MEC-01

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)
MELIUS CREEK	32100	20201013-60-34

Sampling Location	Database Key
DS bridge	249875098

SWIMS Station ID	SWIMS Station Name
603301	MELIUS CREEK AT STH 28 (BI SUR)

Latitude	Longitude	Lat/Long Determination Method (circle)	Datum Used if using GPS
43.6199	-88.0509	SWIMS (SWDV) GPS	WGS84 or NAD83

Basin (WMU)	Watershed Name	County
MILWAUKEE RIVER	NORTH BRANCH MILWAUKEE RIVER	SHEBOYGAN

Sample and Site Descriptors

Sample Collector (Last Name, First)	Project Name
~~CRAIG HELKER~~ Schultz, Amanda	MILWAUKEE RIVER BASIN AQUATIC MACROINVERTEBRAT

Sampling Device

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

Habitat Sampled

- [ ] Riffle
- [X] 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 ____
2	2		

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)
					75

Water Color

- [X] Clear
- [ ] Turbid
- [ ] Stained

Estimated Stream Velocity (m/s)

- [ ] Slow (< 0.15 m/s)
- [ ] 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)
	.7	3

Composition of Substrate Sampled (Percent):

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

Sand: 30 Clay: _____ Silt/Muck: 10 Overhanging Vegetation: _____

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

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

Hydrolab malfunctioning

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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
Biological		
Algae: - Diatoms / Periphyton		
- Filamentous Algae		
- Planktonic Algae		
Iron Bacteria		
Macrophytes		
Slimes		
Other - Specify:		
Physical		
Bank Erosion		
Channelization: - Upstream		
- Downstream		
Hydraulic Scour / Channel Incision		
Impoundment: - Upstream		
- Downstream		
Low Flow		
Sedimentation		
Sludge		
Thermal		
Turbidity		
Other - Specify:		

Factors that may be influencing Water Resource Integrity	Local	Water-shed
Chemical		
Chlorine		
Dissolved Oxygen		
Nutrients (P, N...)		
Toxics: - Inorganic (Metals)		
- Organic (PCBs, pesticides...)		
Other - Specify:		
Sources of Stream Impacts		
Bank Erosion		
Point Source - Specify:		
Pasturing of Livestock		
Runoff: - Barnyard		
- Construction		
- Cropland		
- Urban		
Septic Systems		
Tile Drainage - Organic Soils		
- Mineral Soils		
Springs		
Tributary(s)		
Wetland		
Other - Specify:		

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter	Taxonomist	Estimated Percent of Sample Sorted
Logan Cutler	Dimick, Jeffrey	38.3 %
Date Processed	Specimens Saved	
1/28/2021	133 subsample archived in ABL until Feb 2024	

15 D2Q1,4 | 10 A3Q2,4 | 26 D2Q2,3 A3Q1,3 | 17 C3 | 23 C2 | 17 D3 | 25 B1Q1,23

Wisconsin Department of Natural Resources
ABL SampleNum: **20201013-60-34**
Taxonomist: Dimick, Jeffrey

Waterbody: **Melius Creek**
SWIMS Database Key: **249875098**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Baetis brunneicolor	L	I	1	Klub 2016		
Stenacron	L	III	3	MerrlummB 2019	cmm	N
S. interpunctatum	L	I	1	Klub 2016		
Helcopsyche borealis	L	III	3	Wils 1995		
Cheumatopsyche	L	-IIII	9	MerrlummB 2019		
Limnephilidae	L	X	10	"	cmm	N
Pycnopsyche	L	I	1	"		
Psychomyia flavida	L	I	1	Wils 1995		
Dubiraphia	L	II	2	MerrlummB 2019		
Optioservus	L	-IIII	9	"	cmm	N
O. fastiditus L, 15 A, 1	L,A	X-I	16	Wils Schm 1992		
Parakiefferiella	P	III	3	MerrlummB 2019		
Hemerodromia	L	-	5	"		
Ephydridae	L	I	1	"		
Neoplasta	L	(	1	"		
Simulium (S. venustum SC)	P	III	3	Adl et al 2004		N
S. jenningsi species group	L	II	2	"		
S. venustum species complex	L	I	1	"		
Antocha	L	I	1	MerrlummB 2019		
Dicranota	L	I	1	"		
Simulium vittatum species complex 0811021?	L	II	2	Adl et al 2004		
Gammarus pseudolimnaeus	A	8-II	47	Hols 1972		
Caecidotea intermedia	A	IIII	4	Will 1972		
Leberdra	A	II	2	Peck et al 1990		
Sperchontidae	A	II	2	"		
Cambaridae = Astacidae	A	I	1	ThorpRog 2016	dam	
Chydoridae	A	I	1	"		
Hemithidae	A	II	2	"		
Dugesiidae	A	I	1	"		
Physa	A	I	1	"		
Pisidium	A	III	3	"		
Tubificinae (with hairs)	A	I	1	KathBrin 1998		Y
Tubificinae (without hairs)	A	II	2	"		Y
Actinobdella inequiannulata	A	I	1	ThorpRog 2016		
~~Split As Chironomidae~~	~~L~~	~~-I-JJJ~~				
Diamesa	L	I	1	And et al 2013		
Cryptochironomus	L	I	1	"		

23 taxa, TVAL ≤ 2.0

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Micrtendipes pedellus group	L	1	1	Andetal 2013		
Megadrili=Metagynophora	A	1	1	ThorpRog 2016		
Chironomidae 08250000	L	1	1	Merrtumm B 2014		
Natarsia baltimorea	L	1	1	Bolton 2012		
Meropelopia	L	1	1	Andetal 2013		
Orthocladius (orthocladius)	L	1	1	"		
Parakiefferiella	L	1	1	"		N
Cladotanytarsus	L	1	1	"		
Polypedilum (Tripodura) scalaenum group	L	1	1	Bolton 2012		