State of Wisconsin
Department of Natural Resources
PO Box 7291, Madison WI 53707-7291
dnr.w i.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	20161021-60-01

Sampling Location: 28m US CTH E bridge

Database Key: 134807307

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**
43.82212	-88.22305	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**
DYLAN OLSON	SER LONG-TERM TREND WADEABLE REFERENCE STREAMS

Sampling Device

- [x] 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** ___
2min	1m2	1	1 of 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)**
9.3	12.0	108.0	8.16	720.0	120+

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)
- [x] 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)**
—	0.5ft	8m

Composition of Substrate Sampled (Percent):

Bedrock:	Boulders (basketball or larger):	Rubble (tennisball to basketball):	Gravel (ladybug to tennisball): 40
Sand: 60	Clay:	Silt/Muck:	Overhanging Vegetation:
Aquatic Macrophytes:	Leaf Snags: 20	Coarse Woody Debris:	Other (_____):

Embeddedness of Substrate at Sample Site (%) 10 **Canopy Cover at Sample Site (%)** 20

State of Wisconsin
Department of Natural Resources
PO Box 7291, Madison WI 53707-7291
dnr.w i.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	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		
- Dow nstream			- Construction		
Hydraulic Scour / Channel Incision			- Cropland		
Impoundment: - Upstream			- Urban		
- Dow nstream			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: Andrew Kohlmann	Taxonomist: Dimick, Jeffrey	Estimated Percent of Sample Sorted: 7%
Date Processed: 5/9/17	Specimens Saved: Subsample archived at ABL until Nov 2020	

C2-158

Wisconsin Department of Natural Resources
ABL SampleNum: **20161021-60-01**
Taxonomist: Dimick, Jeffrey

Waterbody: **Onion River**
SWIMS Database Key: **134807307**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Baetis tricaudatus	L	I	1	Richerlanz 2016		
cheumatopsyche	L	8-II	47	Hilsenhoff 1995		
Hydropsyche	L	III	3	"	imm	N
H. betteni	L	OIIII	24	Schm., Hils. 1986		
Ceratopsyche	L	II	2	Hilsenhoff 1995	imm	N
C. bronta	L	-	5	Schm., Hils. 1986		
C. slossonae	L	xIII	13	"		
C. sparna	L	I	1	"		
Limnephilidae	L	I	1	Hilsenhoff 1995	imm	
Optioservus	L	OII	22	Hils., Schm. 1992	imm	N
O. fastiditus L, 22 A, 1	L,A	OIII	23	"		
Stenelmis	L	I	1	"		
Hemerodromia	L	III	3	Court., Meir. 2008		
Neoplasta	L	I	1	"		
Simulium vittatum species complex 08110217	L	I	1	Acker et al 2004		
Gammarus pseudolimnaeus	L	II	3	Holsinger 1972		
~~Split A3 Chironomidae~~	L	+ VII)				
Eukiefferiella devonica group	P	I	1	Coff et al 1986		Y
Orthocladius (Orthocladius)	P	-I	6	"		
Pagastia	L	II	2	Seth., Ander. 2013		
orthocladiinae	L	II	2	Cranston 2013	imm	N
Brillia	L	I	1	Ander. + 3 2013	imm	N
B. flavifrons	L	II	2	Epler 2001		
Eukiefferiella	L	-I	6	Ander. + 3 2013	mt indet	Y
Parametriocnemus	L	II	2	"		
orthocladius (Orthocladius)	L	x-III	18	"		N
Cricotopus/orthocladius	L	I	1	Fenn. et al. 2008	dam	N
Microtendipes pedellus group	L	I	1	Epler et al 2013		
Paratanytarsus sp. A	L	I	1	Hilsenhoff unpbl		
P. longistilus	L	-III	8	Epler et al 2013		
Polypedilum (Uresipedilum) aviceps	L	II	2	Bolton 2012		
Rheotanytarsus	L	III	3	Epler et al 2013		
Tanytarsus	L	I	1	"		

3 taxa, TVAL ≤ 2.0

4 < (0.1 × 198)