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)**
SHEBOYGAN RIVER	50700	20180914-20-01

Sampling Location	**Database Key**
	168360366

SWIMS Station ID	**SWIMS Station Name**
203096	SHEBOYGAN RIVER AT HWY T

Latitude	**Longitude**	**Lat/Long Determination Method (circle)**	**Datum Used if using GPS**
43.7557373	-88.2670942	SWIMS SWDV GPS	WGS84 or NAD83

Basin (WMU)	**Watershed Name**	**County**
SHEBOYGAN	SHEBOYGAN RIVER	FOND DU LAC

Sample and Site Descriptors

Sample Collector (Last Name, First)	**Project Name**
DAVID BOLHA	NER LONG-TERM TREND WADEABLE REFERENCE STREAM

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** ____
3	1.5	1	

Reason For Sampling

- [ ] Least Impacted Reference
- [ ] Baseline
- [ ] Impact / Treatment Site
- [ ] Control Site
- [X] Trend
- [ ] Other: _____

Water Temp. (C)	**D.O. (mg/l)**	**D.O. (% sat.)**	**pH (su)**	**Conductivity (umhos/cm)**	**Transparency (cm)**
16.5	9.3	97.6	8.0	745	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)**
	0.1	6.0

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 10 Gravel (ladybug to tennisball): 70

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

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

Embeddedness of Substrate at Sample Site (%) 20 **Canopy Cover at Sample Site (%)** 0

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

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

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter	Taxonomist	Estimated Percent of Sample Sorted
Coash, Natalie	Dimick, Jeffrey	27%
Date Processed	**Specimens Saved**	
10/2/2019	Subsample archived in ABL until Jan 2022	

D3 - 165
D2 - 153
B3 - 112
C1 - 141
471

A1
L2
C3

Wisconsin Department of Natural Resources
ABL SampleNum: **20180914-20-01**
Taxonomist: Dimick, Jeffrey

Waterbody: **Sheboygan River**
SWIMS Database Key: **168360366**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Baetis	L	x	15	Klub 2016	dam/imm	N
B. brunneicolor	L	x	15	"		
B. flavistriga species complex	L	x 0 III	33	"		
Stenacron	L	II	2	"	imm	N
S. interpunctatum	L	II	2	"		
Caenis punctata	L	I	1	"		
Caloptenyx	L	I	1	West May 1996	imm	
Helicopsyche borealis	L	0-IIII	29	Hils 1995		
Cheumatopsyche	L	-IIII	9	"		
Hydropsyche cuanis	L	II	2	Schm Hils 1986		
H. betteni	L	I	1	"		
Ceratopsyche	L	III	3	Hils 1995	imm	N
C. bronta	L	III	3	Schm Hils 1986		
~~Limnephilidae~~	P	I	1	Wiggins 2008		
Chimarra aterrima	L	I	1	Hils 1982		
Dubiraphia	L	IIII	5	Hils Schm 1992	imm	N
D. quadrinotata	A	I	1	"		
Optioservus	L	88 II	82	"	imm	N
O. fastiditus L, 25 A, 2	L/A	8-II	27	"		
Stenelmis	L	88-III	109	"		N
S. crenata	A	-I	6	"		
Hemerodromia	L	I	1	Courtney 2008		
Simulium fibriatum	L	I	1	Adler et al 2004		
Chrysops	L	I	1	Hils 1995		
Antocha	L	I	1	"		
Dicranota	L	II	2	"		
Pilaria	L	I	1	"		JD
Chironominae 08330001 (A=1, Tsmi)	P	II	2	Ferrell 2008	dam	~~not~~ N
Polypedilum	P	I	1	"		N
Gammarus pseudolimnaeus	A	8x-III	58	Hils 1972		
Caecidotea	A	II	2	Will 1972	imm	
Dugesiidae	A	I	1	Thorp Rog 2016		
Tubificinae (without hairs)	A	xIII	13	Klemm 1985		
Megadrili = Metagynophora	A	I	1	Thorp Rog 2016		
Pisidium	A	I	1	Mackie 2007		
Sphaerium	A	-	5	"		
Erpobdellidae	A	I	1	~~Bio~~ Klemm 1985		
~~Split A3 Chironomidae~~	L	+JD				

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Potthastia longimanus group	L	1	1	Saeth And 2013		
Orthocladiinae 08300000	L	11	2	Cranston 2013	mt in det	Y
Corynoneura	L	1	1	And + 3 2013		
Cricotopus (Cricotopus) bicinctus group	L	1	1	"		
Eukiefferiella brehm/gracei	L	111	3	"	mt rndet/dam	
Parakiefferiella	L	1	1	"		
Tvetenia bavarica group	L	1	1	Bode 1983		
Cladotanytarsus	L	1	1	Epl et al 2013		
Cryptochironomus	L	1	1	"		
Microtendipes pedellus group	L	11	7	"		
Polypedilum (Uresipedilum) aviceps	L	11	2	Bolton 2012		
Rheotanytarsus	L	/	5	Epl et al 2013		
Tanytarsus	L	1	1	"		