

Instructions: **Bold** fields must be completed.

Station Summary			
Waterbody Name LILY RIVER		Waterbody ID Code 370900	Sample ID (YYYYMMDD-CY-FD) Lily River 20211029-34-01
Sampling Location			Database Key 320354344
SWIMS Station ID 10029113		SWIMS Station Name LILY RIVER - 169M UPSTREAM CTH-A	
Latitude 45.351105	Longitude -88.831154	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
Basin (WMU) WOLF RIVER		Watershed Name LILY RIVER	County LANGLADE
Sample and Site Descriptors			
Sample Collector (Last Name, First) AARON MARTI		Project Name NOR 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) 30	Estimated Area Sampled (m²) 15	Number of Samples in Composite 6	Replicate No. 1 of 1
Reason For Sampling			
☐ Least Impacted Reference ☐ Baseline ☐ Impact / Treatment Site ☐ Control Site ☒ Trend ☐ Other: _____			
Water Temp. (C)	D.O. (mg/l)	D.O. (% sat.)	pH (su)
Conductivity (umhos/cm)		Transparency (cm) >120	
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)	Average Stream Width of reach (m)
Composition of Substrate Sampled (Percent):			
Bedrock: _____		Boulders (basketball or larger): 5	Rubble (tennisball to basketball): 20
Sand: 45		Clay: _____	Gravel (ladybug to tennisball): 30
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
Biological			Chemical		
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:			Sources of Stream Impacts		
			Bank Erosion		
			Point Source - Specify:		
Physical			Pasturing of Livestock		
Bank Erosion			Runoff: - Barnyard		
Channelization: - Upstream			- Construction		
- Downstream			- Cropland		
Hydraulic Scour / Channel Incision			- Urban		
Impoundment: - Upstream			Septic Systems		
- Downstream			Tile Drainage - Organic Soils		
Low Flow			- Mineral Soils		
Sedimentation			Springs		
Sludge			Tributary(s)		
Thermal			Wetland		
Turbidity			Other - Specify:		
Other - Specify:					

Comments

Special Instructions for Laboratory

R1 D4
3a-12
2a-15
4a-12
1a-14

A2
2a-8
1a-8
3a-13
4a-23

A3
2a-9
1a-14
4a-9
3a-

R2 B3
2a-17
1a-15
4a-15
3a-17

D4
2a-11
1a-20
4a-19
3a-16

For Lab Use Only

Sample Sorter NORDBSTROM, ABIGAIL	Taxonomist Dimitri, Jeffray	Estimated Percent of Sample Sorted R1: 17.2% R2: 12.5%
Date Processed R1: 1/6/2022 R2: 1/9/2022	Specimens Saved R1: 137 R2: 130	Subsamples archived in ABC until Apr 2026

Taxa	Life Stage	Organism Count			Taxonomic Reference	Condition	Unique Taxon
		Rep 1	Rep 2	Rep 3			
Baetidae	L	1	0		MCB 2019	dam	N
Aeschna pygmaea	L	1	2		Klub 2016		
Baetis	L	1	0		MCB 2019	dam	
Isonychia anoka	L	1	1		Klub 2016		
Ephemera invaria	L	0	4		"		
Ephemera	L	1	0		MCB 2019	imm	
Neptaceniidae	L	0	1		"	dam	N
Epeorus vitreus	L	2	0		Klub 2016		
Leucophaea	L	4	4		MCB 2019		
Maccaffertium	L	3	8		Klub 2016	imm	N
M. modestum	L	3	0		"		
M. vicarium	L	3	5		"		
Stenocranus	L	0	1		MCB 2019	imm	
Isonychia	L	0	1		"	imm	
Tricorythodes	L	0	1		"		
Leptophlebia	L	0	1		"	imm	
Gomphidae	L	0	1		"	imm	N
Ophlogomphus	L	0	1		"	imm	
Acronicta lycaonias	L	1	0		Hitch 1974		
Taeniopteryx	L	1	2		MCB 2019	imm	
Ceratopsycha	L	2	0		Hils 1995	imm	Y
C. brenta	L	0	3		Schmitt 1986		
C. morosa	L	1	0		"	imm	
C. stlossonae	L	1	0		"		
Chamaetopsycha	L	0	2		MCB 2019		
Hydropsyche betteni	L	1	0		Schmitt 1986		
Leuctridia pictipes	L	0	2		Hils 1995		
Setodes	L	0	1		MCB 2019	imm	
Psychomyia flavida	L	0	2		Hils 1995		
Ophioservus	L	2	0		MCB 2019	imm	N
O. trivittatus	L	9	6		Hils Schmitt 1992		
Sternelmis crenata	A	1	1		"		
Psephenus henrici	L	2	0		Hils 1995		
Prohezia	L	0	1		"		
Chironominae	P	0	1		MCB 2019		N
Idemnodromia	L	3	0		"		
Andocha	L	0	1		"		
Phantolabis lacustris	L	1	1		Burch Gel 2019		
Hydrobiidae NOT P. antipodarum	A	1	3		Burch 1989		
Ferussia rivularis	A	4	3		Thorp Reg 2016		

Taxa	Life Stage	Organism Count			Taxonomic Reference	Condition	Unique Taxon
		Rep 1	Rep 2	Rep 3			
<i>Laevapex fuscus</i>	A	1	0		Thorp 1985 2016		
<i>Pisidium</i>	A	2	0		"		
<i>Sphaerium rhomboideum</i>	A	3	0		Mackie 2007		
<i>S. striatum</i>	A	2	0		"		
<i>Naidinae</i>	A	0	3		Kath Bain 1998		
<i>Spilotha chironomidae</i>	L	50	50	50			
<i>Spilotha chironomidae</i>	L	15	13	50			
<i>Nilotanytus</i>	L	1	0		Anderson et al 2013		
<i>Rhyacophila acuta</i> group	L	2	2		Epler 2001		
<i>Thienemannimyia</i>	L	0	1		Anderson et al 2013		
<i>Thienemannimyia</i> group	L	3	1		"	imm	N
<i>Prothemia basimaria</i> group	L	0	1		"		
<i>Orthocladius obscurus</i>	L	7	1		"	imm	N
<i>Orthocladius (Orthocladius) bicinctus</i> group	L	1	1		"		
<i>Diplocladius</i>	L	1	1		"		
<i>Eukiefferella brevis</i> group	L	1	0		"		
<i>Lepidocleus</i>	L	2	1		"		
<i>Orthocladius (Eukiefferella) nivalis</i>	L	1	0		Bolton 2012		
<i>O. (Orthocladius)</i>	L	3	7		Anderson et al 2013		
<i>Parakiefferella</i>	L	2	0		"		
<i>Parametopia</i>	L	2	0		"		
<i>Synorthocladius</i>	L	1	0		"		
<i>Tweedia bavaria</i> group	L	0	1		Bode 1983		
<i>T. discoloripes</i> group	L	0	1		"		
<i>Cladotanytarsus</i>	L	25	46		Anderson et al 2013		
<i>Cryptochironomus</i>	L	11	6		"		
<i>Microsestra</i>	L	4	9		"		
<i>Microtendipes pedellus</i> group	L	1	3		"		
<i>M. nydalensis</i> group	L	8	8		"		
<i>Niletharna</i>	L	1	0		"		
<i>Paratanytarsus species A</i>	L	0	1		Hils 1991		
<i>Polypedilum</i>	L	1	0		Anderson et al 2013	imm det	N
<i>P. (Polypedilum) illinoense</i> group	L	1	0		Bolton 2012		
<i>P. (P.) laetum</i> group	L	1	0		"		
<i>P. (Triopoda) scaberrimum</i> group	L	1	0		"		
<i>P. (Unipedilum) flavum</i>	L	9	19		"		
<i>Rhyacotanytarsus</i>	L	1	2		Anderson et al 2013		
<i>Stempellinella</i>	L	3	0		"		
<i>Sublettea</i>	L	0	1		"		

Taxonomist: Dimick, Jeffrey

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