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)**
HAY CREEK	2151500	20171031-09-04

Sampling Location	**Database Key**
US bridge ~150m	150431326

SWIMS Station ID	**SWIMS Station Name**
10011032	HAY CREEK - HAY CREEK 3 HABLE PROPERTY

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

Basin (WMU)	**Watershed Name**	**County**
LOWER CHIPPEWA	DUNCAN CREEK	CHIPPEWA

Sample and Site Descriptors

Sample Collector (Last Name, First)	**Project Name**
MYCAL RALEIGH	WEST DISTRICT NC STREAM STRATIFIED SITES 2017

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.**
1/2 min (30 sec)	$1 m^2$	1	1 of 1

Reason For Sampling

- [ ] Least Impacted Reference
- [ ] Baseline
- [ ] Impact / Treatment Site
- [ ] Control Site
- [ ] Trend
- [X] Other: NCSR

Water Temp. (C)	**D.O. (mg/l)**	**D.O. (%sat.)**	**pH (su)**	**Conductivity (umhos/cm)**	**Transparency (cm)**

Water Color

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

Estimated Stream Velocity (m/s)

- [ ] Slow (< 0.15 m/s)
- [X] 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)**
	.25	4.5m

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): 5 Rubble (tennisball to basketball): 35 Gravel (ladybug to tennisball): 50

Sand: 5 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: 5

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

Embeddedness of Substrate at Sample Site (%) 5 **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	U
- Filamentous Algae	N	U
- Planktonic Algae	N	U
Iron Bacteria	N	U
Macrophytes	N	U
Slimes	N	U
Other - Specify:		
Physical		
Bank Erosion	N	U
Channelization: - Upstream	N	U
- Dow nstream	N	U
Hydraulic Scour / Channel Incision	N	U
Impoundment: - Upstream	N	U
- Dow nstream	N	U
Low Flow	N	U
Sedimentation	PL	U
Sludge	N	U
Thermal	N	U
Turbidity	N	U
Other - Specify:		

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

Comments Most of stream is deep runs/pools with long areas of aquatic veg. Little Sample consisted of few boulders, cobble, gravel, sand and overhanging veg. Cover all across stream, but well buffered. Most of substrate is silt/muck

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter	Taxonomist	Estimated Percent of Sample Sorted
Kaylee.wilcox	Dimick, Jeffrey	75%
Date Processed 6/15/18	Specimens Saved Subsample archived in OBL until Dec 2021	

BD = 128

Wisconsin Department of Natural Resources
ABL SampleNum: **20171031-09-04**
Taxonomist: Dimick, Jeffrey

Waterbody: **Hay Creek**
SWIMS Database Key: **150431326**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Amphinemura	L	IIII	4	Wils 1995	imm	
Prostoia	L	I	1	"	imm	
Isoperla	L	II	2	"	imm	N
I. slossonae	L	I	1	Wils 1982		
I. transmarina	L	-IIII	9	"		
Tremiopteryx	L	×IIII	14	Wils 1995	imm	
Ephemerella	L	I	1	Klub 2016	imm	N
E. perrucians	L	II	2	"		
Stenacron	L	I	1	"		
Maccaffertium vicarium	L	I	1	"		
Brachycentrus americanus	L	IIII	4	Wils 1995		
B. occidentalis	L	I	1	"		
Oxyethira	L	-	5	Wils 1995		
Hydropsyche	L	I	1	"	imm	
Ceratopsyche slossonae	L	IV	3	Schm Wils 1986		
Neophylax	L	I	1	Wils* 1995	imm	
Optioservus	L	IIII	4	Wils Schm 1982	imm	N
O. fastiditus	L	II	2	"		
Simulium vittatum species complex 08110218	L	III	3	Adler et al 2004		
Dicranota	L	II	2	Wils 1995		
Tipula	L	II	2	"		
Caecidotea racovitzai racovitzai	A	X-II	17	Will 1972		
Mermithidae	A	I	1	Thorp Rog 2016	imm	
Dugesiidae	A	I	1	"		
Naididae	A	I	1	Brinkhurst 1994		
Tubificinae (without hairs)	A	I	1	Klemm 1985		
Pisidium	A	I	1	Burch 1972		
~~Smit A3 Chironomidae~~	~~L~~	~~I-JSD~~				
Tanypodinae 08270000	L	I	1	Cranston 2013	imm	N
Conchapelopia	L	III	3	Cranston 2013		
Diamesa	L	I	1	Saether 2013		
Orthocladiinae 06300000	L	I	1	Cranston 2013	mt undet	N
Eukiefferiella claripennis group	L	I	1	Adler+3 2013		
Parametriocnemus	L	III	4	"		
Thienemanniella	L	I	1	"	imm	
Nanocladius	L	I	1	"	imm	

40

>3 taxa, TVAL ≤ 2.0

32 > (10.1 × III)

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Orthocladius (Symposiocladius) annectens	L	1	1	Epler 2001		
Chironominae 09330000	L	1	1	Cranston 2013	mt mdet	N
Micropsectra	L	1	1	Epl etal 2013		
Microtendipes rydalensis group	L	-1	6	"		
Polypedilum (Uresipedilum) aviceps	L	/	5	Bolton 2012		
Rheotanytarsus	L	x-111	18	Epl etal 2013		
Tanytarsus	L	1	1	"		