

Instructions: Bold fields must be completed.

Station Summary		
Waterbody Name <u>Unnamed Tributary to East Twin River</u>	Waterbody ID Code <u>86400</u>	Sample ID (YYYYMMDD-CY-FD) <u>20181001-31-21</u>
Sampling Location		Database Key 168775518

SWIMS Station ID 10051637	SWIMS Station Name UNNAMED TRIBUTARY TO EAST TWIN RIVER OFF CTH B		
Latitude	Longitude	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
Basin (WMU)		Watershed Name	County <u>Kewaunee</u>

Sample and Site Descriptors	
Sample Collector (Last Name, First) MARY GANSBERG	Project Name NE LAKESHORE TMDL SUPPLEMENTAL MONITORING

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) <u>10</u>	Estimated Area Sampled (m ²) <u>1.8</u>	Number of Samples in Composite <u>1</u>	Replicate No. _____ of _____
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Reason For Sampling

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

Water Temp. (C) <u>10.9</u>	D.O. (mg/l) <u>9.3</u>	D.O. (% sat.) <u>84.5</u>	pH (su) <u>8.1</u>	Conductivity (umhos/cm) <u>733</u>	Transparency (cm)
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Water Color <input type="checkbox"/> Clear <input type="checkbox"/> Turbid <input checked="" 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) <u>0.5</u>	Average Stream Width of reach (m) <u>1.8</u>
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): 10 Rubble (tennisball to basketball): 50 Gravel (ladybug to tennisball): 20
 Sand: 10 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: 10
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (____): _____
 Embeddedness of Substrate at Sample Site (%) 30 Canopy Cover at Sample Site (%) 10

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			
Channelization: - Upstream				Runoff: - Barnyard			
- Downstream				- Construction			
Hydraulic Scour / Channel Incision				- Cropland			
Impoundment: - Upstream				- Urban			
- Downstream				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
Kayla Wilcox	Dimick, Jeffrey	13%
Date Processed	Specimens Saved	
6/7/19	Subsample archived in ABL cabinet Aug 2022	

E3=107
 E1=83

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Taeniopteryx	L	1	1	Hils 1995	imm	
Stenacron	L	XI	11	Klub 2016	imm	N
S. interpunctatum	L	III	3	"		
Maccaffertium vicarium	L	III	4	"		
Leptophlebia	L	III	4	"	imm	
Calopteryx maculata	L	I	1	west May 1996		
Cheumatopsyche	L	XVI	7	Hils 1995		
Nydropsyche	L	II	2	"	imm	N
N. betteni	L	I	5	schm Hils 1986		
Pycnopsyche	L	I	1	Hils 1995		
Nyctiophylax	L	II	2	"		
Psychomyia flavida	L	III	3	"		
Opioserenus	L	III	3	Hils Schm 1992	imm	N
O. fastiditus	L	III	4	"		
Hemerodromia	L	I	1	Court Merr 2008		
Chironomidae 0825002	P	II	2	Merr Webb 2008	dam	N
Parakiefferella	P	I	1	Ferr dal 2008		
Thienemanniella	P	I	1	"		N
Antocha	L	I	6	Hils 1995		
Gammarus pseudolimnoides	A	II	2	Hils 1972		
Caecidotea intermedia	A	I	1	Will 1972		
Naidinae	A	XXIII	60	Bernfeld (99)		
Tubificonae (without hairs)	A	I	1	Klemm 1985		
Split A2a Chironomidae	L	XXV				
Split A2b Chironomidae	L	XXV				
Split A2c Chironomidae	L	XXV				
Tvetenia bavarica group	L	I	1	Bode 1983		
Chironomidae 0825000	L	I	1	Court Merr 2008	dam	N
Conchapelopia 08270700	L	I	1	Cran Epl 2013		
Thienemanniomyia group	L	I	1	"	imm	N
Orthocladiinae 08300000	L	I	1	Cranston 2013	dam	N
Brillia	L	I	1	And + 3 2013	imm	N
B. flavifrons	L	I	1	Epler 2001		
Limnophyes	L	I	1	And + 3 2013		
Parakiefferella	L	8-	35	"		N
Thienemanniella	L	I	1	"	imm	N

