

Instructions: Bold fields must be completed.

**Station Summary**

<b>Waterbody Name</b> GRAHAM CREEK		<b>Waterbody ID Code</b> 2124700	<b>Sample ID (YYYYMMDD-CY-FD)</b> 20160927-18-03
<b>Sampling Location</b> riffle 10m US bridge @ spruce			<b>Database Key</b> 133642280
<b>SWIMS Station ID</b> 10009825		<b>SWIMS Station Name</b> GRAHAM CREEK - STATION 1 SPRUCE RD	
<b>Latitude</b> 44.66451	<b>Longitude</b> -91.47879	<b>Lat/Long Determination Method (circle)</b> SWIMS SWDV GPS	<b>Datum Used if using GPS</b> WGS84 or NAD83
<b>Basin (WMU)</b> LOWER CHIPPEWA		<b>Watershed Name</b> LOWES AND ROCK CREEKS	<b>County</b> EAU CLAIRE

**Sample and Site Descriptors**

<b>Sample Collector (Last Name, First)</b> Hazuga, Mark	<b>Project Name</b> 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

<b>Total Sampling Time (min)</b> 3	<b>Estimated Area Sampled (m<sup>2</sup>)</b> 1.5	<b>Number of Samples in Composite</b> 1	<b>Replicate No.</b> 1 <b>of</b> 1
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**Reason For Sampling**

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

<b>Water Temp.</b> 11.7°C 53°F	<b>D.O. (mg/l)</b>	<b>D.O. (% sat.)</b>	<b>pH (su)</b>	<b>Conductivity (umhos/cm)</b>	<b>Transparency (cm)</b>
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<b>Water Color</b> <input type="checkbox"/> Clear <input type="checkbox"/> Turbid <input checked="" type="checkbox"/> Stained	<b>Estimated Stream Velocity (m/s)</b> <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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<b>Measured Velocity</b> circle units m/s or f/s	<b>Average Stream Depth of reach (m)</b> 2m	<b>Average Stream Width of reach (m)</b> 3m
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**Composition of Substrate Sampled (Percent):**

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): \_\_\_\_\_ Rubble (tennisball to basketball): 60 Gravel (ladybug to tennisball): 30  
 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 (%)** 50%

**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	Watershed	Factors that may be influencing Water Resource Integrity		Local	Watershed
<b>Biological</b>				<b>Chemical</b>			
Algae: - Diatoms / Periphyton		N		Chlorine		N	N
- Filamentous Algae		N		Dissolved Oxygen		N	N
- Planktonic Algae		N		Nutrients (P, N...)		PL	PL
Iron Bacteria		N		Toxics: - Inorganic (Metals)			
Macrophytes		N		- Organic (PCBs, pesticides...)			
Slimes		N		Other - Specify:			
Other - Specify:				<b>Sources of Stream Impacts</b>			
				Bank Erosion		N	N
				Point Source - Specify:		N	N
				Pasturing of Livestock		N	N
<b>Physical</b>				Runoff: - Barnyard		N	
Bank Erosion		N		- Construction		N	N
Channelization: - Upstream		N		- Cropland		N	PL
- Downstream		N		- Urban		N	N
Hydraulic Scour / Channel Incision		N		Septic Systems			
Impoundment: - Upstream		N		Tile Drainage - Organic Soils			
- Downstream		N		- Mineral Soils			
Low Flow		N		Springs			
Sedimentation		PL		Tributary(s)			
Sludge		N		Wetland			
Thermal		N		Other - Specify:			
Turbidity							
Other - Specify:							

Comments

Special Instructions for Laboratory

**For Lab Use Only**

Sample Sorter Taylor Hasz	Taxonomist Dimick Jeffrey	Estimated Percent of Sample Sorted 13%
Date Processed 6-16-17	Specimens Saved Subsample archived in ABL until Nov 2020	

C2 55  
 D3 91  
 146

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Isoperla</i>	L		2	Hilsenhoff 1995	imm	N
<i>I. transmarina</i>	L		5	Hilsenhoff 1992		
<i>Baetis brunneicolor</i>	L	x-	21	Kilhamer 2016		
<i>Ephemerella</i>	L	o	23	"	imm	N
<i>E. excrucians</i>	L	/	6	"		
<i>Maccaffertium vicarium</i>	L	/	9	"		
<i>Paraleptophlebia</i>	L		2	"	dam	
<i>Brachycentrus occidentalis</i>	L		3	Hilsenhoff 1995		
<i>Alossosoma</i>	L		2	Hilsenhoff 1995		
<i>A. intermedium</i>	L		2	Wymen, Morse 2000		
<i>Chaumatopsyche</i>	L		1	Hilsenhoff 1995		
<i>Hydropsyche boltoni</i>	L		3	Schm., Nils. 1966		
<i>Ceratopsyche slossonae</i>	L	x	12	"		
<i>Lepidostoma</i>	L		1	Hilsenhoff 1995		
<i>Nephelox</i>	L		1	"	imm	
<i>Optioservus</i>	L	o-	29	Nils., Schm. 1992	imm	N
<i>O. fastiditus</i>	L	o	22	"		
<i>Stenelmis</i>	L		1	"		
<i>Simulium tuberosum species group</i>	L		2	Adler et al 2004		
<i>Simulium</i>	P		1	"	dam	N
<i>Antocha</i>	L		1	Hilsenhoff 1995		
<i>Dicranota</i>	L		4	"		
<i>Tubificidae w/o capilliform chaetae</i>	A		1	Klemm 1985		
<i>Lumbriculidae</i>	A		1	Bron., Geld. 1991		
no chironomidae larvae in grid subsample	TMT					