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)
Namekagon River	2689500	20160919-04-01

Sampling Location	Database Key
30m upstream of Leonard's School Rd	147428228

SWIMS Station ID	SWIMS Station Name
10048920	NAMEKAGON RIVER UPSTREAM LEONARD'S SCHOOL RD. (30M)

Latitude	Longitude	Lat/Long Determination Method (circle)	Datum Used if using GPS
46.17169	91.33012	(SWIMS) SWDV GPS	WGS84 or NAD83

Basin (WMU)	Watershed Name	County
		Bayfield

Sample and Site Descriptors

Sample Collector (Last Name, First)	Project Name
MICHAEL MILLER	PARTNERSHIP TO DEVELOP REGIONAL MONITORING NETW

Sampling Device

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

Habitat Sampled

- [X] Riffle
- [X] 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 ____
15	2	3	

Reason For Sampling

- [ ] Least Impacted Reference
- [ ] Baseline
- [ ] Impact / Treatment Site
- [ ] Control Site
- [ ] Trend
- [X] Other: Climate change eval.

Water Temp. (C)	D.O. (mg/l)	D.O. (% sat.)	pH (su)	Conductivity (umhos/cm)	Transparency (cm)
					120+

Water Color

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

Estimated Stream Velocity (m/s)

- [ ] Slow (< 0.15 m/s)
- [X] 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)
	0.5	15

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 60 Gravel (ladybug to tennisball): 10

Sand: 10 Clay: _____ Silt/Muck: 20 Overhanging Vegetation: _____

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

Embeddedness of Substrate at Sample Site (%) 0 **Canopy Cover at Sample Site (%)** 10

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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	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		
Physical			Point Source - Specify:		
Bank Erosion			Pasturing of Livestock		
Channelization: - Upstream			Runoff: - Barnyard		
- Dow nstream			- Construction		
Hydraulic Scour / Channel Incision			- Cropland		
Impoundment: - Upstream			- Urban		
- Dow nstream			Septic Systems		
Low Flow			Tile Drainage - Organic Soils		
Sedimentation			- Mineral Soils		
Sludge			Springs		
Thermal			Tributary(s)		
Turbidity			Wetland		
Other - Specify:			Other - Specify:		

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter	Taxonomist	Estimated Percent of Sample Sorted
Justin Kowalski	Dimick, Jeffrey	7%
Date Processed	**Specimens Saved**	
10/12/17	Subsample archived in DBL until Dec 2022	

E2

275

Wisconsin Department of Natural Resources
ABL SampleNum: **20160919-04-01**
Taxonomist: Dimick, Jeffrey

Waterbody: **Namekagon River**
SWIMS Database Key: **147428228**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Acroneuria	L	4	2	Hilsenhoff 1995		
Pteronarcys	L	1	1	"	imm	
Baetis	L	1	1	Klubertanz 2016	dam	N
B. brunneicolor	L	1	1	"		
B. intercalaris	L	1	1	"		
B. flavistriga species complex	L	0-IIII	29	"		
Acentrella turbida	L	II	2	"		
Labiobaetis propinquus	L	1	1	"		
Caenis anceps	L	II	2	"		
Ephemerella	L	0IIII	24	"	imm	Y
E. subvaria	L	-IIII	8	"		
Eucylophella	L	IIII	4	"	imm	
Teloganopsis deficiens	L	-I	6	"		
Epeorus vitreus	L	1	1	"		
Stenacron interpunctatum	L	1	1	"		
Maccaffertium	L	III	3	"	imm	N
M. mediopunctatum	L	1	1	"		
M. modestum	L	III	3	"		
M. vicarium	L	III	3	"		
Leptophlebia	L	II	2	"	dam	
Paraleptophlebia	L	1	1	"	dam	
Isonychia	L	-	5	"	imm	
Gomphidae	L	1	1	Need. et al. 2000	imm	
Brachycentrus americanus	L	1	1	Hilsenhoff 1995		
B. lateralis	L	II	2	"		
Glossosoma intermedium	L	1	1	Wiggins, Morse 2000		
Protoptila	L	1	1	Hilsenhoff 1995		
Helicopsyche borealis	L	II	2	"		
Chevmatopsyche	L	DIII	23	"		
Ceratopsyche	L	1	1	"	dam	N
C. morosa morosa form	L	IIII	4	Schm. Hils. 1986		
C. sparna	L	-II	7	"		
C. walkeri	L	-III	8	"		
Lewatriehia pictipes	L	1	1	Hilsenhoff 1995		
Lepidostoma	L	X	30	"		
Setodes	L	1	1	"		
Limnephilidae	L	1	1	"	imm	
Lype diversa	L	1	1	"		

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Nigronia serricornis	L	II	2	Neunzig 1966		
Optioservus	L	X-IIII	19	Hilsenhoff 1992	imm	N
O. fastidiosus L, 20 A, 1	L,A	01	21	"		
O. trivittatus L, 49 A, 4	L,A	0X111	53	"		
Hemerodromia	L	-	5	Courtney, Merr. 2008		
Simulium tuberosum species group	L	IIII	4	Adler et al 2004		
S. venustum species complex	L	I	1	"		
Simulium	P	I	1	"	dam	N
Antocha	L	IIII	4	Hilsenhoff 1995		
Gammarus pseudolimnaeus	A	I	1	Holsinger 1972		
Hyalella sprnicauda	A	-	5	Soucek et al 2015		
Coenagrion racovitzai racovitzai	A	I	1	Williams 1972		
Metagyrinophora	A	I	1	Brin, Cook 1991		
Lumbriculus	A	XII	12	Brin, Cook 1966		
Corixidae	I	I	1	Hilsenhoff 1995	imm	
Ferrissia rivularis	A	II	2	Burch 1982		
Gastropoda	A	I	1	Pennak 1978	dam	Y
Chydoridae	A	IIII	4	Dodson, Frey 1991		
Tanypodinae	P	I	1	Fend et al 2008	dam	N
Tanypodinae Procladius?	L	I	1	Cranston 2013	dam	Y
Thienemanniniyia group	L	I	1	Cran, Epler 2013	imm	
Parametriocnemus	L	I	1	Ander + 3 2013		
Tvetenia bavarica group	L	II	2	Bode 1983		
Tv. discoloripes group	L	II	2	"		
Orthocladius (Orthocladius)	L	I	1	Ander. + 3 2013		
Microtendipes rydalensis group	L	I	1	Epler et al 2013		
Paratanytarsus longistilus	L	I	1	"		
Rheotanytarsus	L	I	1	"		