

EBM-02

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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**

<b>Waterbody Name</b> EAST BRANCH MILWAUKEE RIVER	<b>Waterbody ID Code</b> 36900	<b>Sample ID (YYYYMMDD-CY;FD)</b> 20201008-20-31
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<b>Sampling Location</b> US Snowmobile trail	<b>Database Key</b> 249875074
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<b>SWIMS Station ID</b> 10012158	<b>SWIMS Station Name</b> E. BR MILWAUKEE - E. BR MILWAUKEE 3
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<b>Latitude</b> 43.6338	<b>Longitude</b> -88.1712	<b>Lat/Long Determination Method (circle)</b> SWIMS <u>SWDV</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> FOND DU LAC
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**Sample and Site Descriptors**

<b>Sample Collector (Last Name, First)</b> <del>CRIG HELKER</del> Schmitz, Amanda	<b>Project Name</b> MILWAUKEE RIVER BASIN AQUATIC MACROINVERTEBRAT
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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> 3	<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: \_\_\_\_\_

<b>Water Temp. (C)</b> 10.14	<b>D.O. (mg/l)</b> 10.14	<b>D.O. (% sat.)</b> 90.2	<b>pH (su)</b> 7.00	<b>Conductivity (umhos/cm)</b> 621.1	<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 checked="" type="checkbox"/> Slow (< 0.15 m/s) <input 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> 7	<b>Average Stream Width of reach (m)</b> 10
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**Composition of Substrate Sampled (Percent):**

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

**Embeddedness of Substrate at Sample Site (%)** 80     
 **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	Watershed	Factors that may be influencing Water Resource Integrity	Local	Watershed
<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		
<b>Physical</b>			Point Source - Specify:		
Bank Erosion			Pasturing of Livestock		
Channelization: - Upstream			Runoff: - Barnyard		
- Downstream			- Construction		
Hydraulic Scour / Channel Incision			- Cropland		
Impoundment: - Upstream			- Urban		
- Downstream			Septic Systems		
Low Flow			Tile Drainage - Organic Soils		
Sedimentation			- Mineral Soils		
Sludge			Springs		
Thermal			Tributary(s)		
Turbidity			Wetland		
Other - Specify:			Other - Specify:		

Comments

Special Instructions for Laboratory

**For Lab Use Only**

Sample Sorter: <b>RAV</b>	Taxonomist: <b>Dimick, Jeffray</b>	Estimated Percent of Sample Sorted: <b>41.0%</b>
Date Processed: <b>01/07/2021</b>	Specimens Saved: <b>Subsample archived in DEC mtr 1 Feb 2024</b>	

$93^{90}$  B1 D2 E1 C3  
 19 38 25 16 30  
 90 specimens B1<sup>Q1</sup> A3<sup>Q4</sup> B1<sup>Q4</sup> A3<sup>Q3</sup> B1<sup>Q2</sup> A3<sup>Q1</sup>  
 $\frac{20}{60} = 33.3\%$  4 9 6 3 5 5  
 $0.67 \times \frac{7}{60} = \frac{0.67}{0.41} \times 6$  B1<sup>Q3</sup> = 38 specs. = 128 specs



Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Baetis banneseolor</i>	L	-1	6	Kleb 2016		
<i>Nemoura trispinosa</i> = <i>N. acetrca</i>	L	-1	6	Hils 1985		
<i>Belostoma fummivum</i>	A	1	1	Hils 1984a		
Limnephilidae	L	1	1	Merrittum B 2019	imm	N
<i>Limnephilus</i>	L	III	3	"		
<i>Optiosepus</i>	L	1	1	"	imm	
<i>Corynoneura</i>	P	1	1	"		
<i>Dixa</i>	L	1	1	"		
<i>Simulium venustum</i> species complex	L	1	1	Adl et al 2004		
<i>Oxycera</i>	L	1	1	Merrittum B 2019		
<i>Dixa</i>	L	1	1	"		
<i>Gammarus pseudolimnacus</i>	A	8 IIII II	56	Hols 1972		
Caecidotea	A	-III	8	Thorp Reg 2016	fer/imm	
Trembidiformes	A	1	1	"	imm	N
<i>Hygrobaetes</i>	A	II	2	Reck et al 1990		
<i>Pisidium</i>	A	IIII	4	Thorp Reg 2016		
<del>Split Az Chironomidae</del>	L	<del>IIII IIII</del>				
<i>Corynoneura</i>	L	IIII	15	And et al 2013		N
<i>Ranatra fusca</i>	A	1	1	Hils 1984a		
Harpacticoida	A	1	1	Thorp Reg 2016		
<i>Metopelopia</i>	L	1	1	And et al 2013		
<i>Natarsia baltimorea</i>	L	1	1	Bolton 2012		
<i>Thienemannimyra</i> group	L	1	1	And et al 2013	imm	N
<i>Eukiefferiella claripennis</i> group	L	1	1	"		
<i>Stilocladus</i>	L	1	1	"		
<i>Thienemanniella boltoni</i>	L	1	1	Bolton 2012		
<i>Tvetenia bavaria</i> group	L	1	1	Bode 1983		
<i>Paratendipes</i>	L	1	1	And et al 2013		
<i>Stempellinella</i>	L	IIII	4	"		

Handwritten note: 15/11/11