

Instructions: Bold fields must be completed.

<b>Station Summary</b>		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

<b>Sample and Site Descriptors</b>	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 <sup>2</sup> ) 4.0	Number of Samples in Composite 0	Replicate No. _____ of _____
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Reason For Sampling

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

Water Temp. (C)	D.O. (mg/l)	D.O. (% sat.)	pH (su)	Conductivity (umhos/cm)	Transparency (cm)
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Water Color

Clear    
 Turbid    
 Stained

Estimated Stream Velocity (m/s)

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): 20  
 Sand: \_\_\_\_\_ Clay: \_\_\_\_\_ Silt/Muck: 10 Overhanging Vegetation: 20  
 Aquatic Macrophytes: \_\_\_\_\_ Leaf Snags: 10 Coarse Woody Debris: 60 Other ( \_\_\_\_\_ ): \_\_\_\_\_  
 Embeddedness of Substrate at Sample Site (%) 50 Canopy Cover at Sample Site (%) 80

**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
<b>Biological</b>				<b>Chemical</b>			
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:				<b>Sources of Stream Impacts</b>			
<b>Physical</b>				Bank Erosion		PH	PH
Bank Erosion		PH	PH	Point Source - Specify:			
Channelization: - Upstream				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			
Comments				Other - Specify:			

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter	Taxonomist	Estimated Percent of Sample Sorted
Kyle Wilcox	Dimick, Jeffrey	40%
Processed 7/27/18	Specimens Saved	
	Subsample archived in ABC Unit Nov 2021	

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