

Instructions: **Bold** fields must be completed.

Station Summary		
<b>Waterbody Name</b> UNNAMED	<b>Waterbody ID Code</b> 64100	<b>Sample ID (YYYYMMDD-CY-FD)</b> 20221018-36-02

<b>Sampling Location</b> Riffle bed of body @ EDS	<b>Database Key</b> 323972374
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<b>SWIMS Station ID</b> 10016614	<b>SWIMS Station Name</b> UNNAMED TRIB TO PIGEON R - DOWNSTREAM OF WEST WASHINGTON ROAD
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<b>Latitude</b> 43.9136	<b>Longitude</b> -87.8914	<b>Lat/Long Determination Method (circle)</b> <u>SWIMS</u> SWDV GPS	<b>Datum Used if using GPS</b> <u>WGS84</u> or NAD83
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<b>Basin (WMU)</b> SHEBOYGAN	<b>Watershed Name</b> PIGEON RIVER	<b>County</b> MANITOWOC
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Sample and Site Descriptors	
<b>Sample Collector (Last Name, First)</b> CRAIG HELKER	<b>Project Name</b> PIGEON RIVER TWA 2022

<b>Sampling Device</b>			
<input checked="" type="checkbox"/> D-Frame Kick Net	<input type="checkbox"/> Surber Sampler	<input type="checkbox"/> Eckman	
<input type="checkbox"/> Ponar	<input type="checkbox"/> Artificial Substrate	<input type="checkbox"/> Hess Sampler	<input type="checkbox"/> Other: _____

<b>Habitat Sampled</b>		
<input checked="" type="checkbox"/> Riffle	<input type="checkbox"/> Run	<input type="checkbox"/> Pool
<input type="checkbox"/> Other	<input type="checkbox"/> Shoreline Composite	<input type="checkbox"/> Proportionally-Sampled Habitat
<input type="checkbox"/> Littoral Zone	<input type="checkbox"/> Profundal Zone	<input type="checkbox"/> Wetland

<b>Total Sampling Time (min)</b> 2	<b>Estimated Area Sampled (m<sup>2</sup>)</b> 2	<b>Number of Samples in Composite</b> 2	<b>Replicate No. _____ of _____</b>
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<b>Reason For Sampling</b>		
<input type="checkbox"/> Least Impacted Reference	<input type="checkbox"/> Baseline	<input type="checkbox"/> Impact / Treatment Site
<input type="checkbox"/> Control Site	<input type="checkbox"/> Trend	<input checked="" type="checkbox"/> Other: Pigeon River TWA

<b>Water Temp. (C)</b> 5.1	<b>D.O. (mg/l)</b> 11.82	<b>D.O. (% sat.)</b> 93.0	<b>pH (su)</b> 8.60	<b>Conductivity (umhos/cm)</b> 528	<b>Transparency (cm)</b> 120
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<b>Water Color</b>	<b>Estimated Stream Velocity (m/s)</b>
<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained	<input type="checkbox"/> Slow (< 0.15 m/s) <input checked="" type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input type="checkbox"/> Fast (> 0.5 m/s)

<b>Measured Velocity</b> 1.67	circle units m/s or <u>f/s</u>	<b>Average Stream Depth of reach (m)</b> .3	<b>Average Stream Width of reach (m)</b> 3
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**Composition of Substrate Sampled (Percent):**

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): \_\_\_\_\_ Rubble (tennisball to basketball): 50 Gravel (ladybug to tennisball): 40

Sand: 10 Clay: \_\_\_\_\_ Silt/Muck: \_\_\_\_\_ Overhanging Vegetation: \_\_\_\_\_

Aquatic Macrophytes: \_\_\_\_\_ Leaf Snags: \_\_\_\_\_ Coarse Woody Debris: \_\_\_\_\_ Other ( \_\_\_\_\_ ): \_\_\_\_\_

<b>Embeddedness of Substrate at Sample Site (%)</b> 10	<b>Percent of Sample Site (%)</b> 10
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20221018-36-02  
 Station # 10016614  
 Sample 1 of 1  
 Un Trib to Pigeon River  
 WBIC 64100  
 Craig Helker  
 Pigeon River TWA 2022

**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

C<sub>2</sub> D<sub>3</sub>  
 93-66 94-78 = 324 + 19  
 92-79 91-101  
 91- 93-  
 94- 92-

**For Lab Use Only**

Sample Sorter Mary Joy Relagio	Taxonomist Dimitry J. Prael	Estimated Percent of Sample Sorted 20-25% 4-7
Date Processed 2/14/2023	Specimens Saved Subsample archived in ABL cabinet May 2026	

Taxa	Life Stage	Benthic Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Baetis brunneicollis</i>	L I		1	Klebs 2016		
<i>B. flavistriga</i> species group	L I		1	"		
<i>Helicopsyche borealis</i>	L II		2	Hils 1995		
<i>Chamaetypa</i>	L B-III		50	MCB 2019		
<i>Hydropsyche</i>	L III		3	Hils 1995		
<i>H. betteri</i>	L -III		11	Schmitts 1986		
<i>Oligoneurus</i>	L B-III		107	MCB 2019	imm	N
<i>O. fastidius</i> L, 27 A, 2	L A	2-III	29	Hils Schm 1992		
<i>Stenelmis</i>	L XI		11	MCB 2019		N
<i>S. crenata</i>	A I		1	Hils Schm 1992		
<i>Proleptusa</i>	L I		1	Hils 1995		
<i>Theremanniella</i> 08304701	P P	I	1	MCB 2019		N
<i>Tuctenia</i> 08304803	P I		1	"		N
<i>Hemerodromia</i>	L I		1	"		
<i>Antocha</i>	L II		2	"		
<i>Dicranota</i>	L III		21	"		
<i>Gammarus pseudolimnii</i>	A III		8	Holsinger 1972		
<i>Caecidotea intermedia</i>	A I		6	Williams 1972		
Dugesidae	A I		1	Thorp & Eg 2016		
Maidenia	A I		1	Kalci Brown 1999		
Hydrobates	A I		1	Peck et al 1990		
Spercheonidae	A I		1	"		
<del>Split Az Chironomidae</del>	L <del>III</del> 200					
<i>Maratizipetrella</i>	B I		1	Ander et al 2013		(25)
<i>Parametoponemus</i>	L III		3	"		
<i>Tuctenia bavaria</i> group	L I		1	Bode 1983		
<i>Cladotanytarsus</i>	L III		7	Ander et al 2013		
<i>Micropentodes pedellus</i> group	L I		1	"		
<i>Zootanytarsus</i>	L I		1	"		
<i>Conchapelapa</i>	L I		1	"		
<i>Cricotopus (Cricotopus) tremulus</i> group	L I		1	"		
<i>Rheocricotopus</i>	L I		2	"		
<i>Theremanniella xena</i>	L II		2	"		
<i>Polyperilum (Polyperilum) laetum</i> group	L I		1	Bolton 2012		
<i>P. (Uresipedium) aviceps</i>	L I		1	"		
<i>P. (U.) flavum</i>	L II		2	"		