

Instructions: Bold fields must be completed.

**Station Summary**

<b>Waterbody Name</b> ONION RIVER		<b>Waterbody ID Code</b> 51200	<b>Sample ID (YYYYMMDD-CY-FD)</b> 20181009-60-02
<b>Sampling Location</b> R. Mill. e SOS			<b>Database Key</b> 168904983
<b>SWIMS Station ID</b> 603340	<b>SWIMS Station Name</b> ONION RIVER AT CTH E ORI		
<b>Latitude</b> 43.71025	<b>Longitude</b> -87.9917	<b>Lat/Long Determination Method (circle)</b> SWIMS SWDV <u>GPS</u>	<b>Datum Used if using GPS</b> <u>WGS84</u> or NAD83
<b>Basin (WMU)</b> SHEBOYGAN		<b>Watershed Name</b> ONION RIVER	<b>County</b> SHEBOYGAN

**Sample and Site Descriptors**

<b>Sample Collector (Last Name, First)</b> CRAIG HELKER	<b>Project Name</b> SER LONG-TERM TREND WADEABLE REFERENCE STREAM
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**Sampling Device**

D-Frame Kick Net   
  Surber Sampler   
  Eckman  
 Ponar   
  Artificial Substrate   
  Hess Sampler   
 Other: Long Term Trend

**Habitat Sampled**

Riffle   
  Run   
  Pool  
 Other   
  Shoreline Composite   
  Proportionally-Sampled Habitat  
 Littoral Zone   
  Profundal Zone   
  Wetland

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

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

<b>Water Temp. (C)</b> 14.91	<b>D.O. (mg/l)</b> 9.55	<b>D.O. (% sat.)</b> 96.3	<b>pH (su)</b> #	<b>Conductivity (umhos/cm)</b> 710.0	<b>Transparency (cm)</b> +120
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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 type="checkbox"/> Slow (< 0.15 m/s) <input type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input checked="" type="checkbox"/> Fast (> 0.5 m/s)
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<b>Measured Velocity</b> 2.3	circle units m/s or <u>f/s</u>	<b>Average Stream Depth of reach (m)</b> 4	<b>Average Stream Width of reach (m)</b> 6.5
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**Composition of Substrate Sampled (Percent):**

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): \_\_\_\_\_ Rubble (tennisball to basketball): 10 Gravel (ladybug to tennisball): 60  
 Sand: 30 Clay: \_\_\_\_\_ Silt/Muck: \_\_\_\_\_ Overhanging Vegetation: \_\_\_\_\_  
 Aquatic Macrophytes: \_\_\_\_\_ Leaf Snags: \_\_\_\_\_ Coarse Woody Debris: \_\_\_\_\_ Other (\_\_\_\_): \_\_\_\_\_

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