

Wadeable Macroinvertebrate Field Data Report

Instructions: **Bold fields** must be completed.

Station Summary		Waterbody ID Code	Sample ID (YYYYMMDD-CY-FD)
Waterbody Name UNNAMED		5036405	20171013-13-01
Sampling Location <i>5 m upstream of Gust Rd</i>		<i>NC-242</i>	
SWIMS Station ID 10048501		SWIMS Station Name UNNAMED TRIB (5036405) TO SUGAR RIVER AT GUST RD	
Latitude <i>43.00697</i>	Longitude <i>89.60722</i>	Lat/Long Determination Method (circle) SWIMS SWDV GPS	
Basin (WMU) SUGAR - PECATONICA		Watershed Name UPPER SUGAR RIVER	Datum Used if using GPS WGS84 or NAD83
County DANE			

Sample and Site Descriptors	Project Name
Sample Collector (Last Name, First) AMRHEIN, JAMES	SOUTH DISTRICT NC STREAM STRATIFIED SITES 2017

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 type="checkbox"/> Riffle	<input checked="" 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) <i>5</i>	Estimated Area Sampled (m ²) <i>2</i>	Number of Samples in Composite <i>1</i>	Replicate No. _____ of _____
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Reason For Sampling

<input type="checkbox"/> Least Impacted Reference	<input checked="" type="checkbox"/> Baseline	<input type="checkbox"/> Impact / Treatment Site
<input type="checkbox"/> Control Site	<input type="checkbox"/> Trend	<input type="checkbox"/> Other: _____

Water Temp. (C) <i>12.0</i>	D.O. (mg/l) <i>8.95</i>	D.O. (% sat.) <i>83.2</i>	pH (su) <i>7.82</i>	Conductivity (umhos/cm) <i>573</i>	Transparency (cm)
Water Color <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained				Estimated Stream Velocity (m/s) <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)
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Composition of Substrate Sampled (Percent):

Bedrock: _____	Boulders (basketball or larger): <i>60</i>	Rubble (tennisball to basketball): <i>20</i>	Gravel (ladybug to tennisball): _____
Sand: <i>10</i>	Clay: _____	Silt/Muck: _____	Overhanging Vegetation: _____
Aquatic Macrophytes: _____	Leaf Snags: _____	Coarse Woody Debris: _____	Other (<i>Detritus</i>): <i>10</i>
Embeddedness of Substrate at Sample Site (%) <i>0</i>		Canopy Cover at Sample Site (%) <i>10</i>	

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

Comments

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter	Kayla Wilcox	Taxonomist
Date Processed	7/30/18	Dimick, Jeffrey
		Estimated Percent of Sample Sorted
		20%
		Specimens Saved
		Subsample archived in ABL under 1 Nov 2021

67 DI=85
 53

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Baetis brunneicolor	L	x	10	Klub 2016		
B. flavisterga sp group	L	1	1	"		
^{1/3} Brachycentrus occidentalis	L	iii	3	Hils 1985		
Cheumatopsyche	L	x	10	Hils 1985		
Hydropsyche hotteni	L	1	1	Schmitt Hils 1986		
Limnephilidae	L	ii	2	Hils 1985	imm	N
Limnephilus	L	1	1	"		
Pycnopsyche	L	-	5	"		
Optiservus	L	-	5	Hils Schmitt 1982	imm	N
O. fastidius	L	iiii	4	"		
Nemerodromia	L	1	1	Coart Merr 2008		
Simulium vittatum species complex 08110217	L	1	1	Adl et al 2004		
S. fibriolatum	L	iii	3	"		
S. jenningsi species group	L	ii	2	"		
Dicranota	L	1	1	Hils 1985		
Gammarus pseudolimnoides	A	0-1	26	Hils 1972		
Caecidotea	A	x-	15	Will 1972	sem/imm	
Naididae	A	-iiii	9	Birnfeld 1981		Y
Enchytraeidae	A	ii	2	Thorp Reg 2016		
Tubificidae (without hairs)	A	-iiii	9	Klemm 1985		
Onchidaris serpentina	A	ii	2	"		
Lumbriculus	A	1	1	Thorp Reg 2016		
Physa	A	ii	2	"		
split As Chironomidae	L	x-211				
Corynoneura	L	1	1	Ander+3 2013		
Tanyptera 08270000	L	ii	2	Cranston 2013	imm	N
Cosmetoperla 08270700	L	1	1	Cranston 2013		
Metoperla	L	1	1	"		
Thienemannimyia group	L	x	10	"	not ident/imm	N
Orthocladius 08300000	L	iii	3	Cranston 2013	imm	N
Brillia	L	1	1	Ander+3 2013	imm	
Parametopia	L	xii	12	"		
Parametopia	L	-	5	"		
Thienemannella	L	1	1	"	imm	N
Th. xena	L	iii	3	Balton 2012		
Orthocladius (Orthocladius)	L	ii	2	Ander+3 2013		
Cricotopus/Orthocladius	L	ii	2	Ferr et al 2008	imm	N

<3 taxa, TUAL ≤ 2.0

