

Instructions: Bold fields must be completed.

Station Summary						
Waterbody Name UNNAMED			Waterbody ID Code 1264000		Sample ID (YYYYMMDD-CY-FD) 20190930-11-02	
Sampling Location 70 m DS ST14 51					Database Key 212562268	
SWIMS Station ID 10032674		SWIMS Station Name S. BR. HINKSON CREEK AT US HWY. 51				
Latitude 43.40700	Longitude -89.40030	Lat/Long Determination Method (circle) SWIMS SWDV <u>GPS</u>			Datum Used if using GPS <u>WGS84</u> or NAD83	
Basin (WMU) LOWER WISCONSIN		Watershed Name LAKE WISCONSIN			County COLUMBIA	
Sample and Site Descriptors						
Sample Collector (Last Name, First) KIMBERLY KUBER				Project Name SOUTH DISTRICT NC STREAM STRATIFIED SITES 2019		
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 (m <sup>2</sup> ) /	Number of Samples in Composite /			Replicate No. _____ of _____	
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) 19.6	D.O. (mg/l) 8.84	D.O. (% sat.) 96.7	pH (su) 7.93	Conductivity (umhos/cm) 429.8	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 type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input checked="" 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>		Gravel (ladybug to tennisball): <u>30</u>
Sand: <u>20</u>		Clay: _____		Silt/Muck: _____		Overhanging Vegetation: _____
Aquatic Macrophytes: _____		Leaf Snags: _____		Coarse Woody Debris: _____		Other (____): _____
Embeddedness of Substrate at Sample Site (%) <u>10</u>				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
<b>Biological</b>				<b>Chemical</b>			
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:				<b>Sources of Stream Impacts</b>			
				Bank Erosion			
				Point Source - Specify:			
<b>Physical</b>				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 *NC-242*

Special Instructions for Laboratory

**For Lab Use Only**

Sample Sorter <i>Logan Cutler</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>17%</i>
Date Processed <i>10/1/2020</i>	Specimens Saved <i>131 subsample archived in ABC until Nov 2023</i>	

*30 B1Q2,3      24 A3Q2,4      36 B1Q1,4      13 A3Q1,3      13 E1Q4      15 E1Q3*

Taxa	Life Stage	Benthic Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Baetis brunneicolar</i>	L	54	32	Klüh 2016		
<i>B. flavistriga</i> species complex	L	1	1	"		
<i>Brachycentrus occidentalis</i>	L	1	1	Hils 1985		
<i>Cheumatopsyche</i>	L	11	2	Merlumm B 2019		
<i>Hydropsyche</i>	L	11	2	Hils 1985	imm	N
<i>H. betterii</i>	L	0-1111	29	Schm Hils 1986		
<i>Optroservus</i>	L	1	1	Merlumm B 2019	imm	N
<i>O. fastiditus</i>	L	2111	13	Hils Schm 1992		
<i>Stenelmis</i>	L	-1	6	Merlumm B 2019		
<i>Simulium</i> <u>Steber SC</u>	P	1	1	"		N
<i>S. tuberosum</i> species complex	L	11	2	Adlata (2004)		
<i>S. vittatum</i> species complex 08110217	L	111	3	"		
<i>Diocanota</i>	L	1	1	Merlumm B 2019		
<i>Gammarus pseudolimnoides</i>	A	111	3	Hils 1972		
<i>Caecidotea intermedia</i>	A	0-111	28	Will 1972		
<i>Dugesidae</i>	A	1111	4	Thorp Pog 2016		
<i>Pisidium</i>	A	1	1	"		
<i>Tubificinae</i> (without hairs)	A	1	1	Kath B. m 1998		
<i>Epebrella punctata punctata</i>	A	1	1	Klemm 1985		
<i>Glossiphonia elegans = G. complanata</i>	A	1	1	Thorp Pog 2016		
<del><i>Spiliza Chironomidae</i></del>	<del>L</del>	<del>111111</del>				
<i>Helophlebia</i>	L	1	1	And et al 2013		
<i>Parametocnemus</i>	L	1	1	"		
<i>Chironominae</i> 08330000	L	1	1	"	not det	Y
<i>Rheotanytarsus</i>	L	1111	4	"		

<3 taxa. TVAL ≤ 2.0

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Year	Psychologist	Major Contribution / Theory
1879	Wilhelm Wundt	Established the first psychology laboratory in Leipzig, Germany.
1890	William James	Published 'Principles of Psychology', emphasizing the study of conscious experience and the concept of 'stream of consciousness'.
1903	Sigmund Freud	Introduced psychoanalysis, focusing on the unconscious mind and its influence on behavior.
1913	John B. Watson	Established behaviorism, arguing that behavior is learned from the environment through conditioning.
1918	Edward Thorndike	Developed the theory of learning through trial and error, known as the Law of Effect.
1924	Ivan Pavlov	Discovered classical conditioning with his experiments on dogs, demonstrating how stimuli can elicit specific responses.
1927	Leta S. Stetter Dinwiddie	Conducted the first experimental study on the effects of maternal deprivation on children.
1929	Carl Jung	Developed analytical psychology, introducing the concepts of the collective unconscious and archetypes.
1930	Karl Lashley	Conducted experiments on the role of the brain in learning, leading to the concept of equipotentiality.
1936	Walter Dill Miles	Published 'The Psychology of Women', one of the first major textbooks on women's psychology.
1939	John Money	Developed the concept of gender identity and the theory of gender role.
1942	Abraham Maslow	Proposed the hierarchy of needs, a theory of human motivation.
1943	Walter Dill Miles	Published 'The Psychology of Women', one of the first major textbooks on women's psychology.
1947	Elizabeth Loftus	Discovered the malleability of memory, demonstrating how memories can be implanted or distorted.
1951	William Goldstein	Developed Gestalt psychology, emphasizing the study of the whole and its properties that are not predictable from its parts.
1952	David Wechsler	Developed the Wechsler Adult Intelligence Scale (WAIS), a widely used intelligence test.
1953	Ulrich Neisser	Published 'Cognition', a landmark book that marked the beginning of the cognitive revolution.
1954	Frederick C. Imiter	Conducted research on the effects of maternal deprivation on children, similar to Leta S. Dinwiddie's work.
1956	George Miller	Proposed the 'magical number seven, plus or minus two' concept regarding the limits of short-term memory.
1957	Paul Popenoe	Published 'The Psychology of Women', another major textbook on women's psychology.
1958	Albert Ellis	Developed Rational Emotive Therapy (RET), a form of cognitive-behavioral therapy.
1959	Richard Gregory	Proposed the concept of 'perceptual learning', suggesting that perception is a skill that improves with practice.
1960	Leona Tyler	Published 'The Psychology of Women', another major textbook on women's psychology.
1963	Baron Reisberg	Developed the concept of 'phantom limb' sensation, explaining why amputees often feel the presence of their missing limb.
1964	Walter Dill Miles	Published 'The Psychology of Women', another major textbook on women's psychology.
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1987	Walter Dill Miles	Published 'The Psychology of Women', another major textbook on women's psychology.
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1999	Walter Dill Miles	Published 'The Psychology of Women', another major textbook on women's psychology.
2002	Walter Dill Miles	Published 'The Psychology of Women', another major textbook on women's psychology.
2005	Walter Dill Miles	Published 'The Psychology of Women', another major textbook on women's psychology.
2008	Walter Dill Miles	Published 'The Psychology of Women', another major textbook on women's psychology.
2011	Walter Dill Miles	Published 'The Psychology of Women', another major textbook on women's psychology.
2014	Walter Dill Miles	Published 'The Psychology of Women', another major textbook on women's psychology.
2017	Walter Dill Miles	Published 'The Psychology of Women', another major textbook on women's psychology.
2020	Walter Dill Miles	Published 'The Psychology of Women', another major textbook on women's psychology.