

**Wadeable Macroinvertebrate
 Field Data Report**

Instructions: Bold fields must be completed.

Station Summary			
Waterbody Name UNNAMED		Waterbody ID Code 965500	Sample ID (YYYYMMDD-CY-FD) 20171108-22-01
Sampling Location <i>10 m Downstream of Closing Dam Rd NC-241</i>			Database Key 151303090
SWIMS Station ID 223207		SWIMS Station Name UNNAMED CREEK 34-12 (965500) - CLOSING DAM RD.	
Latitude <i>42.77564</i>	Longitude <i>91.06376</i>	Lat/Long Determination Method (circle) SWIMS SWDV <u>GPS</u>	Datum Used if using GPS WGS84 or NAD83
Basin (WMU) GRANT - PLATTE		Watershed Name MISSISSIPPI RIVER	County GRANT

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

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) <i>2</i>	Estimated Area Sampled (m ²) <i>1</i>	Number of Samples in Composite <i>1</i>	Replicate No. _____ of _____
---------------------------------------	--	--	------------------------------

Reason For Sampling

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

Water Temp. (C) <i>6.7</i>	D.O. (mg/l) <i>11.68</i>	D.O. (% sat.) <i>95.6</i>	pH (su) <i>7.83</i>	Conductivity (umhos/cm) <i>654</i>	Transparency (cm)
-------------------------------	-----------------------------	------------------------------	------------------------	---------------------------------------	-------------------

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)
---	-----------------------------------	-----------------------------------

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): *50* Gravel (ladybug to tennisball): *50*
 Sand: _____ Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (_____): _____
 Embeddedness of Substrate at Sample Site (%) *0* 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			
Physical				Point Source - Specify:			
Bank Erosion				Pasturing of Livestock			
Channelization: - Upstream				Runoff: - Barnyard			
- Downstream				- Construction			
Hydraulic Scour / Channel Incision				- Cropland			
Impoundment: - Upstream				- Urban			
- Downstream				Septic Systems			
Low Flow				Tile Drainage - Organic Soils			
Sedimentation				- Mineral Soils			
Sludge				Springs			
Thermal				Tributary(s)			
Turbidity				Wetland			
Other - Specify:				Other - Specify:			

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter <i>Kayla Cox</i>	Taxonomist <i>Demick Jeffrey</i>	Estimated Percent of Sample Sorted <i>130%</i>
Date Processed <i>8/2/18</i>	Specimens Saved <i>Subsample archived in ABL until Nov 2021</i>	<i>10%</i>

BI=104

	Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
1/2	Clippelia elio	L	II	2	Hils 1995		
	Allocaeneca	L	I	1	"		
	Baetidae	L	III	3	Klob 2016	dam/imm	Y
	Baetis brunneicolar	L	X-III	19	"		
1/3	Maccaffertium vicarium	L	I	1	"		
	Cnemidopsycha	L	I	1	Hils 1995		
	Hydropsyche	L	I	1	"	imm	N
	H. betteni	L	I	1	Schm Hils 1986		
3/4	Diplectrona modesta	L	I	1	Hils 1995		
	Ceratopsycha glossanae	L	-	5	Schm Hils 1986		
	Antiservus	L	II	2	Hils Schm 1992	imm	N
	O. fastidius L.10 A.1	L/A	XI	11	"		
	Helephus striatus	A	III	4	"		
	Simulium vittatum species complex 08110217	L	0	2	Adl et al 2004		
	Gammarus pseudocolumbens	A	9-III	43	Hols 1972		
	Caecidotea intermedia	A	8-11	72	Will 1972		
	Dugesiiidae	A	-III	9	Thorp Poy 2016		
	Spid A3 Chironomidae	L	-				
	Meroneilonia	L	II	2	Cran Epi 2013		
	Orthocladiinae 08300000	L	II	2	Cranston 2013	imm	N
	Eukiefferiella claripennis group	L	III	3	Andert S 2013		
1/4	Parametriocnemus	L	-II	7	"		
	Tvetenia bavaria group	L	-II	7	Isode 1983		
	Cricotopus/Octocladius	L	I	1	Ferr et al 2008	imm	
	Chironominae 08330000	L	II	2	Cranston 2013	imm	N
	Paratanytarsus longistylus	L	II	2	Epi et al 2013		
	Polypedilum (Uresipedilum) aviceps	L	II	2	Bolton 2012		
	P. (U.) flavum	L	II	2	"		

> 3 taxa, TVAL ≤ 2.0

114 (0.1 x 188)