

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

Station Summary					
<b>Waterbody Name</b> UNNAMED		<b>Waterbody ID Code</b> 844700		<b>Sample ID (YYYYMMDD-CY-FD)</b> 20190930-11-04	
<b>Sampling Location</b> Englewood Road				<b>Database Key</b> 214892015	
<b>SWIMS Station ID</b> 10052557		<b>SWIMS Station Name</b> UNNAMED TRIB (844700) TO N. BR. CRAWFISH RIVER AT ENGLEWOOD RD			
<b>Latitude</b> 43.42770	<b>Longitude</b> -89.13644		<b>Lat/Long Determination Method (circle)</b> SWIMS SWDV <u>GPS</u>		<b>Datum Used if using GPS</b> <u>WGS84</u> or NAD83
<b>Basin (WMU)</b> UPPER ROCK		<b>Watershed Name</b> UPPER CRAWFISH RIVER		<b>County</b> COLUMBIA	
Sample and Site Descriptors					
<b>Sample Collector (Last Name, First)</b> KIMBERLY KUBER			<b>Project Name</b> SOUTH DISTRICT NC STREAM STRATIFIED SITES 2019		
<b>Sampling Device</b>					
<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: _____	
<b>Habitat Sampled</b>					
<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	
<b>Total Sampling Time (min)</b> 1	<b>Estimated Area Sampled (m<sup>2</sup>)</b> 1		<b>Number of Samples in Composite</b> 1		<b>Replicate No. _____ of _____</b>
<b>Reason For Sampling</b>					
<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: _____	
<b>Water Temp. (C)</b> 20.5	<b>D.O. (mg/l)</b> 7.81	<b>D.O. (% sat.)</b> 87.0	<b>pH (su)</b> 7.85	<b>Conductivity (umhos/cm)</b> 471	<b>Transparency (cm)</b>
<b>Water Color</b>			<b>Estimated Stream Velocity (m/s)</b>		
<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained			<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)		
<b>Measured Velocity</b> circle units m/s or f/s		<b>Average Stream Depth of reach (m)</b>		<b>Average Stream Width of reach (m)</b>	
<b>Composition of Substrate Sampled (Percent):</b>					
Bedrock: _____		Boulders (basketball or larger): _____		Rubble (tennisball to basketball): <u>90</u>	
Sand: _____		Clay: _____		Gravel (ladybug to tennisball): <u>10</u>	
Aquatic Macrophytes: _____		Silt/Muck: _____		Overhanging Vegetation: _____	
Leaf Snags: _____		Coarse Woody Debris: _____		Other (____): _____	
<b>Embeddedness of Substrate at Sample Site (%)</b> <u>N/A</u>			<b>Canopy Cover at Sample Site (%)</b> <u>10</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:			
				Pasturing of Livestock			
<b>Physical</b>				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 *NC-338*

Special Instructions for Laboratory

**For Lab Use Only**

Sample Sorter <i>Eric Naas</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>116.7%</i>
Date Processed <i>10/11/2020</i>	Specimens Saved <i>Subsample archived in ABC until Nov 2023</i>	
<i>C3Q1</i>	<i>B1Q3</i>	<i>C3Q4</i>
<i>15</i>	<i>17</i>	<i>7</i>
<i>B1Q2</i>	<i>C3Q2</i>	<i>B1Q4</i>
<i>14</i>	<i>12</i>	<i>9</i>
<i>C3Q3</i>	<i>B1Q1</i>	<i>D1Q1</i>
<i>7</i>	<i>17</i>	<i>15</i>
<i>A2Q2</i>	<i>14</i>	<i>=127</i>

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Baetis	L	11	2	Merrillum B 2019	dam	N
B. intercalaris	L	1	1	Klub 2016		
Caenis punctata	L	1	1	"		
Stenocran	L	0-11	37	Merrillum B 2019	imm	
Coenagrionidae <del>Coenagrionidae</del>	L	1	1	"	imm	
Cheumatopsyche	L	xiii	14	"		
Hydropsyche betteni	L	11	2	Schmitts 1986		
Deceis ciliarascens	L	11	2	Floyd 1995		
Psychomyia flavida	L	1	1	Hils 1995		
Dubiraphia quadrimaculata	A	11	2	Hils Schmitt 1992		
Optroservus fastidius	L	1	1	"		
Cricotopus	P	1	1	Merrillum B 2019	dam	N
Tuctenia	P	1	1	"		
Nemerochroma	L	1	1	"		
Antocha	L	11	2	"		
Gammarus pseudolimnaeus	A	0-	25	Hils 1972		
Hyalella azteca	A	-11	7	Sorek et al 2015		
Laevapex fuscus	A	11	2	Thorp Reg 2016		
Physa	A	1	1	"		
Sphaerium	A	11	2	"		
Tubificinae (without hairs)	A	11	2	Kahn Brin 1998		
Oreoneates mustros	A	1	1	Hobbs Jass 1988		
<del>split to Chironomidae</del>	L	0-10				
Microtendipes pedellus group	L	LVI	1	And et al 2013		
Rhyotanytarsus	L	XII	12	"		
Stenochironomus	L	1	1	"		
Thienemannimyia group	L	III	3	"	imm	
Orthocladiinae 0830000	L	L	1	"	imm	N
Cricotopus (Cricotopus) tremulus group	L	1	1	"		
Nannocladius (Nannocladius) spiniferus	L	1	1	Bolton 2012		
Orthocladius (Orthocladius)	L	1	1	And et al 2013		
Parametricnemus	L	1	1	"		
Microsestera	L	1	1	"		
Phaenosestera obediens group	L	1	1	Epler 2001	imm	
Polypedilum (Polypedilum) frigidum	L	1	1	Bolton 2012		
P.(P.) illinoense group	L	1	1	"		
P.(P.) (Unespedilum) flavum	L	III	4	"		

