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)**
ONION RIVER	51200	20201006-60-03

Sampling Location	**Database Key**
R: 111r. SOS	250470572

SWIMS Station ID	**SWIMS Station Name**
603340	ONION RIVER AT CTH E OR1

Latitude	**Longitude**	**Lat/Long Determination Method (circle)**	**Datum Used if using GPS**
43.71	-87.9915	(SWIMS) SWDV GPS	WGS84 or NAD83

Basin (WMU)	**Watershed Name**	**County**
SHEBOYGAN	ONION RIVER	SHEBOYGAN

Sample and Site Descriptors

Sample Collector (Last Name, First)	**Project Name**
Helker, Craig	SER LONG-TERM TREND WADEABLE REFERENCE STREAMS

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**
1	1	1	1 / 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)**
11.84	12.41	116.4	8.31	1087	+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)**
	.3	28

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 30 Gravel (ladybug to tennisball): 70

Sand: _____ 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 (%)** 30

20201006-60-03
Station # 603340
Sample 1 of 1
Onion River -at CTH E
WBIC 51200
Craig Helker
LTT Wadable Refrence Stream

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)

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
Reed, Kayla	Dimick, Jeffrey	3.52%
Date Processed	**Specimens Saved**	
11-29-2021	153 sub-sample archived in LAB Until Feb 2025	

DZQ2 → 606
AZQ3 → 51
DZQ4Q1 → 316

Wisconsin Department of Natural Resources
ABL SampleNum: **20201006-60-03**
Taxonomist: Dimick, Jeffrey

Waterbody: **Onion River**
SWIMS Database Key: **250470572**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Baetis brunneicolor	L	III	3	Kluh 2016		
B. flavistriga species complex	L	I	1	"		
1/1 Taeniopteryx	L	I	1	MCB 2019	imm	
Ceratopsyche	L	I	1	Hils 1995	imm	N
C. bronta	L	~~IIII~~ II	7	Schm Hils 1986		
C. slossonae	L	~~IIII~~ III	8	"		
Cheumatopsyche	L	~~IIII~~ I	26	MCB 2019		
Hydropsyche	L	I	1	Hils 1995	imm	N
H. betteni	L	X IIII	14	Schm Hils 1986		
Optioservus	L	~~IIII~~ II	27	MCB 2019	imm	N
O. fastiditus L, 28 A, 1	L, A	~~IIII~~	29	Hils Schm 1992		
Staphylinidae	A	I	1	MCB 2019		
Eukiefferiella devonica group	P	I	1	Cff et al 1986		N
Tvetenia	P	III	3	MCB 2019		N
Simulium tuberosum species complex	L	I	1	Adl et al 2004		
S. vittatum species complex 08110217	L	II	2	"		
Antocha	L	IIII	4	MCB 2019		
Gammarus pseudolimnaeus	A	~~IIII~~	9	Hols 1972		
Caecidotea	A	II	2	Thorp Rog 2016	imm	
Megadrili	A	I	1	"		
Naidinae	A	I	1	Kath Brin 1998		
Simulium venustum species complex	L	I	1	Adl et al 2004		
~~Split to Chironomidae~~	~~L~~	~~XIIII~~ ND				
Cricotopus (Cricotopus) trifascia group	L	II	1	And et al 2013		
Eukiefferiella devonica group	L	X	10	"		
Tvetenia bavarica group	L	II	2	Bode 1983		
Cladotanytarsus	L	IIII	4	And et al 2013		
Microtendipes pedellus group	L	II	2	"		
Rheotanytarsus	L	II	2	"		
Orthocladius (Orthocladius)	L	IIII	4	"		
Chironominae	L	I	1	"	imm	N

<3 taxa, TWAL ≤ 2.0