

Instructions: Bold fields must be completed.

Station Summary			
Waterbody Name THIEL CREEK		Waterbody ID Code 280100	Sample ID (YYYYMMDD-CY-FD) 20171011-69-04
Sampling Location			Database Key 149424598
SWIMS Station ID 10048062		SWIMS Station Name THIEL CREEK US NORTH RAIL RD	
Latitude 44.4612492	Longitude -88.9551289	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
Basin (WMU) WOLF RIVER		Watershed Name LOWER LITTLE WOLF RIVER	County WAUPACA

Sample and Site Descriptors	
Sample Collector (Last Name, First) DAVID A BOLHA, <del>JEREMY MASSARD</del>	Project Name BEAR LAKE TWA 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) 2	Estimated Area Sampled (m <sup>2</sup> ) 1.5	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: Targeted Watershed Assessment

Water Temp. (°F) 55.2	D.O. (mg/l) 2.4	D.O. (%sat.) 22.9	pH (su) 7.2	Conductivity (umhos/cm) 645.7	Transparency (cm) 120
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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 circle units m/s or f/s	Average Stream Depth of reach (m) 0.6	Average Stream Width of reach (m) 2.0
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Composition of Substrate Sampled (Percent):

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): 20 Rubble (tennisball to basketball): 30 Gravel (ladybug to tennisball): \_\_\_\_\_  
 Sand: \_\_\_\_\_ Clay: \_\_\_\_\_ Silt/Muck: 40 Overhanging Vegetation: 10  
 Aquatic Macrophytes: \_\_\_\_\_ Leaf Snags: \_\_\_\_\_ Coarse Woody Debris: \_\_\_\_\_ 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
<b>Biological</b>				<b>Chemical</b>			
Algae: - Diatoms / Periphyton		PL	PL	Chlorine		N	N
- Filamentous Algae		PL	PL	Dissolved Oxygen		PH	PH
- Planktonic Algae		N	N	Nutrients (P, N...)		PH	PH
Iron Bacteria		N	N	Toxics: - Inorganic (Metals)		N	N
Macrophytes		N	N	- Organic (PCBs, pesticides...)		N	N
Slimes		N	N	Other - Specify:			
Other - Specify:				<b>Sources of Stream Impacts</b>			
				Bank Erosion		PL	PL
				Point Source - Specify:		N	N
<b>Physical</b>				Pasturing of Livestock		PL	PL
Bank Erosion		PL	PL	Runoff: - Barnyard		PL	PL
Channelization: - Upstream		PH	PH	- Construction		N	N
- Downstream		PH	PH	- Cropland		PH	PH
Hydraulic Scour / Channel Incision		N	N	- Urban		N	N
Impoundment: - Upstream		N	N	Septic Systems		PL	PL
- Downstream		N	N	Tile Drainage - Organic Soils		PH	PH
Low Flow		PH	PH	- Mineral Soils		PH	PH
Sedimentation		PH	PH	Springs		N	N
Sludge		N	N	Tributary(s)		N	N
Thermal		<del>PH</del> PH	PH	Wetland		PL	PL
Turbidity		PL	PL	Other - Specify:			
Other - Specify:							

Comments

Special Instructions for Laboratory

**For Lab Use Only**

Sample Sorter <i>Justin Kowalski</i>	Taxonomist <i>Nimick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>20%</i>
Date P <i>3/13/18</i>	Specimens Saved <i>Subsample archived in ABC until Jun 2021</i>	

*D2 B3 E1 A3 B1 E3 D1 D3 E2*  
*24 112*

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Ceratopsycha glassonae	L	1	1	Schm., Hols. 1966		
Limnephilidae	L	1	1	Hilkenhoff 1995	imm	
Phycopidae	L	1	1	"	imm	
Dytiscidae	L	1	1	"		Y
Neoporus undulatus	A	1	1	Hilkenhoff 1995a		
Noterus immaculicollis	A	1	1	Hols., Berg. 1978		
Bezzia / Palpomyia	L	1	1	Hilkenhoff 1995		
Climaxia / Heteromyia	L	III	4	"		
Dolichopodidae	L	1	1	"		
Ephydriidae	P	-1	6	McCr., Webb 2008		
Orthocladiinae 0830001 <del>Orthocladiinae</del>	P	1	1	Ferr. et al 2008		N
Naididae	A	III	3	Ersev, Gustav 2002		
Tubificoid Naididae w/d hair chaetae	A	III	32	Ersev et al 2008		
Glossophoridae	A	1	1	Klemm 1985	dam	
Physa	A	-1	6	Rogers 2016		
Pisidium	A	III	22	Burch 1972		
<del>spittles Chironomidae</del>	L	N/D				
Procladius	L	1	1	Crain, Epler 2013	imm	
Orthocladiinae 0830000	L	1	1	Crain 2013	mt in det	N
Corynoneura	L	8-1	46	Anderson 2013		
Diptocladus	L	III	3	"		
Hydrobaenus	L	XIII	14	"		
Limnephyes	L	XI	11	"		
Chironomidae 0833000	L	1	1	Crain 2013	mt in det	N
Chironomus	L	8-11	52	Epler et al 2013		