

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name ELK CREEK		Waterbody ID Code 2120800	Sample ID (YYYYMMDD-CY-FD) 2016/012-09-07
Sampling Location 60m DS bridge			Database Key 133642276
SWIMS Station ID 10030130		SWIMS Station Name ELK CREEK AT 35TH STREET	
Latitude 44.93927	Longitude -91.60007	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
Basin (WMU) LOWER CHIPPEWA		Watershed Name MUDDY AND ELK CREEKS	County CHIPPEWA

Sample and Site Descriptors

Sample Collector (Last Name, First) Auziga Mark	Project Name WCR LONG-TERM TREND WADEABLE REFERENCE STREAMS
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Sampling Device

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) 2	Estimated Area Sampled (m²) 2	Number of Samples in Composite 1	Replicate No. 1 of 1
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Reason For Sampling

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

Water Temp. (C) 51 10.64	D.O. (mg/l)	D.O. (% sat.)	pH (su)	Conductivity (umhos/cm)	Transparency (cm)
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Water Color <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input 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) 0.3	Average Stream Width of reach (m) 5
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 40 Gravel (ladybug to tennisball): 30
 Sand: 30 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (): _____

Embeddedness of Substrate at Sample Site (%) 25 **Canopy Cover at Sample Site (%)** 2

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	N	Chlorine		
- Filamentous Algae			Dissolved Oxygen	N	N
- Planktonic Algae			Nutrients (P, N...)	U	U
Iron Bacteria			Toxics: - Inorganic (Metals)		
Macrophytes			- Organic (PCBs, pesticides...)		
Slimes			Other - Specify:		
Other - Specify:			Sources of Stream Impacts		
			Bank Erosion	N	N
			Point Source - Specify:	N	N
			Pasturing of Livestock	PH	PL
Bank Erosion	PH	PL	Runoff: - Barnyard	N	
Channelization: - Upstream	N	N	- Construction	N	N
- Downstream	N	N	- Cropland	PH	PH
Hydraulic Scour / Channel Incision	PH		- Urban	N	N
Impoundment: - Upstream	N	N	Septic Systems		
- Downstream	N	N	Tile Drainage - Organic Soils		
Low Flow	N	N	- Mineral Soils		
Sedimentation	PH	PH	Springs		
Sludge			Tributary(s)		
Thermal			Wetland		
Turbidity			Other - Specify:		
Other - Specify:					

Comments 3 weeks prior to sampling significant Rain and Runoff causing scouring stream channels. Inverts likely impacted

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter Taylor Hartz	Taxonomist Dimick, Jeffrey	Estimated Percent of Sample Sorted 20%
Date Processed 8-21-17	Specimens Saved Subsample archived in ABC until Nov 2020	

C2 42
 B3 59
 E2 54

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Isoperla signata</i>	L	11	2	Nilsenhoff 1982		
<i>I. slossonae</i>	L	11	2	"		
<i>I. transmarina</i>	L	11	2	"		
<i>Taeniopteryx</i>	L	-	5	Nilsenhoff 1985	imm	
<i>Ephemerella</i>	L	1	1	Klueber 2016	imm	N
<i>E. excrucians</i>	L	11	2	"		
<i>Brachycentrus americanus</i>	L	1	1	Nilsenhoff 1985		
<i>Hydropsyche batteni</i>	L	1	1	Schm. Hils. 1986		
<i>Ceratopsyche slossonae</i>	L	1	1	"		
<i>Allocaenia</i>	L	1	1	Nilsenhoff 1985		
<i>Optiservus</i>	L	x 1	11	Hils, Schm. 1982	imm	N
<i>O. fastiditus</i>	L	-111	8	"		
<i>Stenelmis crenata</i>	A	11	2	"		
<i>Atherix variegata</i>	L	1	1	Nilsenhoff 1985		
<i>Dicranota</i>	L	21	21	"		
<i>Hesperocnoppa dolichophallus</i>	L	-11	7	"		
<i>Gammarus pseudolimnoides</i>	A	11	2	Holsinger 1972		
<i>Caecidotea</i>	A	1	1	Williams 1972	imm	
<i>Aycaetides</i>	A	-1	6	Pluchino 1984		
<i>Lebertia</i>	A	11	2	"		
<i>Tubificinae w/o capilliform chaetae</i>	A	1	1	Klemm 1985		Y
<i>Tubificinae w/ capilliform chaetae</i>	A	1	1	"		Y
Spit A3 Chironomidae	L	# JSD				
<i>Orthocladius (Orthocladius)</i>	P	1	1	Corr. et al. 1986		
<i>Thienemannimyia group</i>	L	1	1	Crain, Epler 2013	not indet	
<i>Diamesa</i>	L	1	1	Smith, Ander 2013		
<i>Parachaeetocladius</i>	L	1	1	Ander + 3 2013		
<i>Orthocladius (Orthocladius)</i>	L	-1111	9	"		
<i>Cricotopus / Orthocladius</i>	L	1	1	Fern et al 2008	not indet	N
<i>Cricotopus (Cricotopus) bicinctus group</i>	L	1	1	Ander + 3 2013		
<i>Cleodanyparsus</i>	L	80	60	Epler et al 2013		
<i>Microtendipes pedellus group</i>	L	1111	4	"		
<i>Polypedilum (Vesipedilum) aviceps</i>	L	1	1	Boldan 2012		
<i>Zootanytarsus</i>	L	x	10	Epler et al 2013		