

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name ONION RIVER	Waterbody ID Code 51200	Sample ID (YYYYMMDD-CY-FD) 20181116-60-02
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Sampling Location R.M.	Database Key 168915231
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SWIMS Station ID 10031890	SWIMS Station Name ONION RIVER - UPSTREAM OF RISSEEUW ROAD
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Latitude 43.60277	Longitude 87.87245	Lat/Long Determination Method (circle) SWIMS SWDV <u>GPS</u>	Datum Used if using GPS WGS84 or NAD83
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Basin (WMU) SHEBOYGAN	Watershed Name ONION RIVER	County SHEBOYGAN
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Sample and Site Descriptors

Sample Collector (Last Name, First) CRAIG HELKER	Project Name ONION RIVER EASTERN DISTRICT TWA 2018
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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) 1	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: TWA

Water Temp. (C) 25.6	D.O. (mg/l) 13.63	D.O. (% sat.) 102.4	pH (su)	Conductivity (umhos/cm) 715.7	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 5 circle units m/s or f/s	Average Stream Depth of reach (m) .7	Average Stream Width of reach (m) 8
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): _____ Gravel (ladybug to tennisball): 30
 Sand: 50 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: 20 Other (_____): _____

Embeddedness of Substrate at Sample Site (%) 70
Canopy Cover at Sample Site (%) 100

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:			
				Pasturing of Livestock			
Physical				Runoff: - Barnyard			
Bank Erosion				- Construction			
Channelization: - Upstream				- Cropland			
- Downstream				- Urban			
Hydraulic Scour / Channel Incision				Septic Systems			
Impoundment: - Upstream				Tile Drainage - Organic Soils			
- Downstream				- Mineral Soils			
Low Flow				Springs			
Sedimentation				Tributary(s)			
Sludge				Wetland			
Thermal				Other - Specify:			
Turbidity							
Other - Specify:							

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter Kiersten Czarnecki	Taxonomist Dimick, Jeffrey	Estimated Percent of Sample Sorted 20%
Date Processed 4/2/2019	Specimens Saved 159 subsample archived on DB2 until Jun 2022	

E3=56
 A1=67
 A3=28
 E3
 DT=
 E2=
 +8 = 1159

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Stenocrion interpunctatum</i>	L	1	1	Kub 2016		
<i>Maccaffertium terminatum</i>	L	1	1	"		
<i>Hebaerina americana</i>	L	1	1	West May 1996		
<i>Cheumatopsyche</i>	L	"	2	Hils 1995		
<i>Macronychus glabratus</i>	L	1	1	Hils Schm 1992		
<i>Stenelmis</i>	L	"	2	"		
<i>Simulium vittatum</i> species complex 08110217	L	"	2	Adl et al 2004		
<i>Sperchon</i>	A	1	1	Pluch 1984		
Dugesidae	A	1	1	Thorp Bog 2016		
Tubificidae (without hairs)	A	1	1	Klemm 1985		
Pisidium	A	1	1	Burch 1972		
Sphaerium	A	"	3	"		
Split A3 Chironomidae	L	JSD				
<i>Thienemannimyia</i> group	L	"	2	Cran Epl 2013	imm	
<i>Eukiefferiella clarensis</i> group	L	xiii	24	And + 3 2013		
<i>Parakiefferiella</i>	L	1	1	"		
<i>Thienemannella xena</i>	L	1	1	Bolton 2012		
<i>Othocladius (Othocladius) oliveri</i>	L	1	1	Epler 2001		
Chironominae 08330000	L	"	2	Cranston 2013	mt indet/ dam	N
<i>Ciaodotanytarsus</i>	L	0-iiii	29	Epl et al 2013		
<i>Cryptochironomus</i>	L	"	2	"		
<i>Oicrotendipes</i>	L	1	1	"		
<i>Microtendipes pedellus</i> group	L	iiii	4	"		
<i>Paraleterbomella nigrohalterale</i>	L	"	2	"		
<i>Polypedium (Polypedium) fallax</i> group	L	1	1	Bolton 2012		
<i>P.(P.) illinoense</i> group	L	iiii	4	"		
<i>P.(Tripodura) scaberrimum</i> group	L	-iii	8	"		
<i>P.(Uresipedilum) flavum</i>	L	81	41	"		
<i>Rheotanytarsus</i>	L	-ii	7	Epl et al 2013		
<i>Stictochironomus</i>	L	"	2	"		
<i>Tanytarsus</i>	L	1	1	"		

< 3 taxa, TVAL 52.0