

Instructions: Bold fields must be completed.

Station Summary			
Waterbody Name ELK CREEK		Waterbody ID Code 2120800	Sample ID (YYYYMMDD-CY-FD) 20171002-09-03
Sampling Location DS of bridge ~ 35m		Database Key 148368960	
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) MYCAL RALEIGH	Project Name WCR LONG-TERM TREND WADEABLE REFERENCE STREAMS

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) 5 min 30 sec	Estimated Area Sampled (m <sup>2</sup> ) 1m <sup>2</sup>	Number of Samples in Composite 1	Replicate No. <u>1</u> of <u>1</u>
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Reason For Sampling

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

Water Temp. (C) 12.19	D.O. (mg/l) 10.89	D.O. (%sat.) 101.5	pH (su) 7.02	Conductivity (umhos/cm) 152	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) .3	Average Stream Width of reach (m) 5m
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Composition of Substrate Sampled (Percent):

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): \_\_\_\_\_ Rubble (tennisball to basketball): 30 Gravel (ladybug to tennisball): 50  
 Sand: 10 Clay: \_\_\_\_\_ Silt/Muck: \_\_\_\_\_ Overhanging Vegetation: \_\_\_\_\_  
 Aquatic Macrophytes: 30 Leaf Snags: \_\_\_\_\_ Coarse Woody Debris: \_\_\_\_\_ Other (\_\_\_\_): \_\_\_\_\_

Embeddedness of Substrate at Sample Site (%) 40% 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
<b>Biological</b>				<b>Chemical</b>			
Algae: - Diatoms / Periphyton		N	U	Chlorine			
- Filamentous Algae		N	U	Dissolved Oxygen			
- Planktonic Algae		N	U	Nutrients (P, N...)			
Iron Bacteria		N	U	Toxics: - Inorganic (Metals)			
Macrophytes		N	U	- Organic (PCBs, pesticides...)			
Slimes		N	U	Other - Specify:			
Other - Specify:				<b>Sources of Stream Impacts</b>			
				Bank Erosion		PH	U
				Point Source - Specify:			
<b>Physical</b>							
Bank Erosion		PH	U	Pasturing of Livestock		PH	U
Channelization: - Upstream		N	N	Runoff: - Barnyard		N	U
- Downstream		N	N	- Construction		N	N
Hydraulic Scour / Channel Incision		PL	U	- Cropland		PL	PH
Impoundment: - Upstream		N	N	- Urban		N	N
- Downstream		N	PL	Septic Systems		U	U
Low Flow		N	U	Tile Drainage - Organic Soils		U	U
Sedimentation		PL	U	- Mineral Soils		U	U
Sludge		N	U	Springs		U	U
Thermal		U	U	Tributary(s)		U	U
Turbidity		N	N	Wetland		U	U
Other - Specify:				Other - Specify:			

Comments Stream heavily pastured U.S. by horses, traps surround stream U.S. & D.S. Habitat sampled was large creek under the run. Area of aquatic macrophytes, grasses, rocks, and sand, some a bit of crop debris in watershed.

Special Instructions for Laboratory

**For Lab Use Only**

Sample Sorter <i>Kayla W/COV</i>	Taxonomist <i>Dimick Jeffray</i>	Estimated Percent of Sample Sorted <i>710</i>
Date Processed <i>11/27/18</i>	Specimens Saved <i>Subsample returned in ABL with 1 Jan 2022</i>	

A3 = ~~27~~ 267