State of Wisconsin
Department of Natural Resources
PO Box 7291, Madison WI 53707-7291
dnr.w i.gov

Wadeable Macroinvertebrate Field Data Report

Form 3200-081 (R 8/14)

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

Station Summary

Waterbody Name	**Waterbody ID Code**	**Sample ID (YYYYMMDD-CY-FD)**
RUSH RIVER	2440300	20171115-56-01

Sampling Location: DS of bridge ~110m, past Beaver dams

Database Key: 151068289

SWIMS Station ID	**SWIMS Station Name**
10008921	19 - RUSH RIVER - 18TH AVE. [19]

Latitude	**Longitude**	**Lat/Long Determination Method (circle)**	**Datum Used if using GPS**
		SWIMS SWDV GPS	WGS84 or NAD83

Basin (WMU)	**Watershed Name**	**County**
LOWER CHIPPEWA	RUSH RIVER	SAINT CROIX

Sample and Site Descriptors

Sample Collector (Last Name, First)	**Project Name**
MYCAL RALEIGH	WEST DISTRICT NC STREAM STRATIFIED SITES 2017

Sampling Device

- [X] D-Frame Kick Net
- [ ] Surber Sampler
- [ ] Eckman
- [ ] Ponar
- [ ] Artificial Substrate
- [ ] Hess Sampler
- [ ] Other: _____

Habitat Sampled

- [X] Riffle
- [ ] Run
- [ ] Pool
- [ ] Other
- [ ] Shoreline Composite
- [ ] Proportionally-Sampled Habitat
- [ ] Littoral Zone
- [ ] Profundal Zone
- [ ] Wetland

Total Sampling Time (min)	**Estimated Area Sampled (m^2)**	**Number of Samples in Composite**	**Replicate No.** ___ **of** ___
0.5 min (30s)	$1 m^2$	1	1 of 1

Reason For Sampling

- [ ] Least Impacted Reference
- [ ] Baseline
- [ ] Impact / Treatment Site
- [ ] Control Site
- [ ] Trend
- [X] Other: NCSR

Water Temp. (C)	**D.O. (mg/l)**	**D.O. (% sat.)**	**pH (su)**	**Conductivity (umhos/cm)**	**Transparency (cm)**

Water Color

- [X] Clear
- [ ] Turbid
- [ ] Stained

Estimated Stream Velocity (m/s)

- [X] Slow (< 0.15 m/s)
- [ ] Moderate (0.15 m/s - 0.5 m/s)
- [ ] 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)**
	.15	~1m

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 20 Gravel (ladybug to tennisball): 80

Sand: _____ Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____

Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (_____): _____

Embeddedness of Substrate at Sample Site (%) 0 **Canopy Cover at Sample Site (%)** 0

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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
Biological		
Algae: - Diatoms / Periphyton	N	U
- Filamentous Algae	N	U
- Planktonic Algae	N	U
Iron Bacteria	N	U
Macrophytes	N	U
Slimes	N	U
Other - Specify:		
Physical		
Bank Erosion	N	U
Channelization: - Upstream	N	U
- Dow nstream	N	U
Hydraulic Scour / Channel Incision	N	U
Impoundment: - Upstream	N	U
- Dow nstream	N	U
Low Flow	N	U
Sedimentation	PL	U
Sludge	N	U
Thermal	U	U
Turbidity	PL	U
Other - Specify:		

Factors that may be influencing Water Resource Integrity	Local	Water-shed
Chemical		
Chlorine	U	U
Dissolved Oxygen	U	U
Nutrients (P, N...)	U	U
Toxics: - Inorganic (Metals)	U	U
- Organic (PCBs, pesticides...)	U	U
Other - Specify:		
Sources of Stream Impacts		
Bank Erosion	N	U
Point Source - Specify: Beavers	PH	U
Pasturing of Livestock	PL	U
Runoff: - Barnyard	N	U
- Construction	N	U
- Cropland	PL	U
- Urban	N	U
Septic Systems	U	U
Tile Drainage - Organic Soils	U	U
- Mineral Soils	U	U
Springs	U	U
Tributary(s)	PL	U
Wetland	U	U
Other - Specify:		

Comments Upstream of beaver dams, stream has very slow velocity and has areas of heavy sedimentation. Water has stained dark appearance above dam. DS of dam water clears, more velocity and exposed gravel/rubble. Good woodland buffer on both sides (>30-100+m) then cropland and pasture

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter: Kyla Wilcox	Taxonomist: Dimick, Jeffrey	Estimated Percent of Sample Sorted: 10/10
Date Processed: 8/16/18	Specimens Saved: Subsample archived in ABL until Dec 2020	

BI = 128

Wisconsin Department of Natural Resources
ABL SampleNum: **20171115-56-01**
Taxonomist: Dimick, Jeffrey

Waterbody: **Rush River**
SWIMS Database Key: **151068289**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Brotis flavistriga group	L	I	1	Klvb 2016		
Rheumatopsyche	L	XII	12	Wils 1995		
Hydropsyche betteni	L	III	3	Schm Wils 1986		
Ceratopsyche slossonae	L	I	1	"		
Orthoserus	L	III	3	Wils Schm 1992	imm	N
O. fastidius	L	-I	6	"		
Stenelmis crenata	A	I	1	"		
Simulium vittatum species complex 0803217	L	-III	8	Adler et al 2004		
Antocha	L	I	1	Wils 1995		
Dicranota	L	-	5	"		
Tipula	L	II	2	"		
Gammarus pseudolimnaeus	A	8-III	48	Nels 1972		
Naidinae	A	I	1	Brinkhurst 1971		
~~Split A3 Chironomidae~~	L	+JJD				
Diamesa	L	*III	14	Smith Anderson 2013		
orthocladiinae 0803000000	L	I	1	Cranston 2013	not det	N
Cricotopus	L	III	3	Anderson 2013		
Eukiefferiella claripennis group	L	I	1	"		
Tvetenia bavarica group	L	-I	6	Bode 1983		
Orthocladius (Orthocladius)	L	II	2	Anderson 2013		
Cricotopus/Orthocladius	L	I	1	Ferr et al 2008		
Micropsectra	L	I	1	Epler et al 2013		
Paratanytarsus sp. B	L	I	1	Wils unpubl		
Polypedilum (Uresipedilum) flavum	L	-II	7	Bolton 2012		
Rheotanytarsus	L	-	5	Epler et al 2013		

<23 taxa, TVAL ≤ 2.0