

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name BILLINGS CREEK	Waterbody ID Code 1196900	Sample ID (YYYYMMDD-CY-FD) 20211101-63-01
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Sampling Location

✓ 20 m upstream CTH F	Database Key 292561384
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SWIMS Station ID
10009007

SWIMS Station Name
BILLINGS CREEK STATION #3 BRG. ON CTH F

Latitude

43.70646

Longitude

-90.54343

Lat/Long Determination Method (circle)

SWIMS SWDV GPS

Datum Used if using GPS

WGS84 or NAD83

Basin (WMU)

LOWER WISCONSIN

Watershed Name

MIDDLE KICKAPOO RIVER

County

VERNON

Sample and Site Descriptors

Sample Collector (Last Name, First)

KIMBERLY KUBER

Project Name

SCR LONG-TERM TREND WADEABLE REFERENCE STREAM

Sampling Device

☒ D-Frame Kick Net

Ponar

☐ Surber Sampler

☐ Artificial Substrate

☐ Eckman

☐ Hess Sampler

☐ Other: _____

Habitat Sampled

☒ Riffle

Other

☐ Littoral Zone

☐ Run

☐ Shoreline Composite

☐ Profundal Zone

☐ Pool

☐ Proportionally-Sampled Habitat

☐ Wetland

Total Sampling Time (min)

1

Estimated Area Sampled (m²)

1

Number of Samples in Composite

Replicate No. _____ of _____

Reason For Sampling

☐ Least Impacted Reference

☐ Control Site

☐ Baseline

☒ Trend

☐ Impact / Treatment Site

☐ Other: _____

Water Temp. (C)

6.1

D.O. (mg/l)

14.07

D.O. (% sat.)

113.6

pH (su)

Conductivity (umhos/cm)

Transparency (cm)

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): _____ Rubble (tennisball to basketball): 30 Gravel (ladybug to tennisball): 60

Sand: 10 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____

Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (): _____

Embeddedness of Substrate at Sample Site (%) 0 Canopy Cover at Sample Site (%) 100

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

For Lab Use Only

Sample Sorter <i>Klopping, Trent</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>Rep 1) 4.7% Rep 2) 0.9%</i>
Date Processed <i>10/30/2022 11/3/22</i>	Specimens Saved <i>Rep 1) 128 Rep 2) 138</i>	<i>subsamples archived in dnr lab 11/3/22</i>

Rep 1) A2 C4
Q3 52 Q4 23
Q1 53 Q1
Q4 Q2 128
Q2 Q3

Rep 2) C4 D2
Q3 5 Q4 19
Q1 16, 11 Q3 16 138
Q2 47 Q2 24
Q4 47 Q1 -

Wisconsin Department of Natural Resources

ABL SampleNum: 20211101-63-01

Taxonomist: Dimick, Jeffrey

Waterbody: Billings Creek
SWIMS Database Key: 292561384

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Taxa	Life Stage	Organism Count			Taxonomic Reference	Condition	Unique Taxon
		Rep 1	Rep 2	Rep 3			
<i>Baetis tricaudatus</i>	L	5	6		Klub 2016		
<i>B. flavistriga</i> species complex	L	3	1		"		
<i>Maccaffertium mediopunctatum</i>	L	0	1		"		
<i>Isoneria transmarina</i>	L	0	1		Hils 1982		
<i>Ceratopsyche alhedra</i>	L	2	0		Schm Hils 1986		
<i>C. branta</i>	L	1	2		"		
<i>C. slosonae</i>	L	1	1		"		
<i>Cheumatopsyche</i>	L	2	2		MCB 2019		
<i>Hydropsyche betteri</i>	L	1	3		Schm Hils 1986		
<i>Psychomyia flavida</i>	L	0	1		Hils 1995		
<i>Optroservus</i>	L	17	12		MCB 2019	imm	N
<i>O. fastidius</i> Z1 L, 6 A, 1 Z2 L, 4 A, 1	LA	7	5		Hils Schm 1992		
<i>Eukiefferiella</i>	P	0	1		MCB 2019		N
<i>Hemerodromia</i>	L	1	1		"		
<i>Simulium vittatum</i> species complex 08110217	L	1	4		Adler et al 2004		
<i>Gammarus pseudolimnacus</i>	A	1	0		Hils 1972		
<i>Naididae</i>	A	4	10		Kahn Bann 1998		
<i>Hydrobates</i>	A	0	1		Peck et al 1990		
<i>Sperchon</i>	A	1	2		"		
<i>Spilostethus</i> Chironomidae	L	18	3 (50)				
<i>Pogastia</i>	L	1	2		Ander et al 2013		
<i>Orthocladiinae</i>	L	3	8		"	imm	N
<i>Orthocladius obscurus</i>	L	2	0		Epler 2001		
<i>Cnephia</i> (<i>Cnephia</i>) <i>fremulus</i> group	L	0	1		Ander et al 2013		
<i>Eukiefferiella brehmii</i> group	L	4	4		"		
<i>E. daveyana</i> group	L	5	5		"		
<i>Orthocladius</i> (<i>Orthocladius</i>) <i>rivularum</i>	L	0	2		Bolton 2012		
<i>O. (Orthocladius)</i>	L	3	1		Ander et al 2013		
<i>Parametriocnemus</i>	L	2	1		"		
<i>Thienemanniella taurocapita</i>	L	1	0		Bolton 2012		
<i>Tretania bavarica</i> group	L	7	5		Bode 1983		
<i>T. discoloripes</i> group	L	6	17		"		
<i>Cladotanytarsus</i>	L	1	2		Ander et al 2013		
<i>Microtendipes pedellus</i> group	L	1	0		"		
<i>Polydora</i> (<i>Urosalpinx</i>) <i>aviceps</i>	L	3	3		Bolton 2012		
<i>P. (U.) flavum</i>	L	0	1		"		
<i>Rhyacotanytarsus</i>	L	47	47				