State of Wisconsin
Department of Natural Resources
PO Box 7291, Madison WI 53707-7291
dnr.wi.gov

Wadeable Macroinvertebrate Field Data Report

Form 3200-081 (R 8/14)

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

Station Summary

Waterbody Name	**Waterbody ID Code**	**Sample ID (YYYYMMDD-CY-FD)**
ROY CREEK	148200	20191024-24-03

Sampling Location	**Database Key**
	210965528

SWIMS Station ID	**SWIMS Station Name**
10021317	ROY CREEK 200 FEET ABOVE CTH O

Latitude	**Longitude**	**Lat/Long Determination Method (circle)**	**Datum Used if using GPS**
43.765923	-89.01914	SWIMS SWDV GPS	WGS84 or NAD83

Basin (WMU)	**Watershed Name**	**County**
UPPER FOX	BIG GREEN LAKE	GREEN LAKE

Sample and Site Descriptors

Sample Collector (Last Name, First)	**Project Name**
DAVID BOLHA	BIG GREEN LAKE TWA WQM PLAN (2017) 2019

Sampling Device

- [X] D-Frame Kick Net
- [ ] Surber Sampler
- [ ] Eckman
- [ ] Ponar
- [ ] Artificial Substrate
- [ ] Hess Sampler
- [ ] Other: _____

Habitat Sampled

- [X] Riffle
- [ ] Run
- [ ] Pool
- [ ] Other
- [ ] Shoreline Composite
- [ ] Proportionally-Sampled Habitat
- [ ] Littoral Zone
- [ ] Profundal Zone
- [ ] Wetland

Total Sampling Time (min)	**Estimated Area Sampled (m^2)**	**Number of Samples in Composite**	**Replicate No.** ____ **of** ____
2	1.5	1	

Reason For Sampling

- [ ] Least Impacted Reference
- [X] 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)**
8.2	11.2	97.2	8.0	639	120

Water Color

- [X] Clear
- [ ] Turbid
- [ ] Stained

Estimated Stream Velocity (m/s)

- [ ] Slow (< 0.15 m/s)
- [ ] Moderate (0.15 m/s - 0.5 m/s)
- [X] 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)**
	0.2	2.5

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 100 Gravel (ladybug to tennisball): _____

Sand: _____ Clay: _____ 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

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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
Biological		
Algae: - Diatoms / Periphyton	N	N
- Filamentous Algae	N	N
- Planktonic Algae	N	N
Iron Bacteria	N	N
Macrophytes	N	N
Slimes	N	N
Other - Specify:		
Physical		
Bank Erosion	PL	PH
Channelization: - Upstream	PH	PH
- Downstream	PH	PH
Hydraulic Scour / Channel Incision	PL	PH
Impoundment: - Upstream	N	N
- Downstream	N	N
Low Flow	N	N
Sedimentation	PL	PH
Sludge	N	N
Thermal	N	N
Turbidity	PL	PL
Other - Specify:		

Factors that may be influencing Water Resource Integrity	Local	Water-shed
Chemical		
Chlorine	N	N
Dissolved Oxygen	N	N
Nutrients (P, N...)	PH	PH
Toxics: - Inorganic (Metals)	N	N
- Organic (PCBs, pesticides...)	N	N
Other - Specify:		
Sources of Stream Impacts		
Bank Erosion	PL	PH
Point Source - Specify:	N	N
Pasturing of Livestock	N	N
Runoff: - Barnyard	N	N
- Construction	N	N
- Cropland	PH	PH
- Urban	N	N
Septic Systems	N	N
Tile Drainage - Organic Soils	PL	PH
- Mineral Soils	PL	PH
Springs	N	N
Tributary(s)	N	N
Wetland	N	N
Other - Specify:		

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter	Taxonomist	Estimated Percent of Sample Sorted
Isabel Dunn	Dimick, Jeffrey	70%
Date Processed	**Specimens Saved**	
11/23/2019	Subsample archived in NBL until Feb 2023	

C2-244

Wisconsin Department of Natural Resources
ABL SampleNum: **20191024-24-03**
Taxonomist: Dimick, Jeffrey

Waterbody: **Roy Creek**
SWIMS Database Key: **210965528**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
4/16 Ceratopsyche sparna	L	x-I	16	Schm Hols 1986		
Cheumatopsyche	L	IIII	4	Hils 1995		
Hydropsyche	L	xI	11	"	imm	N
H. betteni	L	x III	13	Schm Hils 1986		
3/17 Lepidostoma	L	I	1	Hils 1995		
Optioservus	L	III	3	Hils Schm 1992		
O. fastiditus	L	I	1	"		
Simulium vittatum species complex 08110217	L	II	2	Adl et al 2004		
Dicranota	L	II	2	Hils 1995		
Gammarus pseudolimnaeus	A	80II	62	Hols 1972		
Caecidotea intermedia	A	80-	65	Will 1972		
Lebertia	A	I	1	Pluchino 1984		
Torrenticolinae (without hairs)	A	-	5	Klemm 1985		
Physa	A	-III	8	ThorpRog 2016		
Pisidium	A	I	1	Mackie 2007		
Eukiefferiella	P	I	1	Ferr et al 2008		
Orthocladiinae 08300000	L	III	3	Cranston 2013	dam/imm	N
Nanocladius	L	I	1	And + 3 2013	imm	
Orthocladius (Orthocladius)	L	-II	7	"		
Parametriocnemus	L	I	1	"		
Tvetenia bavarica group	L	xI	11	Bode 1983		
Parakiefferiella	L	I	1	Epl et al 2013		
Polypedilum (Uresipedilum) aviceps	L	8	40	Bolton 2012		
Rheotanytarsus	L	x-IIII	19	Epl et al 2013		

< 3 taxa, TVAL ≤ 2.0