

Instructions: Bold fields must be completed.

Station Summary			
Waterbody Name KEWAUNEE RIVER		Waterbody ID Code 90700	Sample ID (YYYYMMDD-CY-FD) 20180926-31-18
Sampling Location			Database Key 168775450
SWIMS Station ID 313163		SWIMS Station Name KEWAUNEE RIVER AT CLYDES HILL ROAD	
Latitude	Longitude	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
Basin (WMU) TWIN - DOOR - KEWAUNEE		Watershed Name KEWAUNEE RIVER	County KEWAUNEE

Sample and Site Descriptors	
Sample Collector (Last Name, First) MARY GANSBERG	Project Name NE LAKESHORE TMDL SUPPLEMENTAL MONITORING

**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) 3	Estimated Area Sampled (m <sup>2</sup> ) 5.0	Number of Samples in Composite 1	Replicate No. _____ of _____
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**Reason for Sampling**

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

Water Temp. (C) 16.1	D.O. (mg/l) 11.1	D.O. (% sat.) 121.3	pH (su) 8.5	Conductivity (umhos/cm) 768	Transparency (cm)
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**Water Color**

Clear     
 Turbid     
 Stained

**Estimated Stream Velocity (m/s)**

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) 0.5	Average Stream Width of reach (m) 21
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**Composition of Substrate Sampled (Percent):**

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): \_\_\_\_\_ Rubble (tennisball to basketball): 70 Gravel (ladybug to tennisball): 20  
 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
<b>Biological</b>				<b>Chemical</b>			
Algae: - Diatoms / Periphyton				Chlorine			
- Filamentous Algae				Dissolved Oxygen			
- Planktonic Algae				Nutrients (P, N...)			
Iron Bacteria				Toxics: - Inorganic (Metals)			
Macrophytes				- Organic (PCBs, pesticides...)			
Slimes				Other - Specify:			
Other - Specify:				<b>Sources of Stream Impacts</b>			
				Bank Erosion			
				Point Source - Specify:			
				Pasturing of Livestock			
<b>Physical</b>				Runoff: - Barnyard			
Bank Erosion				- Construction			
Channelization: - Upstream				- Cropland			
- Downstream				- Urban			
Hydraulic Scour / Channel Incision				Septic Systems			
Impoundment: - Upstream				Tile Drainage - Organic Soils			
- Downstream				- Mineral Soils			
Low Flow				Springs			
Sedimentation				Tributary(s)			
Sludge				Wetland			
Thermal				Other - Specify:			
Turbidity							
Other - Specify:							

Comments

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Special Instructions for Laboratory

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For Lab Use Only		
Sample Sorter Logan Cutler	Taxonomist Dimick, Jeffrey	Estimated Percent of Sample Sorted 27%
Date Processed 6/6/19	Specimens Saved 43 + 29 + 31 + 43 = 146	

c1 B2 B1 C3 Total  
 Subsample archived in ABC until Aug 2022

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Baetis flavistriga</i> species complex	L	15	2	Klob 2016		
<i>Aesopina pycnoca</i>	L	1	1	"		
<i>Telegonopsis deficiens</i>	L	-1	6	"		
<i>Leucocorda</i>	L	-1	6	"		
<i>Maccaffertium</i>	L	1	1	"	imm	N
<i>M. medopunctatum</i>	L	XII	13	"		
<i>M. vicarium</i>	L	"	2	"		
<i>Leptophlebia</i>	L	III	3	"	imm	
<i>Helicopsyche borealis</i>	L	-II	7	Hils 1995		
<i>Cheumatopsyche</i>	L	III	5	"		
<i>Hydropsyche bettoni</i>	L	I	1	Schm Hils 1986		
<i>Ceratopsyche</i>	L	-II	7	Hils 1995	imm	N
<i>C. branta</i>	L	D-1	24	Schm Hils 1986		
<i>Chimarra obscura</i>	L	I	1	Hils 1982		
<i>Psychomyia flavida</i>	L	III	4	Hils 1995		
<i>Antisericus</i>	L	-1	6	Hils Schm 1992	imm	N
<i>D. fasciditus</i> L, 12 A, 2	L/A	XIII	14	"		
<i>Stenelmis</i>	L	I	1	"		N
<i>S. crenata</i>	A	III	4	"		
<i>Hemerodromia</i>	L	I	1	Court Mem 2008		
<i>Antocha</i>	L	XII	12	Hils 1995		
<i>Orthocladiinae</i> 0530001	P	I	1	Ferr et al 2008	dam	N
<i>Eukiefferiella</i>	P	"	2	"		N
<i>Orthocladus (Orthocladus)</i>	P	I	1	Coff et al 1986		
<i>Cricotopus (Cricotopus)</i>	P	XIII	9	"		
<i>Caecidotea</i>	A	I	1	Will 1972	imm	
<i>Hydrobates</i>	A	I	1	Pluch 1984		
<i>Dugesiiidae</i>	A	I	1	Thorp 2016		
<i>Naidinae</i>	A	-1	6	Bainfeld 1991		
<del>Split A7 Chironomidae</del>	L	III-III				
<i>Eukiefferiella devonica</i> group	L	I	1	Andr 3 2013		
<i>Parakiefferiella</i>	L	I	1	"		
<i>Orthocladus (Orthocladus)</i>	L	X-III	18	"		N
<i>Microtendipes pedellus</i> group	L	I	1	Epl et al 2013		
<i>Tanytarsus</i>	L	I	1	"		
<i>Xenochironomus xenolabis</i>	L	I	1	"		