PULL THERMISTOR ~200 ft DS of bridge; right bank; below giant white pine tree; rebar in bank near small diameter tree; thermistor on long wire and lashed to rock

State of Wisconsin
Department of Natural Resources
PO Box 7291, Madison WI 53707-7291
dnr.wi.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)**
TOTAGATIC RIVER	2689800	20150402-66-03

Sampling Location: 50m DS Nancy Lake Rd

Database Key: 168634570

SWIMS Station ID	**SWIMS Station Name**
10022312	TOTAGATIC RIVER DOWNSTREAM OF NANCY LAKE ROAD

Latitude	**Longitude**	**Lat/Long Determination Method (circle)**	**Datum Used if using GPS**
46.09908	-91.94488	SWIMS SWDV ~~GPS~~	~~WGS84~~ or NAD83

Basin (WMU)	**Watershed Name**	**County**
ST. CROIX	LOWER NAMEKAGON RIVER	WASHBURN

Sample and Site Descriptors

Sample Collector (Last Name, First)	**Project Name**
CRAIG ROESLER	NOR LONG-TERM TREND WADEABLE REFERENCE STREAM

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.**
1	1.5	3-20s K-kicks	1 of 1

Reason For Sampling

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

Water Temp. (C)	**D.O. (mg/l)**	**D.O. (% sat.)**	**pH (su)**	**Conductivity (umhos/cm)**	**Transparency (cm)**
5.7	11.1	91.5	7.44	68.8	7121

Water Color

- [ ] Clear
- [ ] Turbid
- [x] Stained

Estimated Stream Velocity (m/s)

- [ ] Slow (< 0.15 m/s)
- [ ] Moderate (0.15 m/s - 0.5 m/s)
- [x] 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)**
	.5	10

Composition of Substrate Sampled (Percent):

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

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

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

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

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

Factors that may be influencing Water Resource Integrity	Local	Watershed
Chemical		
Chlorine		
Dissolved Oxygen		
Nutrients (P, N...)		
Toxics: - Inorganic (Metals)		
- Organic (PCBs, pesticides...)		
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:		

Comments
large eroded sand hill in station

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter	Taxonomist	Estimated Percent of Sample Sorted
Logan Cutler	Dimick, Jeffrey	7%
Date Processed	Specimens Saved	
10/16/19	256 + 2 QC specs (258 total)	

EZ
1.5 hr + 1 hr
subsample archived in ABL until Jan 2022

Wisconsin Department of Natural Resources
ABL SampleNum: **20181102-66-03**
Taxonomist: Dimick, Jeffrey

Waterbody: **Totagatic River**
SWIMS Database Key: **168634570**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Ephemerella	L	II	2	Klub 2016	imm	
Maccaffertium mediopunctatum	L	-I	6	"		
Protoptila	L	I	1	Hils 1995		
Ceratopsyche	L	0-I	26	"	imm	N
C. morosa bifida form	L	8	40	schm Hils 1986		
Cheumatopsyche	L	8880-II	147	Hils 1995		
Chimarra obscura	L	I	1	Hils 1982		
Psychomyia flavida	L	III	3	Hils 1995		
Macronychus glabratus	L	I	1	Hils Schm 1992		
Optioservus	L	I	1	"	imm	N
O. fastiditus	L	II	2	"		
O. trivittatus	L	III	3	"		
Stenelmis	L	III	3	"		
Atherix variegata	L	III	3	Hils 1995		
Hemerodromia	L	IIII	4	Courtney 2008		
Orthocladius (Eurthocladius)	P	I	1	Ferr et al 2008		N
Mermithidae	A	I	1	Thorp Rog 2016		
Dugesiidae	A	0-IIII	29	"		
Hydrobiidae NOT P. antipodarum	A	I	1	Brown 1991		
~~Split A3 Chironomidae~~	~~L~~	~~HJ~~				
Eukiefferiella	L	I	1	And + 3 2013	dam	
Orthocladius (Eurthocladius) thienemanni	L	I	1	Epler 2001		
Tvetenia discoloripes group	L	-III	8	Bode 1983		
Microtendipes pedellus group	L	I	1	Epl et al 2013		
Rheotanytarsus	L	-II	7	"		