dam	N
<del>Split A2 Chironomidae</del>	L	(IIIIIIIIII)				
Corynoneura	L	1	1	And et al 2013		
Eladantanytarsus	L	(IIIIIIIIII)	9	"		
Rheotanytarsus	L	1	1	"		
Microtendipes pedellus group	L	1	1	"		
Paracladopelma	L	1	1	"		N