

Instructions: Bold fields must be completed.

Station Summary					
Waterbody Name EAST FORK RACCOON CREEK		Waterbody ID Code 874100		Sample ID (YYYYMMDD-CY-FD) 20211012-54-02	
Sampling Location 10m downstream of Beloit Newark Rd				Database Key 292586029	
SWIMS Station ID 10009956		SWIMS Station Name EAST FORK RACCOON CREEK AT BELOIT NEWARK RD			
Latitude 42.54079	Longitude -89.13265	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) JAMES AMRHEIN			Project Name SCR LONG-TERM TREND WADEABLE REFERENCE STREAM		
Sampling Device					
<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: _____	
Habitat Sampled					
<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	
Total Sampling Time (min) 	Estimated Area Sampled (m²) 	Number of Samples in Composite 		Replicate No. _____ of _____	
Reason For Sampling					
<input type="checkbox"/> Least Impacted Reference		<input type="checkbox"/> Baseline		<input type="checkbox"/> Impact / Treatment Site	
<input type="checkbox"/> Control Site		<input checked="" type="checkbox"/> Trend		<input type="checkbox"/> Other: _____	
Water Temp. (C) 17.0	D.O. (mg/l) 7.79	D.O. (% sat.) 80.7	pH (su)	Conductivity (umhos/cm)	Transparency (cm)
Water Color			Estimated Stream Velocity (m/s)		
<input 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)		
Measured Velocity circle units m/s or f/s		Average Stream Depth of reach (m)		Average Stream Width of reach (m)	
Composition of Substrate Sampled (Percent):					
Bedrock: _____		Boulders (basketball or larger): _____		Rubble (tennisball to basketball): <u>50</u>	
Sand: _____		Clay: _____		Gravel (ladybug to tennisball): <u>50</u>	
Aquatic Macrophytes: _____		Leaf Snags: _____		Coarse Woody Debris: _____	
Other (_____): _____		Overhanging Vegetation: _____		Other (_____): _____	
Embeddedness of Substrate at Sample Site (%) _____			Canopy Cover at Sample Site (%) <u>100</u>		

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							
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 <i>Reed, Kayla</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted ① 25.0% ② 32.8%
Date Processed <i>10-24-22</i> (P)	Specimens Saved <i>125</i> (P)	<i>subsamples archived in ABC until Jan 2026</i>

4hrs

15.6 - 11

B3g 2:15 D1g 4:13
 2:7 2:34
 2:17 2:2
 2:3 11 2:1

A1g 3:5 D4
 2:12 23
 2:13
 2:45

C3g 4:12 A4g 1:8 A1 01 B1 C4 C2
 2:1:6 2:3:3 26 34 2:7 2:5
 2:3 2:2
 2:2 19 2:4
 2:1 2:3
 2:3

Taxa	Life Stage	Organism Count			Taxonomic Reference	Condition	Unique Taxon
		Rep 1	Rep 2	Rep 3			
<i>Baetis brunneicollis</i>	L	1	0		Kub 2016		
<i>B. flavistriga</i> species complex	L	0	1		"		
<i>Maccaffertium vicarium</i>	L	4	11		"		
<i>Stenacron</i>	L	2	0		MCB 2019	imm	
<i>Boyeria vimesa</i>	L	0	1		Tennessen 2019		
<i>Taeniopteryx</i>	L	1	1		MCB 2019	imm	
<i>Helicopsyche borealis</i>	L	1	0		Hils 1995		
<i>Cheumatopsyche</i>	L	36	33		MCB 2019		
<i>Hydropsyche betteni</i>	L	4	6		Schm/Hils 1986		
<i>Optioservus</i>	L	23	27		MCB 2019	imm	N
<i>O. fastidivus</i> R1 L, 23 A, 9 R2 L, 15 A, B	LA	32	23		Hils/Schm 1992		
<i>Stenelmis</i>	L	2	0		MCB 2019		N
<i>S. crenata</i>	A	0	1		Hils/Schm 1992		
<i>Tvetenia</i>	P	1	0		MCB 2019		N
<i>Hemerodromia</i>	L	4	1		"		
<i>Simulium vittatum</i> species complex 08110217	L	1	0		Ader et al 2004		
<i>Dicranota</i>	L	2	2		MCB 2019		
<i>Tipula</i>	L	2	4		"		
<i>Gammarus pseudolimnaeus</i>	A	4	5		Hils 1972		
Dugesitiidae	A	4	5		Thorp/Bog 2016		
<i>Physa</i>	A	1	2		"		
<i>Ladynex fuscus</i>	A	0	2		"		
<i>Pisidium</i>	A	1	0		"		
<i>Sphaerium striatinum</i>	A	0	1		Mackie 2007		
Naididae	A	1	1		Kath Brin 1998		
Tubificinae (without hairs)	A	0	2		"		
<i>Orconectes virilis</i>	A	0	1		Hobbs/Jess 1988		
<hr/>							
Eptat A2 Chironomidae	L	6	9	SD			
<i>Meropelopia</i>	L	1	0		Ader et al 2003		
<i>Thienemannimyia</i> group	L	1	1		"		
<i>Brillia flavifrons</i>	L	0	1		Epler 2001		
<i>Orthocladius</i> (Orthocladius)	L	3	1		Ader et al 2013		
<i>Parakiefferella</i>	L	0	1		"		
<i>Parametriocnemus</i>	L	2	0		"		
<i>Thienemannella xena</i>	L	1	0		Bolton 2012		
<i>Tvetenia bavarica</i> group	L	3	0		Bode 1983		
<i>Cladotanytarsus</i>	L	3	5		Ader et al 2013		
<i>Pneumoptera flavipes</i>	L	0	1		Bolton 2012		
<i>Polyperidum</i> (<i>Uresipidum</i>) <i>aviceps</i>	L	0	1		"		

<3 taxa, TVAL=20

