

Instructions: Bold fields must be completed.

Station Summary				
Waterbody Name BIG DRYWOOD CREEK		Waterbody ID Code 2154800		Sample ID (YYYYMMDD-CY-FD) 20181023-09-4
Sampling Location US bridge ~ 8m				Database Key 169413407
SWIMS Station ID 10008672		SWIMS Station Name 5 - BIG DRYWOOD CREEK - 250TH ST		
Latitude	Longitude	Lat/Long Determination Method (circle) SWIMS SWDV GPS		Datum Used if using GPS WGS84 or NAD83
Basin (WMU) LOWER CHIPPEWA		Watershed Name LOWER YELLOW (CHIPPEWA CO.) RIVER		County CHIPPEWA
Sample and Site Descriptors				
Sample Collector (Last Name, First) CHRISTOPHER J WILLGER, Mycal Zelenka			Project Name BIG DRYWOOD/LITTLE DRYWOOD TWA 2018	
Sampling Device				
<input checked="" type="checkbox"/> D-Frame Kick Net <input type="checkbox"/> Surber Sampler <input type="checkbox"/> Eckman <input type="checkbox"/> Ponar <input type="checkbox"/> Artificial Substrate <input type="checkbox"/> Hess Sampler <input type="checkbox"/> Other: _____				
Habitat Sampled				
<input type="checkbox"/> Riffle <input checked="" type="checkbox"/> Run <input type="checkbox"/> Pool <input type="checkbox"/> Other <input type="checkbox"/> Shoreline Composite <input type="checkbox"/> Proportionally-Sampled Habitat <input type="checkbox"/> Littoral Zone <input type="checkbox"/> Profundal Zone <input type="checkbox"/> Wetland				
Total Sampling Time (min) 30s	Estimated Area Sampled (m²) 1m ²	Number of Samples in Composite 1		Replicate No. 1 of 1
Reason For Sampling				
<input type="checkbox"/> Least Impacted Reference <input type="checkbox"/> Baseline <input type="checkbox"/> Impact / Treatment Site <input type="checkbox"/> Control Site <input type="checkbox"/> Trend <input checked="" type="checkbox"/> Other: TWA				
Water Temp. (C)	D.O. (mg/l)	D.O. (% sat.)	pH (su)	Conductivity (umhos/cm)
Water Color		Estimated Stream Velocity (m/s)		
<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained		<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)		
Measured Velocity	circle units m/s or f/s	Average Stream Depth of reach (m) 0.2	Average Stream Width of reach (m) 4	
Composition of Substrate Sampled (Percent):				
Bedrock: _____	Boulders (basketball or larger): 10	Rubble (tennisball to basketball): 90	Gravel (ladybug to tennisball): _____	
Sand: _____	Clay: _____	Silt/Muck: _____	Overhanging Vegetation: _____	
Aquatic Macrophytes: _____	Leaf Snags: _____	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			Factors that may be influencing Water Resource Integrity		
Local	Water-shed		Local	Water-shed	
Biological			Chemical		
Algae: - Diatoms / Periphyton	N	U	Chlorine	U	
- Filamentous Algae	N	U	Dissolved Oxygen	N	
- Planktonic Algae	N	U	Nutrients (P, N...)	PH	
Iron Bacteria	N	U	Toxics: - Inorganic (Metals)	U	
Macrophytes	N	U	- Organic (PCBs, pesticides...)	U	
Slimes	N	U	Other - Specify:	U	
Other - Specify:			Sources of Stream Impacts		
			Bank Erosion	N	U
			Point Source - Specify:	N	N
Physical			Pasturing of Livestock	N	U
Bank Erosion	N	U	Runoff: - Barnyard	N	U
Channelization: - Upstream	N	U	- Construction	N	U
- Downstream	N	U	- Cropland	PH	U
Hydraulic Scour / Channel Incision	N	U	- Urban	N	U
Impoundment: - Upstream	N	U	Septic Systems	U	U
- Downstream	N	U	Tile Drainage - Organic Soils	U	U
Low Flow	U	U	- Mineral Soils	U	U
Sedimentation	N	U	Springs	N	U
Sludge	N	U	Tributary(s)	N	U
Thermal	U	U	Wetland	N	U
Turbidity	U	U	Other - Specify:		
Other - Specify:					

Comments

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter <i>Macayla Greider</i>	Taxonomist <i>Dimick, Jeffray</i>	Estimated Percent of Sample Sorted <i>27</i>
Date Processed <i>5/13/19</i>	Specimens Saved <i>129 subsample archived in ABC until Jul 2022</i>	

% sort:
 Specs:
 Grids: B3(33) + D2(9) + C1(56) + 31(E1)

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Allocamnia</i>	L	XI	11	Hils 1995		
<i>Isoperla signata</i>	L	I	1	Hils 1982		
<i>Taeniopteryx</i>	L	I	1	Hils 1995	imm	
<i>Caenis</i>	L	III	3	Klub 2016	imm	N
<i>C. latipennis</i>	L	-	5	"		
Heptageniidae	L	-II	7	"	imm	N
<i>Stenonema</i>	L	-I	6	"	imm	
<i>Leucoceta</i>	L	I	1	"		
<i>Maccaffertium mediquinetatum</i>	L	-III	9	"		
<i>M. vicarium</i>	L	X	15	"		
<i>Paraleptophlebia</i>	L	III	3	"	imm	
<i>Ceratopsyche bronta</i>	L	-II	7	Schmitt 1986		
<i>Helichus striatus</i>	A	I	1	Hils Schmitt 1992		
<i>Dubiraphia vittata</i>	A	I	1	"		
<i>Opiocservus</i>	L	-I	6	"	imm	N
<i>O. fastidius</i> L.I A.I	L, A	II	2	"		
<i>Stenelmis crenata</i>	A	III	4	"		
<i>Probezzia</i>	L	I	1	Hils 1995		
<i>Antocha</i>	L	I	1	"		
<i>Picranota</i>	L	I	1	"		
<i>Pilaria</i>	L	I	1	"		
<i>Gemmarus pseudolunaeus</i>	A	I	1	Hils 1972		
Mermithidae	A	II	2	Thorp Reg 2016	imm	
Tubificonae (without hairs)	A	I	1	Klemm 1985		
Naididae	A	II	2	Brin Geld 1991		
split by Chironomidae	L	III				
<i>Conchapelopia</i> 08270700	L	I	1	Cran Epl 2013		
<i>Nilotanytus</i>	L	I	1	"		
<i>Thienemannimyia</i> group	L	I	1	"	imm	N
<i>Parakiefferella</i>	L	I	1	And + 3 2013		
<i>Parametrocnemus</i>	L	I	1	"		
<i>Tvetenia bavarica</i> group	L	I	1	Bode 1983		
<i>Rhacocricotopus</i>	L	I	1	And + 3 2013		
<i>Orthocladus</i> (<i>Orthocladus</i>)	L	III	8	"		
<i>Cricotopus</i> (<i>Cricotopus</i>) <i>bicinctus</i> group	L	I	1	"		
<i>Eladotanydarsus</i>	L	I	1	Epl et al 2013		
<i>Microtanydipes pedellus</i> group	L	I	1	"		

