

Instructions: Bold fields must be completed.

Station Summary			
Waterbody Name RACCOON CREEK		Waterbody ID Code 874000	Sample ID (YYYYMMDD-CY-FD) 20181018-54-01
Sampling Location 5 m downstream of STH 81			Database Key 169813979
SWIMS Station ID 10013075		SWIMS Station Name RACCOON CREEK - HWY 81 BRIDGE	
Latitude 42.52654	Longitude 89.19554	Lat/Long Determination Method (circle) SWIMS SWDV <u>GPS</u>	Datum Used if using GPS WGS84 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) 2	Estimated Area Sampled (m²) 2	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) 8.9	D.O. (mg/l) 10.59	D.O. (% sat.) 91.9	pH (su) 8.14	Conductivity (umhos/cm) 596	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): 10 Rubble (tennisball to basketball): 30 Gravel (ladybug to tennisball): 56
 Sand: 20 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (_____): _____

Embeddedness of Substrate at Sample Site (%) 20 **Canopy Cover at Sample Site (%)** 50

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:			
				Pasturing of Livestock			
Physical				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 <i>Kiersten Czarnecki</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted 87%
Date Processed 10/24/2019	Specimens Saved <i>Subsample archived in ABC until Jan 2023</i>	

B3: 15
 D2: 11 } 33
 E1: 7
 E3: 10 > 21
 C2: 11
 54

8(B1, A2, A1, D1, B2, C3, D3, E2) = 123 (13)

A1, C1

177

Taxa	Life Stage	Benthic Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Taeniopteryx	L	I	1	Hils 1995	imm	
Baetis brunneicolor	L	xiii	14	Klob 2016		
Heptagenia elegantula	L	I	1	"		
Maccaffertium vicarsum	L	x	10 JJD	"		
Stenacron	L	0-44	2930	"	imm	N
S. interpunctatum	L	-II	7	"		
Brachycentrus occidentalis	L	I	1	Hils 1995		
Cheumatopsyche	L	x-19	18	Hils 1995		
Hydropsyche betteni	L	-II	8	Schan Hils 1986		
Nyctophylax	L	I	1	Hils 1995		
Dubiraphia	L	II	2	Hils Schmitt 1992		
Optiosevus	L	II	2 JJD	"	imm	N
O. fastidius	L	A-III	89	"		
Heimerdromia	L	II	3	Lowt Moss 2008		
Antocha	L	II	2	Hils 1995		
Gammarus pseudolimnacus	A	8-1	36	Hils 1972		
Coeloclelea intermedia	A	II	3	Will 1972		
Naidinae	A	I	1	Barneld 1991		
Tubificonae (without hairs)	A	-II	7	Klemm 1985		
Erpobdella punctata punctata	A	I	1	"		
Sphaerium	A	I	1	Macke 2007		
Split As Chironomidae	L	II JJD				
Oronectes rustrans	A	II	2	Hobbs, Jass 1988		
O. similis	A	III	4	"		
Megacricli = Metagynephora	A	I	1	Thorp Reg 2016		
Tritenia bavaria group	L	I	1	Bede 1983		
Cladotanytarsus	L	x-III	19	Epl et al 2013		
Microtendipes pedellus group	L	I	1	"		
Paratanytarsus	L	II	2	"	imm	N
P. species A	L	II	2	Hils unpubl		
Paratendipes	L	I	1	Epl et al 2013		
Polypedilum (Polypedilum) illinoense group	L	II	2	Bolton 2012		
P. (Uresipedilum) aviceps	L	III	3	"		
Rheotanytarsus	L	x-III	13	Epl et al 2013		