

Instructions: Bold fields must be completed.

Station Summary			
Waterbody Name <b>ONION RIVER</b>		Waterbody ID Code 51200	Sample ID (YYYYMMDD-CY-FD) <b>20211027-60-03</b>
Sampling Location <b>SOS</b>		Database Key 288762629	
SWIMS Station ID 603340		SWIMS Station Name ONION RIVER AT CTH E ORI	
Latitude <b>43.7100</b>	Longitude <b>-87.9915</b>	Lat/Long Determination Method (circle) SWIMS <b>SWDV</b> GPS	Datum Used if using GPS <b>WGS84</b> or NAD83
Basin (WMU) SHEBOYGAN		Watershed Name ONION RIVER	County SHEBOYGAN

Sample and Site Descriptors	
Sample Collector (Last Name, First) <b>Heller, Chris</b>	Project Name SER LONG-TERM TREND WADEABLE REFERENCE STREAM

Sampling Device

D-Frame Kick Net     
  Surber Sampler     
  Eckman  
 Ponar     
  Artificial Substrate     
  Hess Sampler     
  Other: \_\_\_\_\_

Habitat Sampled

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

Total Sampling Time (min) <b>4</b>	Estimated Area Sampled (m <sup>2</sup> ) <b>4</b>	Number of Samples in Composite	Replicate No. _____ of _____
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Reason For Sampling

Least Impacted Reference     
  Baseline     
  Impact / Treatment Site  
 Control Site     
  Trend     
  Other: \_\_\_\_\_

Water Temp. (C) <b>7.39</b>	D.O. (mg/l) <b>112.7</b>	D.O. (% sat.) <b>13.49</b>	pH (su) <b>8.07</b>	Conductivity (umhos/cm) <b>656.1</b> <b>tds 421.1</b>	Transparency (cm) <b>120</b>
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Water Color

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 <b>1.86</b>	circle units m/s or f/s	Average Stream Depth of reach (m) <b>0.3</b>	Average Stream Width of reach (m) <b>8.7</b>
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Composition of Substrate Sampled (Percent):

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): \_\_\_\_\_ Rubble (tennisball to basketball): **30** Gravel (ladybug to tennisball): **40**  
 Sand: **30** Clay: \_\_\_\_\_ Silt/Muck: \_\_\_\_\_ Overhanging Vegetation: \_\_\_\_\_  
 Aquatic Macrophytes: \_\_\_\_\_ Leaf Snags: \_\_\_\_\_ Coarse Woody Debris: \_\_\_\_\_ Other ( \_\_\_\_\_ ): \_\_\_\_\_  
 Embeddedness of Substrate at Sample Site (%) **30** Canopy Cover at Sample Site (%) **60**

**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
<b>Biological</b>				<b>Chemical</b>			
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:				<b>Sources of Stream Impacts</b>			
				Bank Erosion			
				Point Source - Specify:			
				Pasturing of Livestock			
<b>Physical</b>				Runoff: - Barnyard			
Bank Erosion				- Construction			
Channelization: - Upstream				- Cropland			
- Downstream				- Urban			
Hydraulic Scour / Channel Incision				Septic Systems			
Impoundment: - Upstream				Tile Drainage - Organic Soils			
- Downstream				- Mineral Soils			
Low Flow				Springs			
Sedimentation				Tributary(s)			
Sludge				Wetland			
Thermal				Other - Specify:			
Turbidity							
Other - Specify:							

Comments

Special Instructions for Laboratory

**For Lab Use Only**

Sample Sorter Reed, Kayla	Taxonomist Dimick, Jeffrey	Estimated Percent of Sample Sorted ② 4.7%   3.9%
Date Processed ② 11/7/22	Specimens Saved ② 166	133 subsamples archived in ABL until Mar 2026

② 1  
 A2q 2:42 D3q 4:53  
 q3: 71 q1:  
 q1: a3:  
 q4: e2:  
 ② B3q 2:46 A1q 4:09 2.5/64  
 q3q3: 81 q3:  
 q3q4: 10 q1:  
 AH q2:

Taxa	Life Stage	Organism Count			Taxonomic Reference	Condition	Unique Taxon
		Rep 1	Rep 2	Rep 3			
Neptacoridae	L	0	1		MCB 2019	imm	N
Maccarterium medropunctatum	L	0	1		Klub 2016		
M. vicarium	L	5	5		"		
Stenacron	L	3	0		MCB 2019	imm	
Taeniopteryx	L	4	1		"	imm	
Blossosoma	L	0	1		"	imm	
Ceratopsyche	L	1	1		Hils 1995	imm	N
C. bronta	L	11	9		SchmHils 1986		
C. glossonae	L	13	8		"		
Chematopsyche	L	35	28		MCB 2019		
Hydropsyche	L	2	3		Hils 1995	imm	N
H. betteni	L	10	7		SchmHils 1986		
Hydroptila	L	0	2		<del>Wieder</del> Wiggins 1977		
Limnephilidae	L	0	1		MCB 2019	imm	
Nephylax	L	0	1		"	imm	N
N. concinnus	L	0	1		Bright 2016		
Orthotrypus	L	12	16		MCB 2019	imm	N
O. fastidiosus R1 L31 R2 L28 A14	L/A	31	32		HilSchm 1992		
Orthocladus (Orthocladus) 08305801 P	<del>L/A</del>	0	1		Wieder 1986		N
Hemerodromia	L	1	1		MCB 2019		
Simulium vittatum species complex 0840217	L	1	2		Ader et al 2004		
Antocha	L	11	6		MCB 2019		
Gammarus pseudolimnaeus	A	5	11		Hols 1972		
Coecidotia intermedia	A	3	0		Will 1972		
Naidinae	A	5	3		Kath Brun 1998		
Tubificinae (without hairs)	A	2	1		"		
<del>split A2 Chironomidae</del>	L	12	11	D			
Pagastia	L	4	1		Ader et al 2013		
Orthocladinae 0830000D	L	3	0		"	imm	N
Cricotopus (Cricotopus) brevis group	L	1	0		"		
Eukiefferiella brehmi group	L	0	1		"		
E. devonica group	L	1	0		"		
Parakiefferiella	L	1	1		"		
Parametropenemus	L	1	0		"		
Rheocricotopus	L	0	1		"		
Orthocladus (Orthocladus)	L	1	1		"		
Theremanniella	L	0	1		"	imm	
Tweenia bavaria group	L	3	3		Bode 1983		
Cladotanytarsus	L	0	1		Ader et al 2013		

