

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name POKEGAMA RIVER	Waterbody ID Code 2844000	Sample ID (YYYYMMDD-CY-FD) 20171013-16-02
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Sampling Location 10 m US Barnes Rd culvert	Database Key 149840108
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SWIMS Station ID 10043824	SWIMS Station Name POKEGAMA RIVER US BARNES ROAD
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Latitude 46.57854	Longitude -92.24512	Lat/Long Determination Method (circle) SWIMS SWDV <u>GPS</u>	Datum Used if using GPS <u>WGS84</u> or NAD83
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Basin (WMU) LAKE SUPERIOR	Watershed Name ST. LOUIS AND LOWER NEMADJI RIVER	County DOUGLAS
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Sample and Site Descriptors

Sample Collector (Last Name, First) CRAIG P ROESLER, CHANG VANG	Project Name NORTHERN DISTRICT TWA 2017
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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) 1.5	Estimated Area Sampled (m²) 1	Number of Samples in Composite 3	Replicate No. <u>1</u> of <u>1</u>
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Reason For Sampling

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

Water Temp. (C) 9.7	D.O. (mg/l) 8.1	D.O. (%sat.) 73	pH (su) 7.4	Conductivity (umhos/cm) 223	Transparency (cm) 27
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Water Color <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Turbid <input 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): 70 Gravel (ladybug to tennisball): 10
 Sand: _____ Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: 10 Leaf Snags: 10 Coarse Woody Debris: _____ Other (): _____
 Embeddedness of Substrate at Sample Site (%) 0 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

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter <i>Kayla Wilcox</i>	Taxonomist <i>Dimick Jeffrey</i>	Estimated Percent of Sample Sorted <i>33%</i>
Date Processed <i>12/14/17</i>	Specimens Saved <i>subsample archived in dBe until Apr 2020</i>	

E1 = 21 D3 = 41 B1 = 87
 B3 = 25 A2 = 33

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Alloceania</i>	L	xvii	15	Hilsenhoff 1995		
<i>Baetis brunneicolar</i>	L	iii	3	Kluberantz 2016		
<i>Acerpenna</i>	L	iii	3	"	dam	N
<i>A. macdunnoughi</i>	L	xxii	22	"		
<i>caenis</i>	L	i	5	"	imm	N
<i>c. latipennis</i>	L	ii	2	"		
<i>Stenocran</i>	L	iiii	4	"	imm	N
<i>S. interpunctatum</i>	L	ii	2	"		
<i>Stenonema femoratum</i>	L	i	1	"		
<i>Leptophlebia</i>	L	ii	2	"	dam/imm	N
<i>L. cupida</i>	L	v	30	"		
<i>Glossosoma intermedium</i>	L	i	1	Wymer, Morse 2007		
<i>Cheumatopsyche</i>	L	xiii	13	Hilsenhoff 1995		
Limnephilidae	L	ii	7	ADD "	imm	
<i>Idelichus striatus</i>	A	ii	2	Hils., Schum. 1992		
<i>Optrosenus</i>	L	xxii	7	"	imm	N
<i>D. fastiditus</i>	A	i	1	"		
<i>Dubiraphia</i>	L	iiii	5	"		
<i>Bezzia/Palpaomyia</i>	L	i	1	Hilsenhoff 1995		
<i>Pemphredoninae</i>	L	ii	2	Geist, Merr. 2008		
<i>Simulium</i>	L	i	1	Adler et al 2004		
<i>Chrysops</i>	L	i	1	Hilsenhoff 1995		
<i>Dicranota</i>	L	i	1	"		
<i>Syntherisma</i>	A	i	1	Puckino 1984		
<i>Tribicoid Naididae w/o capilliform chaetae</i>	A	i	1	Erseus et al 2008		
<i>Psidium</i>	A	i	1	Burch 1972		
<i>Culicoides</i>	L	i	1	Hilsenhoff 1995		
<i>Conchapelonia</i>	L	i	1	Crain, Eper 2013		
<i>Merocelonia</i>	L	iii	3	"		
<i>Nataisia baldimorea</i>	L	ii	2	Eper 2001		
<i>Brillia</i>	L	ii	2	Anderson 2013		
<i>Corynoneura</i>	L	i	1	"		
<i>Parametriocnemus</i>	L	xi	11	"		
<i>Thienemanniella xera</i>	L	i	1	Bolton 2012		
<i>Chironomus</i>	L	i	1	Eper et al 2013		
<i>Cryptochironomus</i>	L	i	1	"		

