

Instructions: Bold fields must be completed.

Station Summary			
Waterbody Name COLDWATER CREEK		Waterbody ID Code 2156300	Sample ID (YYYYMMDD-CY-FD) 20171031-09-03
Sampling Location DS ~10m		Database Key 153706342	
SWIMS Station ID 10008701		SWIMS Station Name COLDWATER CREEK AT 320TH ST. [1]	
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) MYCAL RALEIGH		Project Name WEST DISTRICT FOLLOW UP MONITORING FOR IMPAIRED	
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) .5min (30sec)	Estimated Area Sampled (m ²) 1.5m ²	Number of Samples in Composite 1	Replicate No. 1 of 1
Reason for Sampling			
☐ Least Impacted Reference ☐ Baseline ☐ Impact / Treatment Site ☐ Control Site ☐ Trend ☒ Other: Follow Up			
Water Temp. (C)	D.O. (mg/l)	D.O. (% sat.)	pH (su)
Conductivity (umhos/cm)		Transparency (cm)	
Water Color		Estimated Stream Velocity (m/s)	
☒ Clear ☐ Turbid ☐ Stained		☒ Slow (< 0.15 m/s) ☐ Moderate (0.15 m/s - 0.5 m/s) ☐ Fast (> 0.5 m/s)	
Measured Velocity circle units m/s or f/s	Average Stream Depth of reach (m) .1		Average Stream Width of reach (m) 3.5
Composition of Substrate Sampled (Percent):			
Bedrock: _____	Boulders (basketball or larger): _____	Rubble (tennisball to basketball): _____	Gravel (ladybug to tennisball): 90
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	N	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	N	U
			Point Source - Specify:		
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	PL	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	N	U	- Mineral Soils	U	U
Sedimentation	N	U	Springs	U	U
Sludge	N	U	Tributary(s)	U	U
Thermal	U	U	Wetland	U	U
Turbidity	N	U	Other - Specify:		
Other - Specify:					

Comments Follow-up site. Cropland on US side, left side, road on left. Sampled DS in only noticeable riffle. Stream otherwise looks like all run-type habitat; areas of heavy sedimentation - found gravel/cobble 0.2 m beneath sand/silt in US areas.

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter Cadie Olson	Taxonomist Derrick J. Gray	Estimated Percent of Sample Sorted 13%
Date Processed 1/30/18	Specimens Saved Subsample archived in ABC until Apr 2021	

B2: 65

A3: 95

= 160

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Chironomus</i>	L	8-11	38	Hilsenhoff 1985		
<i>Hydropsyche betteni</i>	L	III	3	Schm. Nicks 1980		
<i>Nigronia serricornis</i>	L	I	1	Neunzig 1966		
<i>D. fastidiosus</i>	L	III	4	Hils. Schm. 1982	imm	N
<i>D. fastidiosus</i>	A	I	1	"		
<i>Neoplasia</i>	L	I	1	Court. Men 2008		
<i>Dicranota</i>	L	-	5	Hilsenhoff 1985		
<i>Gammarus pseudolimnaeus</i>	A	0	20	Hiltinger 1972		
Tubificoid Naididae w/ capilliform chaetae	A	II	2	Ersev et al 2008		
Split Az Chironomidae	L	1-11				
<i>Conchapelopia</i>	L	II	2	Cram. Epler 2013		
<i>Meropelopia</i>	L	I	1	"		
<i>Thienemannimyia</i>	L	I	1	"		
<i>Thienemannimyia</i> group	L	I	1	"	mt indet	N
<i>Orthocladinae</i> 08300000	L	I	1	Crampton 2013	mt indet	N
<i>Brillia seta</i>	L	I	1	Epler 2003		
<i>Corynoneura</i>	L	I	1	Ander. et al 2013		
<i>Diolocladius</i>	L	III	4	Ander. + 3 2013		
<i>Euksefferella clarensis</i> group	L	II	2	"		
<i>Parametriocnemus</i>	L	0-II	27	"		
<i>Tvetenia bavarica</i> group	L	I	1	Bode 1983		
<i>Xylotopus</i> par	L	I	1	Ander. + 3 2013		
<i>Orthocladus</i> (<i>Orthocladus</i>)	L	I	5	"		
<i>Chironominae</i> 08330000	L	I	1	Crampton 2013	mt indet	N
<i>Cryptochironomus</i>	L	I	1	Epler et al 2013		
<i>Microsestra</i>	L	III	3	"		
<i>Paratanytarsus</i> sp. A	L	II	2	Hilsenhoff unpubl		
<i>Paratendipes</i>	L	II	2	Epler et al 2013		
<i>Polypodilum</i> (<i>Polypodilum</i>) <i>illinoense</i> group	L	I	1	Bolton 2012		
<i>P. (P.) laetum</i> group	L	I	1	"		
<i>P. (Uresipodilum)</i>	L	III	4	"	imm	N
<i>P. (U.) aviceps</i>	L	XI	11	"		
<i>P. (U.) flavum</i>	L	III	9	"		
<i>Rheotanytarsus</i>	L	III	3	Epler et al 2013		