

Instructions: Bold fields must be completed.

Station Summary						
Waterbody Name DEER CREEK			Waterbody ID Code 2893600		Sample ID (YYYYMMDD-CY-FD) 20171012-02-05	
Sampling Location Upstream STH 13					Database Key 149272310	
SWIMS Station ID 10048787		SWIMS Station Name DEER CREEK 430M UPSTREAM OF CONFLUENCE WITH WHITE RIVER				
Latitude 46.51260	Longitude -90.84268		Lat/Long Determination Method (circle) SWIMS SWDV GPS		Datum Used if using GPS WGS84 or NAD83	
Basin (WMU) LAKE SUPERIOR			Watershed Name WHITE RIVER		County ASHLAND	
Sample and Site Descriptors						
Sample Collector (Last Name, First) JOSEPH CUNNINGHAM				Project Name NORTH DISTRICT NC STREAM STRATIFIED SITES 2017		
Sampling Device						
<input checked="" type="checkbox"/> D-Frame Kick Net <input type="checkbox"/> Surber Sampler <input type="checkbox"/> Eckman <input type="checkbox"/> Ponar <input type="checkbox"/> Artificial Substrate <input type="checkbox"/> Hess Sampler <input type="checkbox"/> Other: _____						
Habitat Sampled						
<input checked="" type="checkbox"/> Riffle <input type="checkbox"/> Run <input type="checkbox"/> Pool <input type="checkbox"/> Other <input type="checkbox"/> Shoreline Composite <input type="checkbox"/> Proportionally-Sampled Habitat <input type="checkbox"/> Littoral Zone <input type="checkbox"/> Profundal Zone <input type="checkbox"/> Wetland						
Total Sampling Time (min) 1 m	Estimated Area Sampled (m ²) 2 m ²		Number of Samples in Composite 4-15 second KICKS		Replicate No. _____ of _____	
Reason For Sampling						
<input type="checkbox"/> Least Impacted Reference <input type="checkbox"/> Baseline <input type="checkbox"/> Impact / Treatment Site <input type="checkbox"/> Control Site <input type="checkbox"/> Trend <input type="checkbox"/> Other: <u>Natural Community Stratified</u>						
Water Temp. (C) 9.6	D.O. (mg/l) 10.9	D.O. (%sat.) 95.6	pH (su) 7.6	Conductivity (umhos/cm) 284	Transparency (cm) 7120	
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)			
Measured Velocity 0.3		circle units m/s or f/s	Average Stream Depth of reach (m) 0.3 m		Average Stream Width of reach (m) 3.5 m	
Composition of Substrate Sampled (Percent):						
Bedrock: _____		Boulders (basketball or larger): _____	Rubble (tennisball to basketball): _____		Gravel (ladybug to tennisball): 80	
Sand: 20		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%			

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		U	U	Toxics: - Inorganic (Metals)			
Macrophytes				- Organic (PCBs, pesticides...)			
Slimes				Other - Specify:			
Other - Specify:				Sources of Stream Impacts			
				Bank Erosion		PH	PH
				Point Source - Specify:			
				Pasturing of Livestock			
				Runoff: - Barnyard			
				- Construction			
				- Cropland			
				- Urban			
				Septic Systems			
				Tile Drainage - Organic Soils			
				- Mineral Soils			
Bank Erosion		PH	PH	Springs		U	PL
Channelization: - Upstream				Tributary(s)		U	PL
- Downstream				Wetland		U	U
Hydraulic Scour / Channel Incision				Other - Specify:			
Impoundment: - Upstream							
- Downstream							
Low Flow							
Sedimentation							
Sludge							
Thermal							
Turbidity							
Other - Specify:							

Comments

Major flood impacts from 2016, sand dominated, a few gravel areas

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter <i>Sam Lamarche</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>13%</i>
Date Processed <i>9/19/18</i>	Specimens Saved <i>Subsample archived in ABL until Dec 2021</i>	

*A1 C1
 56 98 = 154 total*

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Alloceponia	L	OWS	25	Hols 1995		
14 Paracornia angulata	L	1	1	Hitch 1974		
Isometra	L	1	1	Hols 1995	imm	
76 Taeniopteryx	L	x	15	"	imm	
Baetis brunneicolor	L	1	1	Klub 2016		
B. flavistriga species complex	L	x	15	"		
Cnemis	L	ii	2	"	imm	
Ephemerella	L	"	2	"	imm	
Maccaffertium	L	ii	2	"	dev/imm	N
22 M. vicarium	L	iii	4	"		
Leptophlebiidae	L	iii	3	"	dev/imm	N
Leptophlebia	L	xi	11	"	imm	N
L. cupida	L	ii	2	"		
Hydropsyche betteri	L	ii	2	Schum Hols 1986		
Ceratopsyche alhedra	L	-ii	7	"		
1 C. mrossa mrossa form	L	1	1	"		
C. slossonae	L	ii	2	"		
23 C. sparna	L	ii	2	"		
Antiochenevus	L	i	1	Hols Schum 1992	imm	
Nemerochroma	L	iii	4	Court Merr 2009		
Simulium vittatum species complex DS110218	L	ii	2	Bol et al 2004		
Antocha	L	ii	2	Hols 1995		
Isonychia	L	1	1	"		
Tipula	L	-1	6	"		
Gammarus	A	1	1	Hols 1972	imm	
Lebertia	A	ii	2	Pluchino 1984		
Sprecheropsis	A	1	1	"		
Maidinae	A	iii	3	Brin Geld 1991		
Tubificinae (without hairs)	A	ii	2	Klemm 1985		
Physa	A	1	1	Thorp Proc 2016		
Pisidium	A	1	1	Thorp 1972		
Spilobolus chinensis	L	iii-iv				
Coninopelopia	L	ii	2	Gran Epl 2013		
Baileya	L	1	1	Andert 3 2013		
Parametriocnemus	L	1	1	"		
Ciacotanytarsus	L	1	5	Epl et al 2013		

> 3 taxa, TVAL ≤ 2.0

23 > (0.1 x 134)

