

Instructions: **Bold** fields must be completed.

Station Summary			
Waterbody Name CHRISTMAS CREEK		Waterbody ID Code 2158200	Sample ID (YYYYMMDD-CY-FD) 20191120-09-02
Sampling Location DS Culver ~ 8m		Database Key 215849278	
SWIMS Station ID 10008719		SWIMS Station Name 2 - CHRISTMAS CREEK - 230TH AVE	
Latitude	Longitude	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
Basin (WMU) LOWER CHIPPEWA		Watershed Name UPPER YELLOW (TAYLOR CO.) RIVER	County CHIPPEWA
Sample and Site Descriptors			
Sample Collector (Last Name, First) Raleigh, Mycal ; Kristen Robinson		Project Name LOTZ CREEK-YELLOW RIVER/PIKE CREEK TWA 2019	
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 checked="" type="checkbox"/> Riffle <input 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) 1 min	Estimated Area Sampled (m²) 1.5	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) 11.1	D.O. (mg/l)	D.O. (% sat.)	pH (su)
Water Color <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained		Estimated Stream Velocity (m/s) <input checked="" type="checkbox"/> Slow (< 0.15 m/s) <input 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) 0.15	Average Stream Width of reach (m) 4.5	
Composition of Substrate Sampled (Percent):			
Bedrock: _____	Boulders (basketball or larger): _____	Rubble (tennisball to basketball): 30	Gravel (ladybug to tennisball): 60
Sand: 10	Clay: _____	Silt/Muck: _____	Overhanging Vegetation: _____
Aquatic Macrophytes: _____	Leaf Snags: _____	Coarse Woody Debris: _____	Other ():: _____
Embeddedness of Substrate at Sample Site (%) 10		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	N	U	Chlorine	U	U
- Filamentous Algae	U	U	Dissolved Oxygen	U	U
- Planktonic Algae	N	U	Nutrients (P, N...)	U	U
Iron Bacteria	N	U	Toxics: - Inorganic (Metals)	U	U
Macrophytes	N	U	- Organic (PCBs, pesticides...)	U	U
Slimes	N	U	Other - Specify:		
Other - Specify:			Sources of Stream Impacts		
			Bank Erosion	PH	U
Physical			Point Source - Specify:		
Bank Erosion	PH	U	Pasturing of Livestock	PH	U
Channelization: - Upstream	N	N	Runoff: - Barnyard	PL	U
- Downstream	N	N	- Construction	N	U
Hydraulic Scour / Channel Incision	N	N	- Cropland	N	U
Impoundment: - Upstream	N	N	- Urban	N	U
- Downstream	N	N	Septic Systems	U	U
Low Flow	N	U	Tile Drainage - Organic Soils	U	U
Sedimentation	PH	U	- Mineral Soils	U	U
Sludge	U	U	Springs	U	U
Thermal	U	U	Tributary(s)	U	U
Turbidity	U	U	Wetland	U	U
Other - Specify:			Other - Specify:		

Comments: Heavy cattle pasturing upstream and downstream of road crossing

Special Instructions for Laboratory

3B = 186

Total = 186

For Lab Use Only

Sample Sorter Murphy Steinger	Taxonomist Dimitri Jeffrey	Estimated Percent of Sample Sorted 7%
Date Processed 2/3/2020	Specimens Saved Subsample archived in ABZ until Apr 2023	

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Aesopenna pygmaea</i>	L	iii	4	Kleb 2016		
<i>Caenis latipennis</i>	L	1	1	"		
<i>Maccaffertium medipunctatum</i>	L	1	1	"		
<i>M. vicarium</i>	L	iii	3	"		
<i>Stenacron</i>	L	(ii)	3	"	imm	
<i>Leptophlebia</i>	L	x	10	"	imm	
<i>Allocaenis</i>	L	-()	7	Hils 1995		
<i>Taeniopteryx burksi</i>	L	1	1	Full Stew 1980		
<i>Chironomopsycha</i>	L	x-	15	Hils 1995		
<i>Hydropsyche betteni</i>	L	1	1	Schm Hils 1986		
<i>Stenelmis</i>	L	1	1	Hils Schm 1992		
<i>Hemerochromia</i>	L	1	1	Court Merr 2008		
<i>Simulium vittatum</i> species complex 0810217	L	1	1	Adl et al 2004		
<i>Caecidotea racovitzai racovitzai</i>	A	"	2	Will 1972		
Split to 3 Chironomidae	L	ii (10)				
<i>Chironomidae</i> 0825000	L	1	1	Court Merr 2008	dam	N
<i>Conchapelopia</i> 0827070	L	1	1	Cran Epl 2013		
<i>Natarsia baltrimareae</i>	L	1	1	Bolton 2012		
<i>Thienemannimyia</i> group	L	1	1	Cran Epl 2013		
<i>Orthocladiinae</i> 0830000	L	ii	2	Cranston 2013	imm	N
<i>Corynoneura</i>	L	1	1	Andt 3 2013		
<i>Cricotopus (Cricotopus) bicinctus</i> group	L	-	5	"		
<i>Diplocladius</i>	L	B.ii	42	"		
<i>Hydrobaenus</i>	L	iii	3	"		
<i>Orthocladius (Orthocladius)</i>	L	iii	3	"		Y
<i>O.(O.) oliveri</i>	L	-	5	Bolton 2012		
<i>Parametrioctonus</i>	L	x	10	Andt 3 2013		
<i>Rheocricotopus</i>	L	ii	2	"		
<i>Thienemannella</i>	L	ii	2	"	imm	
<i>Tvetenia bavarica</i> group	L	1	1	Bode 1983		
<i>Cladotanytarsus</i>	L	1	1	Epl et al 2013		
<i>Paratanytarsus</i> species A	L	1	1	Hils Lynch 1		
<i>Polypedium (Polypedium) illinoense</i> group	L	iii	3	Bolton 2012		
<i>P. (Tripodura) scalaeum</i> group	L	1	1	"		
<i>P. (Uresipedium) aviceps</i>	L	ii	2	"		
<i>P.(U.) flavum</i>	L	1	1	"		
<i>Rheotanytarsus</i>	L	xiii	13	Epl et al 2013		

23 taxa, TVAL ≤ 2.0

