

Instructions: Bold fields must be completed.

Station Summary			
Waterbody Name POINT CREEK		Waterbody ID Code 66000	Sample ID (YYYYMMDD-CY-FD) 20170921-36-05
Sampling Location			Database Key 149675949
SWIMS Station ID 363333		SWIMS Station Name POINT CREEK AT CENTER ROAD	
Latitude 43.970593	Longitude -87.742002	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
Basin (WMU) MANITOWOC		Watershed Name SEVENMILE AND SILVER CREEKS	County MANITOWOC

Sample and Site Descriptors	
Sample Collector (Last Name, First) JOSHUA BENES	Project Name EAST DISTRICT FOLLOW UP MONITORING FOR IMPAIRME

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) 3	Estimated Area Sampled (m ²)	Number of Samples in Composite	Replicate No. <u>1</u> of <u>1</u>
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Reason For Sampling

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

Water Temp. (C) 19.49	D.O. (mg/l) 10.71	D.O. (% sat.) 116.4	pH (su) 8.17	Conductivity (umhos/cm) 634	Transparency (cm)
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Water Color <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained	Estimated Stream Velocity (m/s) <input checked="" type="checkbox"/> Slow (< 0.15 m/s) <input type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input type="checkbox"/> Fast (> 0.5 m/s)
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Measured Velocity circle units m/s or f/s	Average Stream Depth of reach (m) 0.07	Average Stream Width of reach (m) 2.5
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 5 Gravel (ladybug to tennisball): 75
 Sand: 5 Clay: 10 Silt/Muck: 5 Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (____): _____

Embeddedness of Substrate at Sample Site (%) 10 Canopy Cover at Sample Site (%) 30

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		U	
				Point Source - Specify:			
Physical							
Bank Erosion		U		Pasturing of Livestock			
Channelization: - Upstream				Runoff: - Barnyard			
- Downstream				- Construction			
Hydraulic Scour / Channel Incision				- Cropland			
Impoundment: - Upstream				- Urban			
- Downstream				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 <i>Macayla Gweider</i>	Taxonomist <i>Dimick Jeffrey</i>	Estimated Percent of Sample Sorted 7%
Date Processed 11/13/17	Specimens Saved <i>Subsample archived in ABC until Mar 2021</i>	

A1-28B

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Baetis brunneicolor</i>	L	-1	6	Kubertanz 2016		
<i>B. flavistriga</i> species complex	L	x-III	19	"		
<i>Stenacron</i>	L	III	3	"	imm	N
<i>S. interpunctatum</i>	L	I	1	"		
<i>Nelocpsyche borealis</i>	L	-1	6	Hilsenhoff 1995		
Hydropsychidae	L	II	2	"	imm	N
<i>Cheumatopsyche</i>	L	0-	25	"		
<i>Hydropsyche</i>	L	II	2	"	imm	N
<i>H. betteni</i>	L	Bx-III	59	Schm., Hils. 1986		
<i>Ceratopsyche</i>	L	II	2	Hilsenhoff 1995	imm	N
<i>C. slossonae</i>	L	X	10	Schm., Hils. 1986		
Zimpheriidae	L	I	1	Hilsenhoff 1995	imm	
<i>Optroservus</i>	L	X	31	Hils., Schm. 1992	imm	N
<i>D. fastiditus</i> L, ZADD A, II	LA	0x-II	38	"		
<i>Stenelmis</i>	L	-III	8	"		N
<i>S. crenata</i>	A	x-III	18	"		
<i>Ectoparia leechi/nervosa</i>	L	I	1	"		
<i>Nemerodromia</i>	L	III	4	Acott, Merr. 2008		
Muscidae	L	I	1	Hilsenhoff 1995		
Ephydriidae	L	I	1	Acott, Merr. 2008		N
Ephydriidae	P	I	1	Merr., Webb 2008		
<i>Antocha</i>	L	I	1	Hilsenhoff 1995		
<i>Tipula</i>	L	II	3	"		
<i>Tanyptera</i> OBZ10001 (Nilot?)	P	I	1	Ferr. et al. 2008		
<i>Parametricnemus</i>	P	II	2	"		
<i>Tvetenia</i>	P	I	1	"		
<i>Gammarus pseudolimnoides</i>	A	Bx-1	56	Holsinger 1972		
<i>Caecidotea</i>	A	II	2	Williams 1972	imm	
<i>Hydrobates</i>	A	II	2	Pluchino 1984		
Naididae	A	I	1	Bank, Geld. 1991		
Tubificoid Naididae w/ capilliform chaetae	A	IIII	4	Eiseus et al 2008		
<i>Physa</i>	A	Bx	35	Rogers 2016		
<i>Sphaerium</i>	A	I	1	Burch 1972		
Split A's Chironomidae	L	II-III				
<i>Coryphaena</i>	L	I	1	Anderson 2013		
<i>Tvetenia bavarica</i> group	L	III	3	Bode 1983		

