

**Station Summary**

<b>Waterbody Name</b> RAT RIVER	<b>WBIC</b> 251800	<b>Field Seq no.</b> generated by SWIMS 199649994
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<b>SWIMS Station ID</b> 10016758	<b>SWIMS Station Name</b> RAT RIVER - HWY 110
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<b>Field Sample ID</b> (retrieval date) 20190913-71-01	<b>Basin (WMU)</b> WOLF RIVER	<b>Watershed Name</b> ARROWHEAD RIVER AND DAG	<b>County</b> WINNEBAGO
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**Project Name** LARGE RIVER SUPPLEMENTAL MONITORING IN FOX AND WOLF RIVER BASIN

<b>Latitude</b> 44.21317 N44.19964	<b>Longitude</b> -88.76182 W88.77148	<b>Determination Method</b> GPS	<b>Datum Used</b> WGS84
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**Site Access Details:** US Kiesows Landing

**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 Wetland

**Substrate Composition**

Bedrock \_\_\_\_\_%      Boulder \_\_\_\_\_%      Cobble \_\_\_\_\_%      Gravel 50%  
Sand 50%      Silt \_\_\_\_\_%      Clay \_\_\_\_\_%      Muck \_\_\_\_\_%  
Aquatic Macrophytes \_\_\_\_\_%      CWD \_\_\_\_\_%      Other (\_\_\_\_): \_\_\_\_\_%

**Field Measurements**

	Deployment	Retrieval	Total Colonization Time (Days)
Date:	07/17/2019	09/13/2019	58
Time:	15:00	15:15	
Personnel:	DB, ZK	DB, ZK	
Water Depth at Location (m):	1.3	1.3	
Sampler Height Above Substrate (m):	0.2	0.2	
Bank Placement: R L			
Distance From Bank:	6m	6m	
Water Temp (C):	28.7	64.6°F	
Water Color (clear, turbid, stained):	stained	turbid	
D.O. (mg/L):	0.6		
pH:	7.3		
Conductivity:	595.5		
Transparency Tube (cm):	92	64	
Turbidity (NTUs):			
Water Velocity (ft/s):	0.228 ft/s	0.49 ft/s	

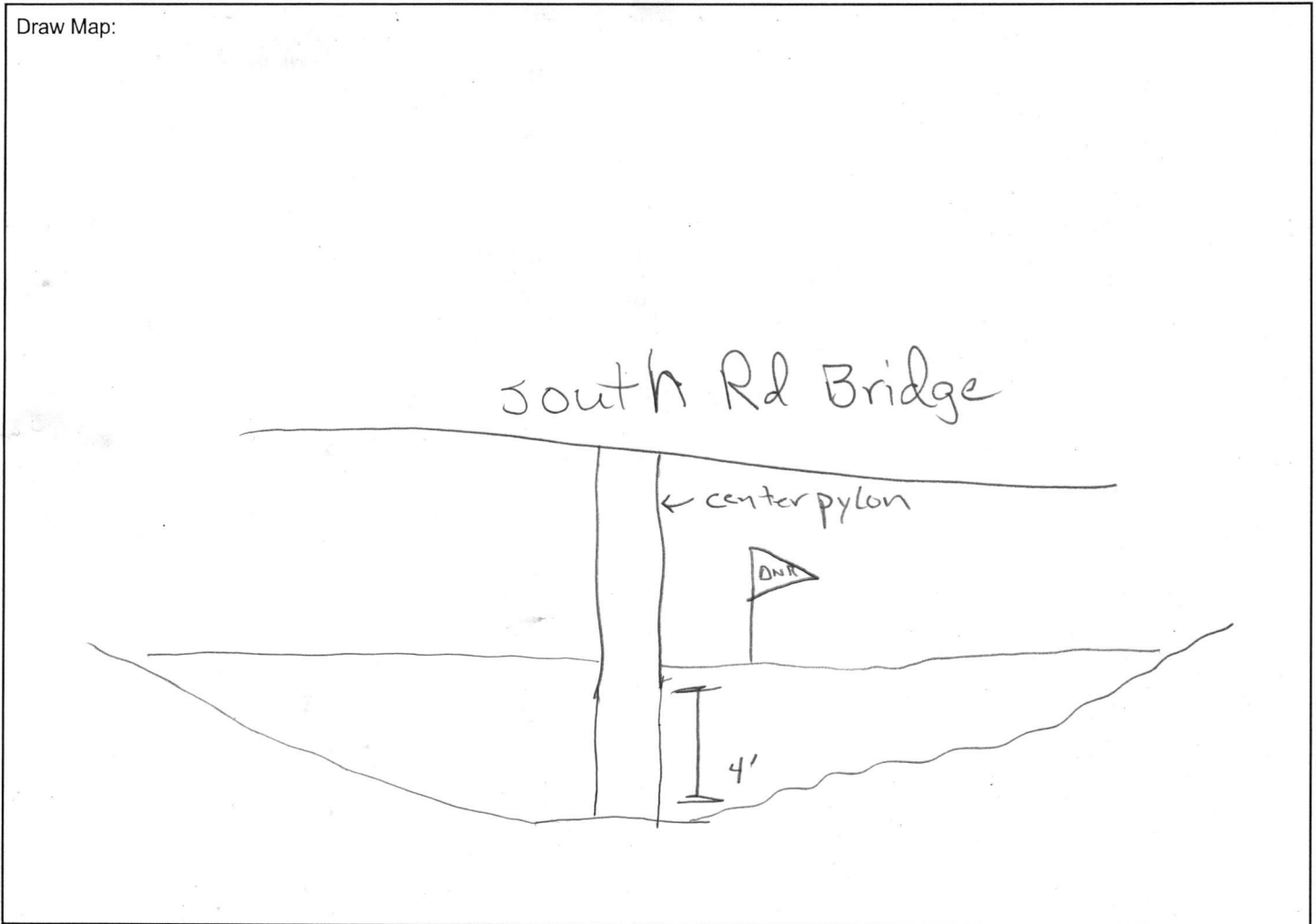
placed under South Rd bridge

# Non-Wadeable Macroinvertebrate Field Data Report

Form 3200-136 (R 10/11)

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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:

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For Lab Use Only		
Sample Sorter <i>Isabel Dunn</i>	Taxonomist <i>Demick Jeffrey</i>	Estimated Percent of Sample Sorted 100%
Date Processed <i>11/21/2020</i>	Specimens Saved <i>Subsample archived in ADL until Jan 2020</i>	

$\frac{C3}{8}$      $\frac{A2}{7}$     Remaining Grids  
 231

(246)

9:00 - 12:15  
 1 ABCD  
 2  
 3  
 4



Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon	L/R Y/N
Callibaetis	L	I	1	Merrillum B 2019	imm		N
Coenis	L	IIII	4	"	imm		
Anax junius	L	I	1	Tennessee 2019			
Coenagrionidae (Coenag/Enallag)	L	-III	8	Merrillum B 2019	imm		
Pachydiplax longipennis	L	I	1	Tennessee 2019			
Cheumatopsyche	L	II	2	Merrillum B 2019			
Haliphus	L	I	1	"			
Dicentropes	P	I	1	"			
Hyalela azteca	A	x-II	17	Savock et al 2015			
Caecidotea communis	A	80-III	69	Witt 1972			
Corynoneura	P <del>AD</del>	I	1	Merrillum B 2019			
Laemax fuscus	A	I	1	Thompson 2016			
Hydrobiidae not P. antipodarum	A	III	3	Thompson 1991			
Helisoma anceps	A	I	1	Burch 1989			
Helobdella echoensis	A	I	1	Sagam et al 2018			
H. eriensis	A	II	7	"			
Stylaria lacustris	A	-IIII	12	Kahn Bein 1998			↓
<del>Split A2a Chironomidae</del>	<del>L</del>	<del>8x-III</del>					
<del>Split A2b Chironomidae</del>	<del>L</del>	<del>8x-III</del>					
<del>Split A2c Chironomidae</del>	<del>L</del>	<del>6x-III</del>					
<del>Split A2d worms</del>	<del>A</del>	<del>2x-III</del>					
<del>Split A2d Chironomidae</del>	<del>L</del>	<del>1x-III</del>					
Corynoneura	L	II	2	And et al 2013			N
Tanyptera 08210000	L	-II	7	"	comp imm	N	
Zavrelomyia	L	x-II	17	"			
Acricotopus	L	I	1	"			
Chironominae 08330000	L	x-II	12	"	imm	N	
Chironomus	L	IIII	4	"			
Dicentropes	L	-II	7	"			N
Endochironomus nigricans	L	-II	7	Bolton 2012			
Kiefferulus	L	8-III	44	And et al 2013			
Microtendipes pedellus group	L	I	1	"			
Parachironomus	L	II	2	"	mt indet		
Anatanytarsus	L	II	2	"	mt indet	N	
P. species B	L	x-II	12	Hils unpubl			
Polypedium	L	III	3	And et al 2013	imm	N	
P. (Polypedium) trigenus	L	III	3	Bolton 2012			
Rheotanytarsus	L	I	1	And et al 2013			
Tanytarsus	L	-II	7	"			↓

