

Instructions: Bold fields must be completed.

Station Summary			
Waterbody Name RACCOON CREEK		Waterbody ID Code 874000	Sample ID (YYYYMMDD-CY-FD) 20211012-54-03
Sampling Location 5m downstream STH 81		Database Key 292586058	
SWIMS Station ID 10013075		SWIMS Station Name RACCOON CREEK - HWY 81 BRIDGE	
Latitude 42.52652	Longitude -89.19533	Lat/Long Determination Method (circle) SWIMS SWDV <u>GPS</u>	Datum Used if using GPS <u>WGS84</u> or NAD83
Basin (WMU) SUGAR - PECATONICA		Watershed Name LOWER SUGAR RIVER	County ROCK

Sample and Site Descriptors	
Sample Collector (Last Name, First) AMRHEIN, JAMES	Project Name SCR 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) 3	Estimated Area Sampled (m²) 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) 16.6	D.O. (mg/l) 7.57	D.O. (% sat.) 78.0	pH (su)	Conductivity (umhos/cm)	Transparency (cm)
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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 circle units m/s or f/s	Average Stream Depth of reach (m)	Average Stream Width of reach (m)
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): 20 Rubble (tennisball to basketball): 30 Gravel (ladybug to tennisball): 20
 Sand: 20 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: 10 Coarse Woody Debris: _____ Other (____): _____

Embeddedness of Substrate at Sample Site (%) 30 **Canopy Cover at Sample Site (%)** 0

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

R2
 11/4/22
 A4 D3 B4 D2 C4 B2 B3 D4 C3 D1 C2 A1 B1 A3 A2 C1
 93-3 94-0 92-2 91-1 92-1 93-2 94-0 91-1 91-1 93-2 92-1 92-2 93-2 91-1 93-4 94-1
 92-1 91-3 93-1 93-1 94-0 92-1 92-1 93-2 94-0 92-4 94-0 93-4 92-1 92-1 94-2
 91-2 93-1 94-2 93-3 94-3 91-3 92-2 92-1 94-2 91-1 94-2 92-1 93-2 92-3 93-0
 94-2 92-1 91-1 92-2 91-2 91-1 93-1 94-3 93-1 91-0 93-1 93-2 94-0 94-2 91-3 91-1
 92-3

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For Lab Use Only		
Sample Sorter Mary Joy Relagio	Taxonomist Dimick LePey	Estimated Percent of Sample Sorted R1 93.8%, R2 100%
Date Processed 10-26-2022	Specimens Saved Subsamples archived in ABC until Jan 2026	

R1
 B4 A3 B3 D1 B1 D4 C3 A1 C2 A4 C4 B2 D3 A2 C1
 93-3 93-3 91-5 94-1 91-2 91-2 91-1 91-2 92-2 93-1 91-2 94-1 92-1 94-1 92-1
 91-5 92-2 94-2 93-3 93-5 92-1 94-2 92-3 93-1 94-2 94-1 94-3 93-5 93-2 92-2 91-2
 94-3 91-1 93-4 92-3 94-3 94-1 93-2 94-1 93-2 92-2 92-2 91-5 91-1 93-3 93-1
 92-3 94-2 92-2 91-2 92-3 93-1 92-2 94-1 91-3 91-1 93-1 92-2 94-1 91-1 94-1

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Taxa	Life Stage	Organism Count			Taxonomic Reference	Condition	Unique Taxon
		Rep 1	Rep 2	Rep 3			
<i>Coenis latipennis</i>	L	4	0		Klub 2016		
<i>Hexagenia</i>	L	3	6		MCB 2019	imm	N
<i>H. limbata</i>	L	1	0		Klub 2016		
<i>Maccaffertium vicarium</i>	L	6	3		"		
<i>Stenacron</i>	L	8	7		MCB 2019	imm	N
<i>S. interpunctatum</i>	L	1	0		Klub 2016		
<i>Calopteryx maculata</i>	L	1	1		West May 2006		
<i>Taeniopteryx</i>	L	0	1		MCB 2019	imm	
<i>Cocixidae</i>	A	1	0		"	imm	
<i>Ceratopsyche</i>	L	0	1		Hils 1995	imm	N
<i>C. bipata</i>	L	0	1		Schm Hils 1986		
<i>Cheumatopsyche</i>	L	3	4		MCB 2019		
<i>Hydropsyche betterii</i>	L	1	1		Schm Hils 1986		
<i>Hydropsyche</i>	L	1	0		MCB 2019		
<i>Diphraiphia</i>	L	6	4		"		
<i>Macronychus glabratus</i>	L	1	0		Hils 1995		
<i>Optioservus</i>	L	3	0		MCB 2019	imm	N
<i>O. fastidius</i>	L	1	6		Hils Schm 1992		
<i>Stenelmis</i>	L	0	3		MCB 2019		
<i>Colicoides</i>	L	1	0		Hils 1995		
<i>Corynoneura</i>	P	1	0		MCB 2019		
<i>Cricotopus (Cricotopus)</i>	P	3	1		Wieder 1986		
<i>Parakiefferella</i>	P	1	0		MCB 2019		N
<i>Hemerodromia</i>	L	1	1		"		N
<i>Simulium jenningsi species group</i>	L	0	1		Azeretal 2024		
<i>Gammarus pseudolimnaeus</i>	A	3	0		Hols 1972		
<i>Fossaria</i>	A	1	0		Burch 1989		
<i>Pisidium</i>	A	0	1		Thompson 2016		
<i>Sphaerium simile</i>	A	1	2		Mackie 2007		
<i>Naididae</i>	A	2	0		Kahn Bain 1998		
<i>Tubificinae (without hairs)</i>	A	1	4		"		
split A2 Chironomidae	L	22	19	5			
<i>Procladius (Holotanyptus)</i>	L	1	0		Ander et al 2013		
<i>Thienemannimyia group</i>	L	1	0		"		
<i>Orthocladiinae</i>	L	1	0		"	imm	N
<i>Limnophyes</i>	L	0	1		"		
<i>Cricotopus (Cricotopus)</i>	L	3	6		"		
<i>Orthocladius (Orthocladius)</i>	L	2	0		"		
<i>Parakiefferella</i>	L	3	0		"		

