

Instructions: Bold fields must be completed.

Station Summary						
Waterbody Name BARK RIVER			Waterbody ID Code 813500		Sample ID (YYYYMMDD-CY-FD) 20181019-28-02	
Sampling Location <i>20 m upstream of Green Isle Drive</i>					Database Key 169497099	
SWIMS Station ID 10039253		SWIMS Station Name BARK RIVER AT GREEN ISLE DR				
Latitude <i>42.92720</i>	Longitude <i>88.68533</i>	Lat/Long Determination Method (circle) SWIMS SWDV GPS			Datum Used if using GPS WGS84 or NAD83	
Basin (WMU) LOWER ROCK		Watershed Name BARK RIVER			County JEFFERSON	
Sample and Site Descriptors						
Sample Collector (Last Name, First) AMRHEIN, JAMES				Project Name SOUTH DISTRICT NC STREAM STRATIFIED SITES 2018		
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 type="checkbox"/> Run		<input type="checkbox"/> Pool		
<input type="checkbox"/> Other		<input type="checkbox"/> Shoreline Composite		<input checked="" type="checkbox"/> Proportionally-Sampled Habitat		
<input type="checkbox"/> Littoral Zone		<input type="checkbox"/> Profundal Zone		<input type="checkbox"/> Wetland		
Total Sampling Time (min) <i>3</i>	Estimated Area Sampled (m ²) <i>3</i>	Number of Samples in Composite <i>1</i>			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) <i>8.4</i>	D.O. (mg/l) <i>10.39</i>	D.O. (% sat.) <i>88.7</i>	pH (su) <i>8.17</i>	Conductivity (umhos/cm) <i>647</i>		Transparency (cm)
Water Color				Estimated Stream Velocity (m/s)		
<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)		
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): <i>10</i>		Rubble (tennisball to basketball): <i>30</i>		Gravel (ladybug to tennisball): <i>30</i>
Sand: _____		Clay: _____		Silt/Muck: _____		Overhanging Vegetation: <i>20</i>
Aquatic Macrophytes: _____		Leaf Snags: <i>10</i>		Coarse Woody Debris: _____		Other (____): _____
Embeddedness of Substrate at Sample Site (%) <i>0</i>				Canopy Cover at Sample Site (%) <i>0</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 <i>Jovanna Erickson</i>	Taxonomist <i>Dimrock, Jeffrey</i>	Estimated Percent of Sample Sorted <i>100%</i>
Date Processed <i>9-8-19</i>	Specimens Saved <i>Subsample archived in ABE until Nov 2022</i>	

E1 | A2 | E3 | C3 | 35 | 47 | 22 | 36
16 | 6 | 11 | 10
 43 *Total: 183*
 need 18.6 grids = Full Grid Sort

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Taeniopteryx	L	1	1	Hils 1985	imm	
Baetis intercalaris	L	x-1111	20	Klb 2016		
Callibaetis	L	1	1	"	dm	
Acentrella parvula	L	111	3	"		
Isaean arka	L	-1111	9	"		
Teloganopsis deficiens	L	11	2	"		
Maccaffertium	L	-1111	9	"	imm	N
M. terminatum	L	111	3	"		
Anthopotamus	L	11	2	"	imm	
Tricorythodes	L	-	5	"		
Brachycentrus numerosus	L	88-1	76	Hils 1985		
Idiocapryche borealis	L	111	5	Hils 1985		
Cheumatopsyche	L	111	3	"		
Hydropsyche similans	L	1	1	Schm Hils 1986		
Hydroptila	L	1	1	Hils 1985		
Limnephilidae	L	-1111	9	"	imm	
Chemama obscura	L	1111	4	Hils 1982		
Stenelmis	L	111	3	Hils Schm 1992		
S.-crenata	A	1	1	"		
S. grossa	A	1	1	"		
Ephydriidae	P	1	1	Meir Webb 2008		
Simulium luggeri	L	1	1	Adl et al 2004		
Ithabella spinicauda	A	-11111	12	Sowek et al 2015		
Dubiraphia	L	1	1	Hils Schm 1992		
Craugastrea pseudogracilis group	A	1	1	Hils 1972		
Craugastrea	A	1	1	Will 1972	imm	
Tubificinae (without hairs)	A	111	3	Klemm 1985		Y
Branchiura sewerbyi	A	1	1	"		
Fossaria	A	1	1	Brown 1981		
Physa	A	111	3	Thorp & 2016		
Hydrobiidae	A	111	3	Broth 1991		
Sphaerium	A	11	2	Mackie 2007		
Tipula	L	1	1	Hils 1985		
Limnophyes	L	11	2	And + 3 2013		
Lopescladius	L	1	1	"		
Orthocladius (Orthocladius) oliveri	L	1	1	Bolton 2012		
Thienemanniella xena	L	1	1	"		

