

Instructions: Bold fields must be completed.

Station Summary			
Waterbody Name WEST BRANCH MILWAUKEE RIVER		Waterbody ID Code 40400	Sample ID (YYYYMMDD-CY-FD) 20201008-20-21
Sampling Location Adjacent Rustic Road			Database Key 251163193
SWIMS Station ID 10008834		SWIMS Station Name WEST BR. MILWAUKEE RIVER STATION #3 UP FROM RUSTIC ROAD	
Latitude 43.5545	Longitude -88.2820	Lat/Long Determination Method (circle) SWIMS (SWDV) GPS	Datum Used if using GPS WGS84 or NAD83
Basin (WMU) MILWAUKEE RIVER		Watershed Name EAST AND WEST BRANCHES MILWAUKEE R	County FOND DU LAC

Sample and Site Descriptors	
Sample Collector (Last Name, First) Watkinson, Arthur	Project Name MILWAUKEE RIVER BASIN AQUATIC MACROINVERTEBRA

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) 4	Estimated Area Sampled (m ²) 1.5	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: Milw. River Study

Water Temp. (C) 12.82	D.O. (mg/l) 12.02	D.O. (% sat.) 114.0	pH (su) 7.91	Conductivity (umhos/cm) 788.0	Transparency (cm) 120
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Water Color <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input 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 type="checkbox"/> Fast (> 0.5 m/s)
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Measured Velocity circle units m/s or f/s	Average Stream Depth of reach (m) .7	Average Stream Width of reach (m) 16
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 40 Gravel (ladybug to tennisball): 50
 Sand: 10 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (_____): _____

Embeddedness of Substrate at Sample Site (%) 40 Canopy Cover at Sample Site (%) 10

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			
Physical				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 <i>Coash, Natalie</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>10%</i>
Date Processed <i>12/21/20</i>	Specimens Saved <i>Subsample archived in ABL until Feb 2021</i>	

A3:2 - 9 A3:3 - 28 A3:1 + D1:2 = 44
D1:3 - 18 D1:4 - 28 (127)

Taxa	Life Stage	Benthic Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Acentrella parvula</i>	L	i	1	Klub 2016		
<i>Acerpenna pygmaea</i>	L	i	1	"		
<i>Baetis</i>	L	i	1	Merrillum B 2019	dam	N
<i>B. intercalaris</i>	L	iii	8	Klub 2016		
<i>B. flavistriga</i> species complex	L	iii	7	"		
<i>Argia</i>	L	i	1	Merrillum B 2019	dam	
<i>Ceratopsycha</i>	L	ii	2	Hils 1995	imm	N
<i>C. bronta</i>	L	iii	8	Schmitt Hils 1986		
<i>C. morosa</i>	L	i	1	"	imm	
<i>Cheumatopsycha</i>	L	iiii	23	Merrillum B 2019		
<i>Hydropsyche</i>	L	i	1	Hils 1995	imm	N
<i>H. betteri</i>	L	iiii	4	Schmitt Hils 1986		
Limnephilidae	L	i	1	Merrillum B 2019	imm	
<i>Chimarra obscura</i>	L	iiii	9	Hils 1982		
<i>Optioservus fastiditus</i>	L	ii	5	Hils Schmitt 1992		
<i>Stenelmis</i>	L	xiii	13	Merrillum B 2019		N
<i>S. crenata</i>	A	iii	3	Hils Schmitt 1992		
<i>Cricotopus (Cricotopus)</i>	P	i	1	Wieder 1986		
<i>Thienemannella</i>	P	i	1	Merrillum B 2019		
<i>Hemeroptera</i>	L	iii	3	"		
<i>Simulium venustum</i> species complex	L	ii	2	Adl et al 2004		
<i>S. vittatum</i> species complex 08110217	L	iiii	4	"		
<i>Chrysaes</i>	L	i	1	Merrillum B 2019		
<i>Caccidotea intermedia</i>	A	i	1	Will 1972		
Split A2 Chironomidae	L	iiii	11			
<i>Thienemannella</i>	L	i	1	Adl et al 2013	imm	N
<i>Microtendipes pedellus</i> group	L	x	10	"		
<i>Eukiefferella</i>	L	i	1	"	dam	
Chironomidae 08330000	L	i	1	"	imm	N
<i>Claodiantarsus</i>	L	ii	2	"		
<i>Micropsectra</i>	L	ii	2	"		
<i>Polypedilum (Uresidilum) flavum</i>	L	i	1	Bolton 2012		
<i>Rheotantarsus</i>	L	i	1	Adl et al 2013		
<i>Stictochironomus</i>	L	i	1	"		

23 taxa, TVAL ≤ 2.0