

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name MISHONAGON CREEK	Waterbody ID Code 1539900	Sample ID (YYYYMMDD-CY-FD) 20190925 MISCRK01
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Sampling Location D/S from Station END near bridge.	Database Key 207142521 -64-03
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SWIMS Station ID 10012797	SWIMS Station Name MISHONAGON CREEK - 368M BELOW SHUCHA'S LANDING
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Latitude 45.92136	Longitude 89.75616	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
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Basin (WMU) UPPER WISCONSIN	Watershed Name UPPER TOMAHAWK RIVER	County VILAS
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Sample and Site Descriptors

Sample Collector (Last Name, First) ALAN WIRT	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) 31	Estimated Area Sampled (m²) 4	Number of Samples in Composite 1	Replicate No. _____ of _____
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Reason For Sampling

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

Water Temp. (C) 14.7	D.O. (mg/l) 6.12	D.O. (% sat.) 60.2	pH (su) 6.94	Conductivity (umhos/cm) 88.3	Transparency (cm) 73 cm
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Water Color <input type="checkbox"/> Clear <input type="checkbox"/> Turbid <input checked="" 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 38.2	circle units <input checked="" type="radio"/> m/s or <input type="radio"/> f/s	Average Stream Depth of reach (m) .6	Average Stream Width of reach (m) 13
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Composition of Substrate Sampled (Percent):

Bedrock: _____
 Boulders (basketball or larger): _____
 Rubble (tennisball to basketball): _____
 Gravel (ladybug to tennisball): 80

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

Aquatic Macrophytes: _____
 Leaf Snags: 10
 Coarse Woody Debris: 10
 Other (): _____

Embeddedness of Substrate at Sample Site (%) 10
Canopy Cover at Sample Site (%) 60

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			Factors that may be influencing Water Resource Integrity		
Local	Water-shed		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 *Site contained mostly loose gravel, with sand and overhanging Alders. Stained water.*

Special Instructions for Laboratory

3D = 178

Total = 178

For Lab Use Only

Sample Sorter <i>Murphy St. W. Jr.</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>62% to 70%</i>
Date Processed <i>1/15/2020</i>	Specimens Saved <i>Subsample archived in ABC until Mar 2023</i>	

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Baetis flavistriga</i> species complex	L	xii	12	Klub 2016		
<i>Ismaean arnoka</i>	L	iiii	4	"		
<i>Labrobaetis frontalis</i>	L	i	1	"		
<i>Baetisca laurentina</i>	L	iiii	4	"		
<i>Caenis</i>	L	i	1	"	imm	N
<i>Ephemera</i>	L	i	1	"	imm	
<i>Tricoxthodes</i>	L	i	1	"		
<i>Calopteryx</i>	L	ii	2	West May 1986	imm	
<i>Taeniopteryx</i>	L	-ii	7	Hils 1985	imm	
<i>Ceratopsyche bronxa</i>	L	i	1	Schm Hils 1986		
<i>C. verna</i>	L	0	20	"		
<i>Cheumatopsyche</i>	L	-ii	7	Hils 1985		
<i>Hydropsyche betteni</i>	L	iiii	4	Schm Hils 1986		
Limnephilidae	L	i	1	Hils 1985	imm	
Polycentropodidae	L	i	1	"	dam	
<i>Optioservus</i>	L	ii	2	Hils Schm 1982	imm	N
<i>O. fastidiosus</i>	L	-i	6	"		
<i>Stenelmis</i>	L	i	1	"		
Ceratopogonidae	L	i	1	Hils 1985	imm	
<i>Simulium</i> <u>Svenust50</u>	P	i	1	Adl et al 2004		N
<i>S. venustum</i> species complex	L	ii	2	"		
<i>Tipula</i>	L	i	1	Hils 1985		
<i>Hyalella azteca</i>	A	i	1	Sweet et al 2015		
Hydrobiidae NOT P. antropeidarum	A	iiii	4	Burch 1989		
<i>Pisidium</i>	A	iii	3	Mackie 2007		
Naicidae	A	i	1	Brinbold 1981		
Tubificonae (with hairs)	A	i	1	Klemm 1985		
Split A3 Chironomidae	L	iiii 50				
Tanypterae 08270000	L	i	1	Cranston 2013	imm	N
<i>Thienemannimyia</i> group	L	i	1	Cran Ep 1 2013	imm	
<i>Zaurelmyia</i>	L	i	1	"		
Orthocladiinae 08300000	L	i	1	Cranston 2013	imm	N
<i>Brillia</i>	L	ii	2	Adl + 3 2013	imm	N
<i>B. flavifrons</i>	L	i	1	Epler 2001		
<i>Compneura</i>	L	ii	2	Adl + 3 2013		
<i>Diplocladius</i>	L	ii	2	"		
<i>Parachaetocladius</i>	L	i	1	"		

