

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name WATERCRESS CREEK		Waterbody ID Code 39000	Sample ID (YYYYMMDD-CY-FD) 20191024-60-03
Sampling Location 505			Database Key 221307433
SWIMS Station ID 10008873		SWIMS Station Name WATERCRESS CREEK - UPSTREAM OF WATERCRESS ROAD	
Latitude 43.717	Longitude -88.1307	Lat/Long Determination Method (circle) SWIMS SWDV <u>GPS</u>	Datum Used if using GPS <u>WGS84</u> or NAD83
Basin (WMU) MILWAUKEE RIVER		Watershed Name EAST AND WEST BRANCHES MILWAUKEE R	County SHEBOYGAN

Sample and Site Descriptors

Sample Collector (Last Name, First) CRAIG HELKER	Project Name SER LONG-TERM TREND WADEABLE REFERENCE STREAM
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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) 2	Estimated Area Sampled (m²) 1	Number of Samples in Composite	Replicate No. _____ of _____
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Reason For Sampling

Least Impacted Reference
 Baseline
 Impact / Treatment Site
 Control Site
 Trend
 Other: _____

Water Temp. (C) 8.39	D.O. (mg/l) 10.69	D.O. (% sat.) 93.1	pH (su)	Conductivity (umhos/cm) 603.8	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 checked="" type="checkbox"/> Slow (< 0.15 m/s) <input 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 0.2	circle units m/s or f/s	Average Stream Depth of reach (m) 0.2	Average Stream Width of reach (m) 3
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): 10 Rubble (tennisball to basketball): 20 Gravel (ladybug to tennisball): 30
 Sand: 40 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ 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
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 Logan Cutler	Taxonomist Dimrak, Jeffrey	Estimated Percent of Sample Sorted 16.7
Date Processed 10/26/2020	Specimens Saved 128 subsample archived in ABZ Lunk41 Dec 2023	

14 4 26 19 24 41
 E3Q4 A3Q2 E3Q1,2 A3Q3,4 E3Q3/A3Q1 D3Q1,2

4.3hr
 1 hr

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Glossosoma intermedium</i>	L	1	1	Wym Mar 2000		
<i>Ceratomyxa glossosomae</i>	L	1	1	Schmitts 1986		
<i>Ceratomyxa</i>	L	III	3	Merritt 2019		
<i>Hydropsyche betteni</i>	L	1	1	Schmitts 1986		
<i>Hydropsyche</i>	L	1	1	Hils 1985	imm	N
<i>Limnephilus</i>	L	IIII	4	Merritt 2019		
<i>Phlebotomus</i>	L	1	1	"		
<i>Sialis</i>	L	1	1	"		
<i>Optoservus</i>	L	IIIII	24	"	imm	N
<i>O-fasciditus</i> L, 16 A, 4	L, A	0	20	Hils Schmitts 1982		
<i>Chironomus</i>	L	1	1	Merritt 2019		
<i>Pilaria</i>	L	1	1	"		
<i>Gammarus pseudolimnaeus</i>	A	B1	21	Hils 1972		
<i>Caecidotea intermedia</i>	A	X-1	16	Will 1972		
<i>Procladius excavatus</i>	A	1	1	Thorp Reg 2016		
<i>Fossarria</i>	A	1	1	Thorp Reg 1991		
<i>Physa</i>	A	-11	7	Thorp Reg 2016		
<i>Physidium</i>	A	-	5	"		
<i>Enchytraeidae</i>	A	1	1	"		
<i>Tubificinae (with hairs)</i>	A	1	1	Kath Brin 1988		Y
<i>Tubificinae (without hairs)</i>	A	1	1	"		Y
<i>Glossiphonia elegans = G. complanata</i>	A	1	1	Thorp Reg 2016		
Salix A Chironomidae	L	XI 220				
<i>Procladius olivaceus</i>	L	1	1	And et al 2013		
<i>Cryptochironomus</i>	L	1	1	"		
<i>Microtendipes pedellus group</i>	L	1	1	"		
<i>Parameletia</i>	L	1	1	"		
<i>Tvetenia bavarica group</i>	L	1	1	Bode 1983		
<i>Chironominae 08330000</i>	L	1	1	And et al 2013	mt mdt	N
<i>Micropsectra</i>	L	IIII	4	"		
<i>Paratendipes</i>	L	III	3	"		
<i>Polypedilum (Polypedilum) lactum group</i>	L	1	1	Baldon 2012		