

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name FLUME CREEK	Waterbody ID Code 286600	Sample ID (YYYYMMDD-CY-FD) 20221018-69-04
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Sampling Location	Database Key 323921386
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SWIMS Station ID 10022532	SWIMS Station Name FLUME CREEK - DRAKE RD.
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Latitude	Longitude	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
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Basin (WMU) WOLF RIVER	Watershed Name UPPER LITTLE WOLF RIVER	County WAUPACA
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Sample and Site Descriptors

Sample Collector (Last Name, First) DAVID BOLHA	Project Name UPPER LITTLE WOLF RIVER TWA 2022
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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 (m²) 2.0	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: _____

Water Temp. (C) 6.0	D.O. (mg/l) 13.54	D.O. (% sat.) 111.2	pH (su) 8.22	Conductivity (umhos/cm) 494	Transparency (cm) 120
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Water Color <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained	Estimated Stream Velocity (m/s) <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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Measured Velocity circle units m/s or f/s	Average Stream Depth of reach (m) 0.7	Average Stream Width of reach (m) 6
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 80 Gravel (ladybug to tennisball): 10
 Sand: 10 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (____): _____

Embeddedness of Substrate at Sample Site (%) 30
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			Factors that may be influencing Water Resource Integrity		
Local	Water-shed		Local	Water-shed	
Biological			Chemical		
Algae: - Diatoms / Periphyton	N	N	Chlorine	N	N
- Filamentous Algae	N	N	Dissolved Oxygen	N	N
- Planktonic Algae	N	N	Nutrients (P, N...)	N	N
Iron Bacteria	N	N	Toxics: - Inorganic (Metals)	N	N
Macrophytes	N	N	- Organic (PCBs, pesticides...)	N	N
Slimes	N	N	Other - Specify:		
Other - Specify:			Sources of Stream Impacts		
			Bank Erosion	N	N
			Point Source - Specify:	N	N
Physical			Pasturing of Livestock	N	PL
Bank Erosion	N	N	Runoff: - Barnyard	N	PL
Channelization: - Upstream	N	N	- Construction	N	N
- Downstream	N	N	- Cropland	N	PL
Hydraulic Scour / Channel Incision	N	N	- Urban	N	N
Impoundment: - Upstream	N	N	Septic Systems	N	N
- Downstream	N	N	Tile Drainage - Organic Soils	N	N
Low Flow	N	N	- Mineral Soils	N	N
Sedimentation	PL	PL	Springs	N	N
Sludge	N	N	Tributary(s)	PL	PL
Thermal	N	N	Wetland	N	N
Turbidity	N	N	Other - Specify:		
Other - Specify:					

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter Reed, Kayla	Taxonomist Dimick, Jeffray	Estimated Percent of Sample Sorted 68.75%
Date Processed 2-28-2003	Specimens Saved 251 Subsample archived in ABI until Jun 2026	

C304-9 C102-4 D2-9
 Q3-2 Q1-5 C4-24
 Q1-3 Q4-19 B4-18
 Q2-7 Q3- C2-24
 11/10

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Baetidae	L	I	1	MCB 2019	imm	N
Baetis brunneicola	L	-III	8	Kubertanz 2016		
B. flavistriga species complex	L	-I	6	"		
Baetisca laurentina	L	XI	15	"		
Ephemerella	L	XIII	14	MCB 2019	imm	N
E. invaria	L	I	1	Kubertanz 2016		
Eurylophella	L	I	1	MCB 2019	imm	N
Telegonopsis deficiens	L	III	4	"		
Ephemera simulans	L	X	10	Kubertanz 2016		
Mallastertium	L	-I	6	"	imm	N
M. modestum	L	"	2	"		
M. vicarium	L	VI	21	"		
Stenocran	L	"	2	MCB 2019	imm	
Tricomphodes	L	-I	6	"		
Leptanthebra	L	III	4	"	imm	
Calopteryx maculata	L	"	2	West May 2006		
Paragnetina media	L	"	2	Hilsenhoff 1995		
Taeniopteryx	L	III	3	MCB 2019	imm	
Microsoma notum	L	"	2	Hilsenhoff 1995		
Ceratopsyche	L	I	1	Hilsenhoff 1995	imm	N
C. bronza	L	X	10	Schmitts 1966		
C. glassanae	L	III	3	"		
C. sparna	L	III	4	"		
Chromatopsyche	L	X-III	19	MCB 2019		
Hydropsyche betteni	L	I	1	Schmitts 1966		
Lepidostoma	L	I	1	MCB 2019		
Decets	L	"	2	"	imm	
Limnophilidae	L	III	3	"	imm	
Psychomyia flavida	L	XII	12	Hilsenhoff 1995		
Neophylax	L	"	2	MCB 2019	imm	
Dithiraphia	L	III	3	"		
Opiocercus	L	III	3	"	imm	N
O. fastidius	L	-I	6	Hils Schmitt 1997		
O. frivittatus	L/A	III	3	"		
Migronia semicornis	L	I	1	Neunzig 1966		
Brillia	P	I	1	MCB 2019		N
Nemoura	L	-I	5	"		

