

Station Summary

Waterbody Name GRAND RIVER	WBIC 159300	Field Seq no. generated by SWIMS 279146485
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SWIMS Station ID 10033618	SWIMS Station Name GRAND RIVER - NEAR FOX RIVER
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Field Sample ID (retrieval date) 20210901-39-02	Basin (WMU) UPPER FOX	Watershed Name LOWER GRAND RIVER	County MARQUETTE
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Project Name LARGE RIVER SUPPLEMENTAL MACROINVERTEBRATE MONITORING

Latitude 43.745945 <i>43.74517</i>	Longitude -89.270515 <i>W89.27325</i>	Determination Method <i>WGA GPS</i>	Datum Used <i>WGS84</i>
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Site Access Details: *US of Hope 2 confluence 15m, West Side of River*

Sample and Site Descriptors

Sampling Device

- Standard Non-wadeable Hester Dendy Hester Dendy Area Calculation = Plate Size (cm) _____
 Number of Plates _____
 Other Device: _____ Device Area Calculation = Plate Size (cm) _____

Habitat Sampled

- Suspended River Bed

Snags (no./100m) *0* Avg. size (dbh) *0* Coniferous and/or Deciduous (circle)

Riparian Land Use, Vegetation, and Condition: *Natural*

Substrate Composition

Bedrock _____% Boulder _____% Cobble _____% Gravel _____%
 Sand *100*% Silt _____% Clay _____% Muck _____%
 Aquatic Macrophytes _____% CWD _____% Other (_____): _____%

Field Measurements

	Deployment	Retrieval	Total Colonization Time (Days)
Date:	<i>7/21/21</i>	<i>9/1/21</i>	
Time:	<i>12:02</i>	<i>12:00</i>	
Personnel:	<i>D. Bolha</i>	<i>D. Bolha</i>	
Water Depth at Location (m):	<i>0.9</i>	<i>0.6</i>	
Sampler Height Above Substrate (m):	<i>0.2</i>	<i>0.2</i>	
Bank Placement: R <i>(L)</i>		<i>L</i>	
Distance From Bank:	<i>3m</i>	<i>3m</i>	
Water Temp (C):	<i>24.8</i>	<i>21.9</i>	
Water Color (clear, turbid, stained):	<i>clear</i>	<i>clear</i>	
D.O. (mg/L):	<i>5.6/69.5</i>	<i>3.21/36.7%</i>	
pH:	<i>7.5</i>	<i>7.46</i>	
Conductivity: <i>SpC</i>	<i>513.7</i>	<i>519.4</i>	
Transparency Tube (cm):	<i>120</i>	<i>120</i>	
Turbidity (NTUs):			
Water Velocity (m/s):	<i>0.146</i>	<i>0.146</i>	

6.4% = 41/64

6.83 av. → .01366 or 1.4%

Non-Wadeable Macroinvertebrate Field Data Report

Form 3200-136 (R 10/11)

Page 2 of 2

Draw Map:

Ethanol replaced the second day? Yes No
 Label on inside of jar? Yes No
 Label on outside of jar? Yes No

Additional Notes:

total sort

For Lab Use Only

Sample Sorter Katherine McClure	Taxonomist Dimick, Jeffrey	Estimated Percent of Sample Sorted 100.0%
Date Processed 8/22/22	Specimens Saved Subsample archived in ABL until Nov 2025	

F7:10 B6:5 F3:10 =41
E5:10 C8:1 A7:5

265

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon	L/R Y/N
Oecetis	L	1	1	MCB 2019	imm		N
Aschrotophiza	L	1	1	"			
Berosus	L	1	1	"			
Crangonyx	A	III	3	Thorp Reg 2016	fem		
Hyalella spinicauda	A	III	9	Soucek et al 2015			
Caecidotea racovitzai racovitzai	A	III	4	Will 1972			
Bezzia/Palyomyia	L	1	1	Hils 1995			
Dugesidae	A	21	21	Thorp Reg 2016			
Laevapex fuscus	A	33	33	"			
Hydrabidae NOT P. antipodarum	A	204+2	206	Burch 1989			
Gyralus defletus	A	III	4	Thorp Reg 2016			
Glossiphonia complanata/elegans	A	1	1	"			
Helobdella eriensis	A	III	8	Saglam et al 2018			
Cyclopidae	A	1	6	Thorp Reg 2016			
Daphnidae	A	1	1	"			
Poecopoda	A	1	1	"			
Plumatella	A	1	1	"			
Epithoa/Tetragoneuria cynosuva	L	1	2	Tennissen 2019			Y
Spit/Az Chironomidae	L	III	11				
Spit/Az worms extraplate	A	8x	11				
Spit/Az worms extraplate	A	8x	11				
Spit/Az worms unipye	A	2x11	11				
Spit/Az worms	A	8000	11				
Procladius (Holarctopus)	L	1	1	And et al 2013			N
Cricotopus (Isocladius) sylvestris group	L	1	1	"			
Chironomus	L	1	1	"			
Tanytarsus	L	1	1	"			
Naididae	A	XI	11	Kath Brun 1998	int undet		
Dero digitata	A	88-III	78	"			
D. obtusa	A	1	1	"			
Haemonais waldregeli	A	1	1	"			
Nais	A	1	5	"	dam		
N. variabilis	A	88-III	89	"			
Pristina jenkinsae	A	1	1	"			
Tubificonae (with hairs)	A	III	4	"		Y	
Tubificonae (without hairs)	A	III	4	"		Y	