

Instructions: Bold fields must be completed.

**Station Summary**

<b>Waterbody Name</b> UNT to Lk. Michigan #3		<b>Waterbody ID Code</b>	<b>Sample ID (YYYYMMDD-CY-FD)</b> 20190930-05-06
<b>Sampling Location</b> 30m US Crossing			<b>Database Key</b> 218829987
<b>SWIMS Station ID</b> 10053237		<b>SWIMS Station Name</b> UNT TO LAKE MICHIGAN 30M US NICOLET DR	
<b>Latitude</b> 44.5639615	<b>Longitude</b> -87.9033531	<b>Lat/Long Determination Method (circle)</b> SWIMS SWDV GPS	<b>Datum Used if using GPS</b> WGS84 or NAD83
<b>Basin (WMU)</b>		<b>Watershed Name</b>	<b>County</b> Brow

**Sample and Site Descriptors**

<b>Sample Collector (Last Name, First)</b> ANDREW HUDAK	<b>Project Name</b> FOX RIVER AOC- NON-WADEABLE MACROINVERTEBRATE
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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

<b>Total Sampling Time (min)</b> 3	<b>Estimated Area Sampled (m<sup>2</sup>)</b> 6	<b>Number of Samples in Composite</b> 1	<b>Replicate No.</b> 1 <b>of</b> 1
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**Reason For Sampling**

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

<b>Water Temp. (C)</b> 15.5	<b>D.O. (mg/l)</b> 9.2	<b>D.O. (% sat.)</b> 99.5	<b>pH (su)</b> 7.75	<b>Conductivity (umhos/cm)</b> .916	<b>Transparency (cm)</b>
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<b>Water Color</b> <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained	<b>Estimated Stream Velocity (m/s)</b> <input checked="" type="checkbox"/> Slow (< 0.15 m/s) <input type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input type="checkbox"/> Fast (> 0.5 m/s)
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<b>Measured Velocity</b> circle units m/s or f/s	<b>Average Stream Depth of reach (m)</b> 0.2	<b>Average Stream Width of reach (m)</b> 3
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**Composition of Substrate Sampled (Percent):**

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): \_\_\_\_\_ Rubble (tennisball to basketball): 20 Gravel (ladybug to tennisball): 50  
 Sand: 20 Clay: \_\_\_\_\_ Silt/Muck: \_\_\_\_\_ Overhanging Vegetation: \_\_\_\_\_  
 Aquatic Macrophytes: \_\_\_\_\_ Leaf Snags: 10 Coarse Woody Debris: \_\_\_\_\_ Other ( ): \_\_\_\_\_

**Embeddedness of Substrate at Sample Site (%)** 40     **Canopy Cover at Sample Site (%)** 30

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

Comments

Special Instructions for Laboratory

**For Lab Use Only**

Sample Sorter Eric Noas	Taxonomist Dimick, Jeffrey	Estimated Percent of Sample Sorted 70%
Date Processed 7/15/2020	Specimens Saved subsample archived in ABC until sept 2023	

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Wisconsin Department of Natural Resources  
 ABL SampleNum: 20190930-05-06  
 Taxonomist: Dimick, Jeffrey

Waterbody: Unnamed Tributary to Lake Michigan #3  
 SWIMS Database Key: 218829987

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Baetis flavistigma</i> species complex	L III		3	Kubo 2016		
<i>Cnemidocrypta</i>	L 0-III		28	Merrillumb 2019		
<i>Hydropsyche</i>	L I		1	Hills 1985	imm	N
<i>H. betteni</i>	L II		2	Schmidt 1986		
<i>Limnium vittatum</i> species complex <del>OB11P217</del>	L III		5	Gal et al 2004		
<i>Limonia</i>	L I		1	Merrillumb 2019		
<i>Odontomyia/Hedriodisus</i>	L I		1	"		
<i>Caecidotea intermedia</i>	A BB III		89	Will 1972		
<i>Dugesidae</i>	A I		1	Thompson 2016		
<del>Salid A3 Chironomidae</del>	L -TRSD					
<del>Salid A3 worm Tubificinae (without hairs)</del>	A I		1	Birnfeld 1991	imm	
<i>Eukretteriella claripennis</i> group	L I		1	And et al 2013		
<i>Microsectra</i>	L II		2	"		
<i>Phaenosectra flavipes</i>	L I		1	Bolton 2012		
<i>Polyedilum (Uresipedilum) flavum</i>	L III		3	"		

<3 taxa, TOTAL = 20