

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name JOHNSON CREEK		Waterbody ID Code 1540800	Sample ID (YYYYMMDD-CY-FD) 20190925 20190925 JohnCkK
Sampling Location upstream from Johnson Creek Rd.		Database Key 207141889 -641-01	
SWIMS Station ID 643615	SWIMS Station Name JOHNSON CREEK - NEAR WOODRUFF WI		
Latitude 45.89967	Longitude 89.73533	Lat/Long Determination Method (circle) SWIMS SWDV <u>GPS</u>	Datum Used if using GPS <u>WGS84</u> or NAD83
Basin (WMU) UPPER WISCONSIN	Watershed Name UPPER TOMAHAWK RIVER	County VILAS	

Sample and Site Descriptors

Sample Collector (Last Name, First) ALAN W WIRT, TYNKA JEWSKI	Project Name MISHONAGON CREEK - TOMAHAWK RIVER TWA
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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) 21 min	Estimated Area Sampled (m ²) 3 m ²	Number of Samples in Composite 1	Replicate No. <u>1</u> of <u>1</u>
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Reason For Sampling

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

Water Temp. (C) 17.5	D.O. (mg/l) 7.73	D.O. (% sat.) 80.9	pH (su) 7.60	Conductivity (umhos/cm) 184.8	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 type="checkbox"/> Slow (< 0.15 m/s) <input checked="" 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 9	circle units m/s or f/s	Average Stream Depth of reach (m) 0.30	Average Stream Width of reach (m) 3
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): _____ Gravel (ladybug to tennisball): _____
 Sand: _____ Clay: _____ Silt/Muck: _____ Overhanging Vegetation: 10
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: 90 Other (_____): _____
 Embeddedness of Substrate at Sample Site (%) 20 Canopy Cover at Sample Site (%) 0

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 *Very clear stream, with 95% sand bottom
 wood abund. Primary sampler/wake w/s Kicker Event wood present.*

Special Instructions for Laboratory

34 2E = 34 3A = 58
 23 1D = 39 Total = 131

For Lab Use Only		
Sample Sorter <i>Murphy Steinhilber</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>20%</i>
Date Processed <i>1/15/2020</i>	Specimens Saved <i>Subsample archived in OBL until Mar 2023</i>	

Taxa	Life Stage	Benthic Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Baetis flavistriga</i> species complex	L	m	3	Klub 2016		
<i>Acentrella parvula</i>	L	l	1	"		
<i>Maccaffertium</i>	L	x-l	16	"	imm	Y
<i>M. vicarium</i>	L	l	1	"		
<i>Stenacron</i>	L	l	1	"	imm	
Calopterygidae	L	l	1	West May 1986	imm	
Hydropsychidae	L	ll	2	Hils 1985	imm	N
<i>Ceratopsyche brenta</i>	L	-l	6	Schm Hils 1986		
<i>C. sparna</i>	L	ll	2	"		
<i>Cheumatopsyche</i>	L	ll	2	Hils 1985		
<i>Hydropsyche</i>	L	l	1	"	imm	N
<i>H. betteni</i>	L	or	25	Schm Hils 1986		
<i>H. simulans</i>	L	lll	3	"		
<i>Ceratopsyche</i>	L	l	1	Hils 1985	imm	N
<i>Nemerochroma</i>	L	ll	2	Court Meir 2008		
<i>Simulium</i>	L	lll	3	Adl et al 2004	imm	N
<i>Simulium</i> 08110245 (<i>sim. n=1</i>, <i>venust. n=1</i>, <i>vitt. n=1</i>)	P	lll	3	"		N
<i>S. venustum</i> species complex	L	lll	3	"		
<i>S. vittatum</i> species complex 08110218	L	x-lll	19	"		
Naidinae	A	-lll	8	Bainfield 1991		
<i>Pisidium</i>	A	x-l	11	Mackie 2007		
<i>Cricotopus</i> (<i>Cricotopus</i>) <i>bicinctus</i>	P	l	1	Coff et al 1986		N
<i>Tvetenia</i>	P	l	1	Ferret et al 2008		N
Chironomidae 08250000	L	l	1	Cran Nely 2008	mtndet	N
<i>Conchapelona</i> 08270700	L	ll	2	Cran Epl 2013		
<i>Zarembkomyia</i>	L	l	1	"		
Orthocladiinae 08300000	L	lll	3	Cranston 2013	imm	N
Tanyptodinae 08270700	L	l	1	"	mtndet	N
<i>Cricotopus</i> (<i>Cricotopus</i>) <i>bicinctus</i> group	L	lll	3	And + 3 2013		
<i>Orthocladius</i> (<i>Orthocladius</i>)	L	l	1	"		
<i>Parametriacnemus</i>	L	ll	2	"		
<i>Synorthocladius</i>	L	-l	6	"		
<i>Tvetenia bavarrica</i> group	L	-	5	Bode 1983		
<i>Thremmannella</i>	L	l	1	And + 3 2013	2am	N
Chironominae 08330000	L	ll	2	Cranston 2013	imm	N
<i>Cladotanytarsus</i>	L	lll	3	Epl et al 2013		
<i>Cryptochironomus</i>	L	ll	2	"		

3 taxa, TUAL ≤ 20

9 > (0.1 v 83)

