

Instructions: Bold fields must be completed.

|                                                                                                                                                                                                                                                                                                                                                                 |                         |                                                 |                                                                                                                                                                                           |                                         |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------------|
| <b>Station Summary</b>                                                                                                                                                                                                                                                                                                                                          |                         |                                                 |                                                                                                                                                                                           |                                         |                                              |
| Waterbody Name<br>WAUPACA RIVER                                                                                                                                                                                                                                                                                                                                 |                         |                                                 | Waterbody ID Code<br>257400                                                                                                                                                               |                                         | Sample ID (YYYYMMDD-CY-FD)<br>20161011-69-02 |
| Sampling Location<br>US Anderson Rd                                                                                                                                                                                                                                                                                                                             |                         |                                                 |                                                                                                                                                                                           | Database Key<br>133783578               |                                              |
| SWIMS Station ID<br>10021989                                                                                                                                                                                                                                                                                                                                    |                         | SWIMS Station Name<br>WAUPACA RIVER ANDERSON RD |                                                                                                                                                                                           |                                         |                                              |
| Latitude<br>44.365814                                                                                                                                                                                                                                                                                                                                           | Longitude<br>-89.123474 |                                                 | Lat/Long Determination Method (circle)<br>SWIMS    SWDV    GPS                                                                                                                            |                                         | Datum Used if using GPS<br>WGS84 or NAD83    |
| Basin (WMU)<br>WOLF RIVER                                                                                                                                                                                                                                                                                                                                       |                         | Watershed Name<br>WAUPACA RIVER                 |                                                                                                                                                                                           | County<br>WAUPACA                       |                                              |
| <b>Sample and Site Descriptors</b>                                                                                                                                                                                                                                                                                                                              |                         |                                                 |                                                                                                                                                                                           |                                         |                                              |
| Sample Collector (Last Name, First)<br>DAVID BOLHA                                                                                                                                                                                                                                                                                                              |                         |                                                 | Project Name<br>WAUPACA/TOMORROW TWA [SECTION 319] 2016                                                                                                                                   |                                         |                                              |
| <b>Sampling Device</b>                                                                                                                                                                                                                                                                                                                                          |                         |                                                 |                                                                                                                                                                                           |                                         |                                              |
| <input checked="" type="checkbox"/> Kick Net <input type="checkbox"/> Surber Sampler <input type="checkbox"/> Eckman<br><input type="checkbox"/> Ponar <input type="checkbox"/> Artificial Substrate <input type="checkbox"/> Hess Sampler <input type="checkbox"/> Other: _____                                                                                |                         |                                                 |                                                                                                                                                                                           |                                         |                                              |
| <b>Habitat Sampled</b>                                                                                                                                                                                                                                                                                                                                          |                         |                                                 |                                                                                                                                                                                           |                                         |                                              |
| <input checked="" type="checkbox"/> Riffle <input type="checkbox"/> Run <input type="checkbox"/> Pool<br><input type="checkbox"/> Other <input type="checkbox"/> Shoreline Composite <input type="checkbox"/> Proportionally-Sampled Habitat<br><input type="checkbox"/> Littoral Zone <input type="checkbox"/> Profundal Zone <input type="checkbox"/> Wetland |                         |                                                 |                                                                                                                                                                                           |                                         |                                              |
| Total Sampling Time (min)<br>4                                                                                                                                                                                                                                                                                                                                  |                         | Estimated Area Sampled (m <sup>2</sup> )<br>2   |                                                                                                                                                                                           | Number of Samples in Composite<br>1     |                                              |
|                                                                                                                                                                                                                                                                                                                                                                 |                         |                                                 |                                                                                                                                                                                           | Replicate No. 1 of 1                    |                                              |
| <b>Reason For Sampling</b>                                                                                                                                                                                                                                                                                                                                      |                         |                                                 |                                                                                                                                                                                           |                                         |                                              |
| <input type="checkbox"/> Least Impacted Reference <input checked="" type="checkbox"/> Baseline <input type="checkbox"/> Impact / Treatment Site<br><input type="checkbox"/> Control Site <input checked="" type="checkbox"/> Trend <input type="checkbox"/> Other: _____                                                                                        |                         |                                                 |                                                                                                                                                                                           |                                         |                                              |
| Water Temp. (°C)<br>13.3° 56.0 F                                                                                                                                                                                                                                                                                                                                | D.O. (mg/l)<br>12.22    | D.O. (%sat.)<br>116.7                           | pH (su)<br>8.15                                                                                                                                                                           | Conductivity (umhos/cm)<br>473.7        | Transparency (cm)<br>120                     |
| Water Color<br><input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained                                                                                                                                                                                                                                       |                         |                                                 | Estimated Stream Velocity (m/s)<br><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) |                                         |                                              |
| Measured Velocity<br>circle units<br>m/s or f/s                                                                                                                                                                                                                                                                                                                 |                         | Average Stream Depth of reach (m)<br>0.3        |                                                                                                                                                                                           | Average Stream Width of reach (m)<br>22 |                                              |
| <b>Composition of Substrate Sampled (Percent):</b>                                                                                                                                                                                                                                                                                                              |                         |                                                 |                                                                                                                                                                                           |                                         |                                              |
| Bedrock: _____                                                                                                                                                                                                                                                                                                                                                  |                         | Boulders (basketball or larger): _____          |                                                                                                                                                                                           | Rubble (tennisball to basketball): 30   |                                              |
| Sand: 10                                                                                                                                                                                                                                                                                                                                                        |                         | Clay: _____                                     |                                                                                                                                                                                           | Gravel (ladybug to tennisball): 60      |                                              |
| Silt/Muck: _____                                                                                                                                                                                                                                                                                                                                                |                         | Overhanging Vegetation: _____                   |                                                                                                                                                                                           |                                         |                                              |
| 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<br>Water Resource Integrity | Local | Water-<br>shed | Factors that may be influencing<br>Water Resource Integrity | Local | Water-<br>shed |
|-------------------------------------------------------------|-------|----------------|-------------------------------------------------------------|-------|----------------|
| Biological                                                  |       |                | Chemical                                                    |       |                |
| Algae: - Diatoms / Periphyton                               | N     | N              | Chlorine                                                    | N     | N              |
| - Filamentous Algae                                         | N     | N              | Dissolved Oxygen                                            | N     | N              |
| - Planktonic Algae                                          | N     | N              | Nutrients (P, N...)                                         | PL    | PL             |
| Iron Bacteria                                               | N     | N              | Toxics: - Inorganic (Metals)                                | N     | N              |
| Macrophytes                                                 | N     | N              | - Organic (PCBs, pesticides...)                             | N     | N              |
| Slimes                                                      | N     | N              | Other - Specify:                                            |       |                |
| Other - Specify:                                            |       |                | Sources of Stream Impacts                                   |       |                |
|                                                             |       |                | Bank Erosion                                                | PL    | PL             |
|                                                             |       |                | Point Source - Specify:                                     | N     | N              |
| Physical                                                    |       |                | Pasturing of Livestock                                      | N     | PL             |
| Bank Erosion                                                | PL    | PL             | Runoff: - Barnyard                                          | N     | PL             |
| Channelization: - Upstream                                  | N     | N              | - Construction                                              | N     | N              |
| - Downstream                                                | N     | N              | - Cropland                                                  | PL    | PL             |
| Hydraulic Scour / Channel Incision                          | N     | N              | - Urban                                                     | N     | N              |
| Impoundment: - Upstream                                     | PL    | PL             | Septic Systems                                              | N     | N              |
| - Downstream                                                | PL    | PL             | Tile Drainage - Organic Soils                               | N     | N              |
| Low Flow                                                    | N     | N              | - Mineral Soils                                             | N     | N              |
| Sedimentation                                               | PL    | PL             | Springs                                                     | N     | N              |
| Sludge                                                      | N     | N              | Tributary(s)                                                | N     | PL             |
| Thermal                                                     | PL    | PL             | Wetland                                                     | N     | N              |
| Turbidity                                                   | N     | N              | Other - Specify:                                            |       |                |
| Other - Specify:                                            |       |                |                                                             |       |                |

Comments

Special Instructions for Laboratory

| For Lab Use Only                 |                                                               |                                           |
|----------------------------------|---------------------------------------------------------------|-------------------------------------------|
| Sample Sorter<br>Andrew Kohlmann | Taxonomist<br>Derrick Jeffrey                                 | Estimated Percent of Sample Sorted<br>13% |
| Date Processed<br>2/20/17        | Specimens Saved<br>Subsample archived in ABL until 1 Jun 2020 |                                           |

D1-77

A2-140