

Instructions: Bold fields must be completed.

Station Summary		Waterbody ID Code	Sample ID (YYYYMMDD-CY-FD)
Waterbody Name PENN HOLLOW CREEK		1237300	20171003-25-01
Sampling Location		Database Key 150534790	
SWIMS Station ID 10030091	SWIMS Station Name PENN HOLLOW 1A		
Latitude 43.133057	Longitude -90.2178	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
Basin (WMU) LOWER WISCONSIN		Watershed Name OTTER AND MORREY CREEKS	County IOWA
Sample and Site Descriptors		Project Name	
Sample Collector (Last Name, First) JEAN UNMUTH		SOUTH DISTRICT NC STREAM STRATIFIED SITES 2017	
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) 5.0	Estimated Area Sampled (m ²) 4.0	Number of Samples in Composite 10	Replicate No. _____ of _____
Reason For Sampling			
☐ Least Impacted Reference ☐ Baseline ☐ Impact / Treatment Site			
☐ Control Site ☐ Trend ☒ Other: <u>NC Stratified</u>			
Water Temp. (C)	D.O. (mg/l)	D.O. (% sat.)	pH (su)
Conductivity (umhos/cm)		Transparency (cm)	
Water Color		Estimated Stream Velocity (m/s)	
☐ Clear ☒ Turbid ☐ Stained		☒ Slow (< 0.15 m/s) ☐ Moderate (0.15 m/s - 0.5 m/s) ☐ Fast (> 0.5 m/s)	
Measured Velocity	Average Stream Depth of reach (m)	Average Stream Width of reach (m)	
circle units m/s or f/s	0.30	1.0	
Composition of Substrate Sampled (Percent):			
Bedrock: _____	Boulders (basketball or larger): _____	Rubble (tennisball to basketball): _____	Gravel (ladybug to tennisball): <u>20</u>
Sand: _____	Clay: _____	Silt/Muck: <u>10</u>	Overhanging Vegetation: <u>20</u>
Aquatic Macrophytes: _____	Leaf Snags: <u>10</u>	Coarse Woody Debris: <u>60</u>	Other (): _____
Embeddedness of Substrate at Sample Site (%) <u>50</u>		Canopy Cover at Sample Site (%) <u>80</u>	

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

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter	Taxonomist	Estimated Percent of Sample Sorted
Kyle Wilcox	Dimick, Jeffrey	90%
Processed 7/27/18	Specimens Saved	
Subsample archived in ABC Unit Nov 2021		

D2=36 B1=29
20 51-11 01 00

Wisconsin Department of Natural Resources

ABL SampleNum: 20171003-25-01

Taxonomist: Dimick, Jeffrey

Waterbody: Penn Hollow Creek

SWIMS Database Key: 150534790

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	Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
	<i>Baetis brunneicollis</i>	L	21	21	Hils 2016		
	<i>B. flavistriga</i> group	L	1	1	"		
	<i>Aeshna interrupta</i>	L	11	2	Need et al 2000		
1/1	<i>Boyeria vinosa</i>	L	1	1	"		
3/4	<i>Brachycentrus occidentalis</i>	L	111	3	Hils 1985		
	<i>Chumatopsyche</i>	L	1	1	Hils 1985		
	<i>Hydropsyche betteri</i>	L	11	2	Schmidt 1986		
	<i>Ceratopsyche slovicana</i>	L	111	3	"		
3/8	<i>C. spuma</i>	L	111	4	"		
	<i>Helophus strabus</i>	A	111	3	Hils 1992		
	<i>Chrysomelidae</i>	L	1	1	White 2008		
	<i>Simulium vittatum</i> species complex 08110217	L	1	1	Adl et al 2001		
	<i>Simulium</i>	P	1	1	"		N
	<i>Tanyta</i>	L	111	8	Hils 1985		
	<i>Orthocladinae</i> 08300001	P	1	1	Fern et al 2008	dam	N
	<i>Dicranotendipes</i>	P	1	1	"		
	<i>Gammarus pseudolimnoides</i>	A	8-1	36	Hils 1972		
	<i>Caecidotea intermedia</i>	A	1	1	Will 1972		
	<i>Mermithidae</i>	A	1	1	Thorp 2016	imm	
	<i>Oncometopia virilis</i>	A	1	1	Hobbs 1988		
	<i>Aquarius remigis</i>	A	1	1	Hils 1986		
	<i>Tubificinae</i> (without hairs)	A	1	1	Klemm 1985		
	<i>Physa</i>	A	1	1	Thorp 2016		
	Split A3 Chironomidae	L	111-111				
	<i>Thienemannimyia</i> group	L	1	1	Cran 2013	imm	
	<i>Brillia</i>	L	111	4	Anders 2013	imm	N
	<i>B. flavifrons</i>	L	1	1	Enger 2001		
	<i>Comptosia</i>	L	1	1	Anders 2013		
	<i>Limnophyes</i>	L	11	2	"		
	<i>Parakiefferiella</i>	L	1	1	"		
	<i>Parametriocnemus</i>	L	1	1	"		
	<i>Chironominae</i> 08330000	L	111	3	Cranston 2013	imm	N
	<i>Pambolus</i> sp. A	L	111	3	Hils 1986		
	<i>P. longistylus</i>	L	1	1	Epi et al 2013		
	<i>Polypedilum</i> (Polypedilum) illinoense group	L	11	11	Bolton 2012		
	<i>P. (Polypedilum) aviceps</i>	L	1111	14	"		

3 taxa, TOTAL = 2.0

8 < (0.1 x 133)

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