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)**
Trade River		20190904-07-~~55~~ 02

Sampling Location	**Database Key**
at Carl Berg Rd	204308385

SWIMS Station ID	**SWIMS Station Name**
10052622	TRADE RIVER AT CARL BERG RD

Latitude	**Longitude**	**Lat/Long Determination Method (circle)**	**Datum Used if using GPS**
45.67206	-92.65530	SWIMS SWDV (GPS)	(WGS84) or NAD83

Basin (WMU)	**Watershed Name**	**County**
ST. CROIX	TRADE RIVER	BURNETT

Sample and Site Descriptors

Sample Collector (Last Name, First)	**Project Name**
CRAIG P ROESLER, CHANG VANG	NORTH DISTRICT NC STREAM STRATIFIED SITES 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.**
1.5	1.5	3	1 of 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)**
18.8	9.4	104	8.2	211	>120

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	**Average Stream Depth of reach (m)**	**Average Stream Width of reach (m)**
0.3	(m/s) or f/s	0.6	8

Composition of Substrate Sampled (Percent):

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

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

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

Embeddedness of Substrate at Sample Site (%) 0 **Canopy Cover at Sample Site (%)** 50

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

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

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter	Taxonomist	Estimated Percent of Sample Sorted
Eric Naas	Dimick, Jeffrey	13%
Date Processed	**Specimens Saved**	
7/30/20	subsample archived in ABL until Oct 2023	

BZ DZ
76 153 = 229

Wisconsin Department of Natural Resources
ABL SampleNum: **20190904-07-02**
Taxonomist: Dimick, Jeffrey

Waterbody: **Trade River**
SWIMS Database Key: **204308385**

	Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
	Baetidae	L	III	3	MCB 2019	dam	N
	Baetis	L	II	2	MerrlummB 2019	dam	N
	B. intercalaris	L	IIII	23	Klub 2016		
	B. flavistriga species complex	L	IIII	34	"		
	Isonychia anoka	L	II	7	"		
	Caenis	L	I	1	MerrlummB 2019	imm	
1/4	Telosanopsis deficiens	L	IIII	4	"		
	Maccaffertium	L	IIII	25	Klub 2016	imm	Y
	M. mediopunctatum	L	IIII	42	"		
	Stenacron	L	II	2	MerrlummB 2019	imm	
	Caloperyscidae	L	I	1	"	imm	N
	Hetaerina americana	L	I	1	West May 2006		
	Argia	L	II	2	MerrlummB 2019	dam/imm	
1/4	~~Hydropsyche~~ Hydropsychidae borealis	L	III	3	Hils 1995		
	Hydropsychidae	L	I	1	MerrlummB 2019		
	Ceratopsyche	L	IIII	5	Hils 1995	imm	N
	C. bronta	L	II	2	SchmHils 1986		
	C. morosa bifida form	L	III	3	"		
2/5	C. sparna	L	I	1	"		
3/4	C. walkeri	L	II	2	"		
	Cheumatopsyche	L	XII	12	MerrlummB 2019		
	Hydropsyche	L	III	3	Hils 1995	imm	N
	H. betteni	L	XII	13	SchmHils 1986		
	Diplectrona	L	I	1	MerrlummB 2019		
4/8	Psychomyia flavida	L	I	1	Hils 1995		
	Corycalus corvutus	L	III	3	"		
	Macronychus glabratus	A	I	1	Hils Schm 1992		
	Optioservus	L	I	1	MerrlummB 2019	imm	
	Stenelmis	L	XIII	13	"		N
	S. crenata	A	I	1	Hils Schm 1992		
	S. sandersoni	A	III	3	"		
5/12	Atherix variegata	L	IIII	4	Hils 1995		
	Simulium	L	I	1	MerrlummBerg 2019	imm	N
	S. venustum species complex	L	IIII	4	Adl et al 2004		
	S. vittatum species complex 08110217	L	XI	11	"		
	Polypedilum	P	I	1	MerrlummB 2019		N
	Dugesiidae	A	II	2	ThorpBerg 2016		
	Enchytraeidae	A	I	1	"		

<3 taxa, TVAL ≤ 2.0

12 (0.1 × 193)

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Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
~~Split Az. Chironomidae~~	L	x WD				
Conpnevra	L	1	1	And et al 2013		
Tvetenia discoloripes group	L	1	1	Bode 1983		
Stenochironomus	L	1	1	And et al 2013		
Thienemanniniyia group	L	11 WD	2	"	1mm	
Cricotopus	L	1	1	"		
Microtendipes rydalensis group	L	1	1	"		
Polypedilum (Uresipedilum) flavum	L	1	6	Bolton 2012		