

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name RUSH RIVER	Waterbody ID Code 2440300	Sample ID (YYYYMMDD-CY-FD) 20180926-48-01
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Sampling Location US ~ 50m from bridge (HWY 10 bridge)	Database Key 168358541
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SWIMS Station ID 10008909	SWIMS Station Name 6 - RUSH RIVER
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Latitude	Longitude	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
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Basin (WMU) LOWER CHIPPEWA	Watershed Name RUSH RIVER	County PIERCE
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Sample and Site Descriptors

Sample Collector (Last Name, First) Chris Williger, Mycal Raleigh	Project Name WEST DISTRICT NC STREAM STRATIFIED SITES 2018
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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 min	Estimated Area Sampled (m²) 1.5	Number of Samples in Composite 1	Replicate No. 1 of 1
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Reason For Sampling

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

Water Temp. (C)	D.O. (mg/l)	D.O. (% sat.)	pH (su)	Conductivity (umhos/cm)	Transparency (cm)
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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)
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Measured Velocity circle units m/s or f/s	Average Stream Depth of reach (m) 0.25	Average Stream Width of reach (m) 17
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): 10 Rubble (tennisball to basketball): 20 Gravel (ladybug to tennisball): 40
 Sand: 30 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (): _____

Embeddedness of Substrate at Sample Site (%) 20 **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	N	U	Chlorine	U	U
- Filamentous Algae	N	U	Dissolved Oxygen	U	U
- Planktonic Algae	N	U	Nutrients (P, N...)	U	U
Iron Bacteria	N	U	Toxics: - Inorganic (Metals)	U	U
Macrophytes	N	U	- Organic (PCBs, pesticides...)	U	U
Slimes	N	U	Other - Specify:		
Other - Specify:			Sources of Stream Impacts		
			Bank Erosion	PL	U
			Point Source - Specify:	U	U
Physical			Pasturing of Livestock	N	U
Bank Erosion	PL	U	Runoff: - Barnyard	N	U
Channelization: - Upstream	N	N	- Construction	N	U
- Downstream	N	N	- Cropland	PL	PL
Hydraulic Scour / Channel Incision	N	U	- Urban	N	U
Impoundment: - Upstream	N	N	Septic Systems	U	U
- Downstream	N	N	Tile Drainage - Organic Soils	U	U
Low Flow	N	N	- Mineral Soils	U	U
Sedimentation	N	PL	Springs	U	U
Sludge	N	U	Tributary(s)	N	U
Thermal	N	N	Wetland	N	PL
Turbidity	N	N	Other - Specify:		
Other - Specify:					

Comments

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter Loann Cutler	Taxonomist Dimick, Jeffrey	Estimated Percent of Sample Sorted 13%
Date Processed 9/12/19	Specimens Saved 56+80 = 136	

DZ DJ Total
 2hr 1.5hr

Subsample archived in ASL unit 1 Dec 2022

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Baetidae	L	I	1	Kuh 2016	dam	N
Baetis	L	III	3	"	dam	N
B. brunneolar	L	II	2	"		
B. tricaudatus	L	-I	6	"		
B. flavistriga species complex	L	XI	11	"		
Ismaean arcta	L	I	1	"		
Ephemerella	L	0	20	"	imm	N
E. excrucians	L	-III	10			
Protophyla	L	XIII	13	Hols 1995		
Helicopsyche borealis	L	I	1	"		
Cheumatopsyche	L	I	1	"		
Hydropsyche betteni	L	I	1	Schm Nils 1986		
Ceratopsyche albedra	L	III	3	"		
C. boreata	L	"	2	"		
C. glossanae	L	-III	8	"		
Hydroptila	L	I	1	Hols 1995		
Ontosemus	L	-IV	10	Hols Schm 1992	imm	N
O. fastidius	L	-I	6	"		
Probezzia	L	I	1	Nils 1985		
Hemerodromia	L	I	1	Court Mead 2008		
Simulium tuberosum species complex	L	I	1	Adl et al 2004		
Simulium stuberi	P	I	1	"		N
Parametrocnemus	P	I	1	Ferret al 2008		
Tvetenia	P	I	1	"		N
Gammarus pseudolimnacus	A	III	3	Hols 1972		
Sperchonopsis	A	III	3	Pluch 1984		
Naidinae	A	I	1	Brn Geld 1991		
split A3 Chironomidae	L	1000				
Orthocladinae 08300000	L	"	2	Garston 2013	dam/imm	N
Eukroetteriella clarypennis group	L	I	1	Andt 3 2013		
Eu. devonica group	L	III	3	"		
Orthocladus (Orthocladus)	L	I	1	"		
Cricotopus (Cricotopus) trifascia group	L	"	2	"		
Tvetenia bavarica group	L	I	1	Bode 1983		
Cladotanytarsus	L	III	3	Epl et al 2013		
Microtendipes pedellus group	L	XIII	13	"		
Paracladopelma	L	"	2	"		

