

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name PINE CREEK	Waterbody ID Code 79900	Sample ID (YYYYMMDD-CY-FD) 202109280801
Sampling Location CTH T		Database Key 285168611

SWIMS Station ID 10020831	SWIMS Station Name PINE CREEK - 200 FEET DOWNSTREAM FROM CTH T
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Latitude	Longitude	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
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Basin (WMU) MANITOWOC	Watershed Name SOUTH BRANCH MANITOWOC RIVER	County CALUMET
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Sample and Site Descriptors

Sample Collector (Last Name, First) MARY GANSBERG	Project Name NER LONG-TERM TREND WADEABLE REFERENCE STREAM
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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 (m²) 0.3	Number of Samples in Composite 1	Replicate No. _____ of _____
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Reason For Sampling

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

Water Temp. (C) 12.9	D.O. (mg/l) 7.2	D.O. (% sat.) 68.4	pH (su) 7.7	Conductivity (umhos/cm) 772	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) 0.3	Average Stream Width of reach (m) 5
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 20 Gravel (ladybug to tennisball): 70
 Sand: 10 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (_____): _____

Embeddedness of Substrate at Sample Site (%) 10 **Canopy Cover at Sample Site (%)** 70

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

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter Reed, Kayla	Taxonomist Dimick, Jeffrey	Estimated Percent of Sample Sorted (R) 14.1% (R2) 14.1%
Date Processed 11/2/22	Specimens Saved (R) 140 (R2) 126	Subsample archived in dsl under Feb 2026

(R1) D2q1:14 A1q4:18 B3q1:16
 q3:20 q1:16
 q4:16 q3:10
 q1:18 q2:12

(R2) B2q1:9 D2q1:20 A4q3:22
 q2:10 q2:16
 q3:11 q4:14
 q4:4 q3:20

Taxa	Life Stage	Organism Count			Taxonomic Reference	Condition	Unique Taxon
		Rep 1	Rep 2	Rep 3			
Baetis	L	0	1		MCB 2019	imm	N
B. brunneicolar	L	3	9		Kub 2016		
B. flavistriga species complex	L	3	5		"		
Stenacron integrivittatum	L	2	0		"		
Hydropsyche	L	2	3		MCB 2019	imm	N
Ceratopsyche strosserae	L	1	0		Schm Hils 1986		
Cheumatopsyche	L	19	18		MCB 2019		
Hydropsyche	L	1	0		Hils 1995	imm	N
H. betteni	L	23	13		Schm Hils 1986		
Limnephilidae	L	0	1		MCB 2019		
Chimarra atemina	L	4	7		Hils 1982		
Optioservus	L	13	18		MCB 2019	imm	N
O. fastidivus 21 L10 22 LB A3	L/A	10	11		Hils Schm 1992		
Stenelmis	L	4	1		MCB 2019		N
S. crenata	A	0	1		Hils Schm 1992		
Dubiraphia	L	0	1		MCB 2019		
Cyphur/Cortacyphe	L	0	1		Hils 1995		
Microvelia americana	A	0	1		Hils 1984a		
Thienemannella 08304201	P	0	1		MCB 2019		N
Tretania 08304803	P	1	2		"		N
Hemerodromia	L	1	4		"		
Simulium fibroflatum	L	3	2		Acker et al 2004		
S. jenningsi species group	L	13	15		"	imm	N
S. vittatum species complex 08110217	L	2	2		"		
Dicraneta	L	3	5		MCB 2019		
Gammarus pseudolimnaeus	A	7	0		Hils 1972		
Dugesidae	A	2	5		Thorp Reg 2016		
Sphaerium	A	1	0		"	imm	
Naidinae	A	3	5		Kath Brim 1998		Y
Pristina	A	1	1		"		
Tubificinae (without hairs)	A	3	4		"		
Split A2 Chironomidae	L	5	8	0			
Comptosia	L	3	3		Ander et al 2013		
Cricotopus (Cricotopus)	L	0	1		"		
Thienemannella xena	L	3	3		Bolton 2012		
Tretania bavaria group	L	4	6		Bak 1983		
Cladotanytarsus	L	15	4		Ander et al 2013		
Polypedium (Polypedium) illinoense group	L	0	1		Bolton 2012		
P. (Pseudopodium) flavum	L	2	0		"		

L3 taxa, TVAL ≤ 20

