MLR-09

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)

Instructions: **Bold** fields must be completed.

Station Summary

Waterbody Name	**Waterbody ID Code**	**Sample ID (YYYYMMDD-CY-FD)**
MILWAUKEE RIVER	15000	20201008-20-22

Sampling Location	**Database Key**
US Auburn-Ashford Drive	251163077

SWIMS Station ID	**SWIMS Station Name**
203064	MILWAUKEE RIVER AT AUBURN-ASHFORD DR (BI)

Latitude	**Longitude**	**Lat/Long Determination Method (circle)**	**Datum Used if using GPS**
43.5649	-88.2327	SWIMS (SWDV) GPS	WGS84 or NAD83

Basin (WMU)	**Watershed Name**	**County**
MILWAUKEE RIVER	EAST AND WEST BRANCHES MILWAUKEE R	FOND DU LAC

Sample and Site Descriptors

Sample Collector (Last Name, First)	**Project Name**
Watkinson, Arthur	MILWAUKEE RIVER BASIN AQUATIC MACROINVERTEBRAT

Sampling Device

- [x] D-Frame Kick Net
- [ ] Surber Sampler
- [ ] Eckman
- [ ] Ponar
- [ ] Artificial Substrate
- [ ] Hess Sampler
- [ ] Other: _____

Habitat Sampled

- [x] Riffle
- [ ] Run
- [ ] Pool
- [ ] Other
- [ ] Shoreline Composite
- [ ] Proportionally-Sampled Habitat
- [ ] Littoral Zone
- [ ] Profundal Zone
- [ ] Wetland

Total Sampling Time (min)	**Estimated Area Sampled (m^2)**	**Number of Samples in Composite**	**Replicate No.** ____ **of** ____
4	1		

Reason For Sampling

- [ ] Least Impacted Reference
- [ ] Baseline
- [ ] Impact / Treatment Site
- [ ] Control Site
- [ ] Trend
- [x] Other: Milw. River Sample

Water Temp. (C)	**D.O. (mg/l)**	**D.O. (% sat.)**	**pH (su)**	**Conductivity (umhos/cm)**	**Transparency (cm)**
12.46	7.53	119.0	7.57	696.2	+120

Water Color

- [x] Clear
- [ ] Turbid
- [ ] Stained

Estimated Stream Velocity (m/s)

- [ ] Slow (< 0.15 m/s)
- [x] Moderate (0.15 m/s - 0.5 m/s)
- [ ] Fast (> 0.5 m/s)

Measured Velocity (circle units m/s **or** f/s)	**Average Stream Depth of reach (m)**	**Average Stream Width of reach (m)**

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 20 Gravel (ladybug to tennisball): 60

Sand: 20 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____

Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (_____): _____

Embeddedness of Substrate at Sample Site (%) 50 **Canopy Cover at Sample Site (%)** 20

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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		
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	Taxonomist	Estimated Percent of Sample Sorted
Coash, Natalie	Dimick, Jeffrey	~~11.6~~ 11.7
Date Processed	**Specimens Saved**	
12/22/2020	Subsample archived in ABL until Feb 2024	

D2:2 - 23
A1:4 - 12
D2:1 - 19
A1:3-23
D2:3 + A1:1 - 41
D2:4 - 22
140

Wisconsin Department of Natural Resources
ABL SampleNum: **20201008-20-22**
Taxonomist: Dimick, Jeffrey

Waterbody: **Milwaukee River**
SWIMS Database Key: **251163077**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Baetis intercalaris	L	III	3	Klub 2016		
B. flavistriga species complex	L	IIII	4	"		
Caenis	L	I	1	MerrlammB 2019	rmm	
Leuctra	L	III	3	Klub 2016		
Maccaffertium mediopunctatum	L	0-III	28	"		
Stenacron	L	I	1	MerrlammB 2019	rmm	
Taeniopteryx	L	-III	9	"	rmm	
Protoptila	L	or	25	"		
Ceratopsyche bronta	L	-	5	SchmHils 1986		
Cheumatopsyche	L	-II	7	MerrlammB 2019		
Limnephilidae	L	I	1	"	rmm	
Psychomyia flavida	L	I	1	Hils 1995		
Optioservus	L	-III	8	MerrlammB 2019	rmm	N
O. fastidiosus	L	XIII	13	Hils Schm 1992		
Stenelmis	L	-III	8	MerrlammB 2019		N
S. crenata	A	I	1	Hils Schm 1992		
Psephenus herricki	L	I	1	"		
Thienemanniella	P	I	1	MerrlammB 2019		
Simulium	L	I	1	"	rmm	N
S. venustum species complex	L	I	1	Adl et al 2004		
Antocha	L	I	1	MerrlammB 2019		
Gammarus pseudolimnaeus	A	IIII	4	Hols 1972		
Caecidotea intermedia	A	I	1	Will 1972		
~~Split Az Chironomidae~~	L	~~(-II)~~				
Cladotanytarsus	L	II		Ard et al 2013		
Microtendipes pedellus group	L	IIII		"		
Polypedilum (Uresipedilum) flavum	L	I		Bolton 2012		