

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name NORTH BRANCH CRAWFISH RIVER	Waterbody ID Code 843100	Sample ID (YYYYMMDD-CY-FD) 20190930-11-05
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Sampling Location 43.42836 CTM 2	Database Key 214892020
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SWIMS Station ID 113141	SWIMS Station Name CRAWFISH RIVER-NORTH BRANCH - HWY Z
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Latitude 43.42836	Longitude -89.08930	Lat/Long Determination Method (circle) SWIMS <u>SWDV</u> GPS	Datum Used if using GPS <u>WGS84</u> or NAD83
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Basin (WMU) UPPER ROCK	Watershed Name UPPER CRAWFISH RIVER	County COLUMBIA
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Sample and Site Descriptors

Sample Collector (Last Name, First) JAMES AMRHEIN	Project Name SOUTH DISTRICT NC STREAM STRATIFIED SITES 2019
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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) 1	Estimated Area Sampled (m²) 1	Number of Samples in Composite 1	Replicate No. _____ of _____
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Reason For Sampling

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

Water Temp. (C) 18.3	D.O. (mg/l) 8.36	D.O. (% sat.) 88.8	pH (su) 7.98	Conductivity (umhos/cm) 500	Transparency (cm)
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Water Color <input type="checkbox"/> Clear <input type="checkbox"/> Turbid <input checked="" 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)
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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): _____ Rubble (tennisball to basketball): _____ Gravel (ladybug to tennisball): _____
 Sand: _____ Clay: _____ Silt/Muck: _____ Overhanging Vegetation: 80
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: 20 Other (_____): _____

Embeddedness of Substrate at Sample Site (%) N/A **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			
				Point Source - Specify:			
				Pasturing of Livestock			
Physical				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-325

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter	Cowh, Natalie	Taxonomist	Dimick, Jeffrey	Estimated Percent of Sample Sorted	37.5
Date Processed	Oct 1 st	Specimens Saved	Subsample archived in ABC until Nov 2023		

1C-35
 1B-28

E3
 A3
 B3

E2 > 123

186

Taxa	Life Stage	Benthic Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Baetis brunneicolar</i>	L	III	8	Klub 2016		
<i>B. intercalaris</i>	L	0-11	27	"		
<i>B. flavistriga</i> species complex	L	11	2	"		
<i>Labiobaetis frodalis</i>	L	I	1	"		
<i>L. propinquus</i>	L	0-11	22	"		
<i>Maccaffertium mediopunctatum</i>	L	I	1	"		
^{1/3} <i>M. vicarium</i>	L	III	3	"		
<i>Stenacron</i>	L	11	2	Merrillum B 2019	imm	
^{2/6} <i>Taeniopteryx</i>	L	III	3	"	imm	
<i>Belostomatidae Pluricorneum</i>	A	I	1	Hils 1984a		
<i>Trichocorixa calva</i>	A	I	1	"		
<i>Ranatra nigra</i>	A	I	1	"		
<i>Neopha strigata</i>	A	I	1	"		
^{3/7} <i>Brachycentrus numerosus</i>	L	I	1	Hils 1985		
<i>Ceratopsycha branta</i>	L	I	1	Schmitt Hils 1986		
<i>Cheumatopsycha</i>	L	11	2	Merrillum B 2019		
<i>Hydropsyche betterii</i>	L	-11	7	Schmitt Hils 1986		
<i>Elophila</i>	L	I	2	Merrillum B 2019		
<i>Simulium</i> (with n=1, s=12)	P	XIII	13	"		N
<i>S. jenningsi</i> species group	L	I	1	Adl et al 2004		
<i>S. venustum</i> species complex	L	8-11	66	"		
<i>S. vittatum</i> species complex 08110217	L	10-11	8	"		
<i>Orthocladiinae</i> 08300001	P	I	1	Merrillum B 2019	dam	N
<i>Gammarus pseudolimnoides</i>	A	III	3	Hils 1972		
<i>Hyalella azteca</i>	A	-11	7	Sawicki et al 2015		
<i>Caecidotea</i>	A	I	1	Thorp Reg 2016	imm	
<i>Fossarisa</i>	A	III	4	Thorp et al 1991		
Split Az Chironomidae	L	-11				
^{1/3} <i>Cratichneumon (Cratichneumon) bicinctus</i> group	L	I	1	And et al 2013		
<i>Limnephylax</i>	L	I	1	"		
<i>Polypedium (Polypedium) illinoense</i> group	L	III	4	Britton 2012		
<i>P. (Pseudopodium) flavum</i>	L	I	1	"		
<i>Rhyacotarsus</i>	L	I	1	And et al 2013		

3 taxa, TVAL ≤ 2.0
 7 < (0.1 × 165)