

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name UNNAMED		Waterbody ID Code 410500	Sample ID (YYYYMMDD-CY-FD) 20190930-05-01
Sampling Location 20 m DS Culvert			Database Key 218829991
SWIMS Station ID 10033510		SWIMS Station Name UNNAMED TRIB.(410500)-MALCHOW DRIVE	
Latitude 44.596123	Longitude -88.016594	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
Basin (WMU) GREEN BAY		Watershed Name SUAMICO AND LITTLE SUAMICO RIVERS	County BROWN

Sample and Site Descriptors

Sample Collector (Last Name, First) ANDREW HUDAK	Project Name FOX RIVER AOC- NON-WADEABLE MACROINVERTEBRATE
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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) 6	Estimated Area Sampled (m²) 16	Number of Samples in Composite 1	Replicate No. 1 of 1
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Reason For Sampling

- | | | |
|---|-----------------------------------|--|
| ☐ Least Impacted Reference | ☐ Baseline | ☐ Impact / Treatment Site |
| ☐ Control Site | ☐ Trend | ☒ Other: _____ |

Water Temp. (C) 15.1	D.O. (mg/l) 5.3	D.O. (% sat.) 52.2	pH (su) 7.0	Conductivity (umhos/cm) 557	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)
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Measured Velocity circle units m/s or f/s	Average Stream Depth of reach (m) 1.5	Average Stream Width of reach (m) 7
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Composition of Substrate Sampled (Percent):

Bedrock: _____	Boulders (basketball or larger): _____	Rubble (tennisball to basketball): _____	Gravel (ladybug to tennisball): _____
Sand: 25	Clay: _____	Silt/Muck: 25	Overhanging Vegetation: 25
Aquatic Macrophytes: 25	Leaf Snags: _____	Coarse Woody Debris: _____	Other (): _____

Embeddedness of Substrate at Sample Site (%) 100	Canopy Cover at Sample Site (%) 60
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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	U	U	Chlorine	N	U
- Filamentous Algae	U	U	Dissolved Oxygen	U	U
- Planktonic Algae	U	U	Nutrients (P, N...)	U	U
Iron Bacteria	N	N	Toxics: - Inorganic (Metals)	N	N
Macrophytes	U	U	- Organic (PCBs, pesticides...)	U	U
Slimes	N	N	Other - Specify:		
Other - Specify:			Sources of Stream Impacts		
			Bank Erosion	N	U
			Point Source - Specify:	N	N
Physical			Pasturing of Livestock	N	N
Bank Erosion	N	N	Runoff: - Barnyard	N	N
Channelization: - Upstream	PL	PL	- Construction	N	U
- Downstream	N	N	- Cropland	N	U
Hydraulic Scour / Channel Incision	N	N	- Urban	N	U
Impoundment: - Upstream	PL	PL	Septic Systems	N	U
- Downstream	N	N	Tile Drainage - Organic Soils	U	U
Low Flow	U	U	- Mineral Soils	U	U
Sedimentation	N	N	Springs	U	U
Sludge	N	N	Tributary(s)	U	U
Thermal	N	N	Wetland	PL	PL
Turbidity	U	U	Other - Specify:		
Other - Specify:					

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter Eric Noas	Taxonomist Dimick, Jeffrey	Estimated Percent of Sample Sorted 7%
Date Processed 7/10/2020	Specimens Saved Subsample archived in ABL until Sept 2023	

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Wisconsin Department of Natural Resources

ABL SampleNum: 20190930-05-01

Taxonomist: Dimick, Jeffrey

Waterbody: Unnamed Tributary (410500)

SWIMS Database Key: 218829991

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Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Caenis diminuta</i>	L	"	2	Klob 2016		
<i>Coenagrionidae</i> <i>Coenagrion</i>	L	xii	12	Merrillum B 2019	imm	
<i>Trichocoryxa sexnotata</i>	A	i	1	Hils 1984a		
<i>Meoptera striola</i>	A	8-ii	37	"		
<i>Microvelia pulchella</i>	A	i	1	Hils 1986		
<i>Agraylea</i>	L	i	1	Merrillum B 2019		
<i>Oecetis</i>	L	i	1	"	imm	
<i>Elophila</i>	L	i	1	"		
<i>Halplus</i>	L	i	1	"		N
<i>H. immaculicollis</i>	A	iii	3	Hils Brig 1978		
<i>Gammarus pseudolimnaeus</i>	A	12-iii	28	Hils 1972		
<i>Nyalia wellborni</i>	A	8-iii	39	Soucek et al 2015		
<i>Caecidotea intermedia</i>	A	8-ii	37	Will 1972		
<i>Dugesidae</i>	A	iii	3	Thorp Reg 2016		
<i>Fossaria</i>	A	i	1	Brown 1981		
<i>Gyrinus deflexus</i>	A	"	2	Thorp Reg 2016		
<i>Prometopus exaratus</i>	A	-iii	9	Burch 1989		
<i>Physa</i>	A	ii	3	Thorp Reg 2016		
<i>Valvata tricarinata</i>	A	ii	2	Burch 1989		
<i>Dreissena polymorpha</i>	A	-i	6	Thorp Reg 2016		
<i>Tubificoides</i>	A	i		Brink 12 1991	post. frag	
<i>Split A2 Chironomidae</i>	L	omitted				
<i>Split A3 worms</i>	A	ii		etal		
<i>Coryanura</i>	L	i	1	Anders 2013		
<i>Chironomus</i>	L	ii	7	Anders et al 2013		
<i>Oscrotendipes</i>	L	i	1	"		
<i>Tanypodinae</i> 08210000	L	i	1	"	imm	
<i>Chironominae</i> 08330000	L	ii	2	"	imm	N
<i>Glyptotendipes</i>	L	ii	2	"		
<i>Microsectra</i>	L	i	1	"		
<i>Parachironomus arcuatus</i> group	L	i	1	"		
<i>Paratanytarsus species B</i>	L	ii	2	Hils unpubl		
<i>Polypedium (Polypedium) trigonus</i>	L	i	1	Bolton 2012		
<i>P.(P.) illinoense</i> group	L	iii	4	"		
<i>Pseudochironomus</i>	L	i	1	Anders et al 2013		
<i>Tanytarsus</i>	L	i	1	"		

Taxonomist: Dimick, Jeffrey

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[illegible]