

Instructions: Bold fields must be completed.

Station Summary			
<b>Waterbody Name</b> SOUTH FORK LEMONWEIR RIVER		<b>Waterbody ID Code</b> 1338500	<b>Sample ID (YYYYMMDD-CY-FD)</b> 20171115-42-02
<b>Sampling Location</b> ~ 7m US of bridge (Hwy 16)		<b>Database Key</b> 153617015	
<b>SWIMS Station ID</b> 10016516		<b>SWIMS Station Name</b> SO FORK LEMONWEIR RIVER - APPROXIMATELY 150 FT ABOVE BRIDGE ON STH	
<b>Latitude</b> 43.952879	<b>Longitude</b> -90.5434035	<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 WISCONSIN		<b>Watershed Name</b> LITTLE LEMONWEIR RIVER	<b>County</b> MONROE

Sample and Site Descriptors	
<b>Sample Collector (Last Name, First)</b> CAMILLE BRUHN	<b>Project Name</b> LAKE TOMAH FOLLOW-UP 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

<b>Total Sampling Time (min)</b> 1.5	<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. (C)</b> 6.27	<b>D.O. (mg/l)</b> 11.52	<b>D.O. (%sat.)</b> 101.5	<b>pH (su)</b> 7.78	<b>Conductivity (umhos/cm)</b> 354	<b>Transparency (cm)</b> 120+
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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)

<b>Measured Velocity</b> circle units m/s or f/s	<b>Average Stream Depth of reach (m)</b> 0.5	<b>Average Stream Width of reach (m)</b> 3
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**Composition of Substrate Sampled (Percent):**

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): 10 Rubble (tennisball to basketball): \_\_\_\_\_ Gravel (ladybug to tennisball): \_\_\_\_\_  
 Sand: 20 Clay: \_\_\_\_\_ Silt/Muck: \_\_\_\_\_ Overhanging Vegetation: 60  
 Aquatic Macrophytes: \_\_\_\_\_ Leaf Snags: \_\_\_\_\_ Coarse Woody Debris: 10 Other (\_\_\_\_): \_\_\_\_\_  
 Embeddedness of Substrate at Sample Site (%) 40 Canopy Cover at Sample Site (%) 10

**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	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:			<b>Sources of Stream Impacts</b>		
			Bank Erosion	PH	PH
			Point Source - Specify:	N	U
<b>Physical</b>			Pasturing of Livestock	PL	PL
Bank Erosion	PH	PH	Runoff: - Barnyard	N	U
Channelization: - Upstream	N	U	- Construction	N	U
- Downstream	N	U	- Cropland	N	PH
Hydraulic Scour / Channel Incision	N	U	- Urban	N	U
Impoundment: - Upstream	N	N	Septic Systems	U	U
- Downstream	PL	PL	Tile Drainage - Organic Soils	U	U
Low Flow	N	U	- Mineral Soils	U	U
Sedimentation	PL	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 Sampled ~7m US of Hwy 16 bridge. No riffles present & very few rocks or hard substrate. Sampled 1 boulder, woody debris, & overhanging vegetation. Riparian buffer US of bridge good, but DS livestock pasture right up to the stream bank.

Special Instructions for Laboratory

**For Lab Use Only**

Sample Sorter Taylor Hasz	Taxonomist Dimick, Jeffrey	Estimated Percent of Sample Sorted 20%
Date Processed 2-7-18	Specimens Saved Subsample archived in ABC until 2021	

B3 47  
 A2 32  
 C3 62  
 141

150

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Baetis bryanicolor</i>	L	II	2	Kluebert et al 2016		
<del>Leptophlebia</del> <i>Leptophlebia cupida</i>	L	I	1	"		
Hydropsychidae	L	I	1	Hilsenhoff 1995	imm	N
<i>Cheumatopsyche</i>	L	-	5	"		
<i>Hydropsyche boettgeri</i>	L	XIII	14	Samm, Hols. 1986		
<i>Ceratopsyche sparna</i>	L	II	2	"		
<i>Neoplasta</i>	L	III	6	Wurt. Hess. 2008		
Ephyridae	P	I	1	Merr. Webb 2009		
<i>Simulium vittatum</i> species complex 08110217	L	X-I	16	Alder et al 2004		
<i>Antocha</i>	L	I	1	Hilsenhoff 1995		
<i>Gammarus pseudolimnaeus</i>	A	8-III	49	Holsinger 1972		
Coarctata	A	I	1	Williams 1972	fem	
Tricladida	A	I	1	Kolasa 1991		
<del>Naidid</del> <i>Naididae</i>	A	III	3	Birn-Geld. 1991		
<i>Tubificoid</i> <i>Naididae</i> w/o capilliform chaetae	A	-	5	Ersev et al 2009		
<del>Split to Chironomidae</del>	L	I-III				
<i>Brillia</i>	L	II	2	Alder + 3 2013	not in det imm	N
<i>B. flavifrons</i>	L	II	2	Epler 2001		
<i>Eukiefferella claripennis</i> group	L	I	1	Alder + 3 2013		
<i>Parakiefferella</i>	L	III	3	"		
<i>Parametricnemis</i>	L	-II	7	"		
<i>Tubenia bavarica</i> group	L	III	4	Bode 1983		
<i>Cricotopus (Cricotopus) biniectus</i> group	L	I	1	Alder + 3 2013		
<i>Cryptochironomus</i>	L	I	1	Epler et al 2013		
<i>Micropsectra</i>	L	III	3	"		
<i>Microtendipes pedellus</i> group	L	I	1	"		
<i>Paracladopelma</i>	L	I	1	"		
<i>Paratanytarsus</i> sp. A	L	III	3	Hilsenhoff Unpubl.		
<i>P. longistilus</i>	L	I	1	Epler et al 2013		
<i>Polyperidium (Tanytarsus) scalanum</i> group	L	III	4	Bolton 2012		
<i>P. (Wespedillum) aviceps</i>	L	-III	8	"		
<i>Rheotanytarsus</i>	L	III	3	Epler et al 2013		

< 3 taxa, TVAL ≤ 20