

Instructions: Bold fields must be completed.

| Station Summary | | |
|--------------------------------------|------------------------------|--|
| Waterbody Name OTTER CREEK | Waterbody ID Code 2156800 | Sample ID (YYYYMMDD-CY-FD) 2017/03/09-02 |
| Sampling Location | | Database Key 150431330 |

| | | | |
|-------------------------------|---|--|---|
| SWIMS Station ID 10008713 | SWIMS Station Name OTTER CREEK - CTHS G AND S | | |
| Latitude | Longitude | Lat/Long Determination Method (circle) SWIMS SWDV GPS | Datum Used if using GPS WGS84 or NAD83 |
| Basin (WMU) LOWER CHIPPEWA | Watershed Name LOWER YELLOW (CHIPPEWA CO.) RIVER | | County CHIPPEWA |

| Sample and Site Descriptors | |
|--|---|
| Sample Collector (Last Name, First) MYCAL RALEIGH | Project Name WEST 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) 12 min (30 sec) | Estimated Area Sampled (m ²) 1 m² | Number of Samples in Composite 1 | Replicate No. 1 of 1 |
|---|--|--|------------------------------------|

Reason For Sampling

Least Impacted Reference
 Baseline
 Impact / Treatment Site
 Control Site
 Trend
 Other: **NCSR**

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

| | |
|---|---|
| Water Color <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained | Estimated Stream Velocity (m/s) <input type="checkbox"/> Slow (< 0.15 m/s) <input checked="" type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input type="checkbox"/> Fast (> 0.5 m/s) |
|---|---|

| | | |
|---|--|--|
| Measured Velocity circle units m/s or f/s | Average Stream Depth of reach (m) .2 | Average Stream Width of reach (m) 4.5m |
|---|--|--|

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): **95** Gravel (ladybug to tennisball): _____
 Sand: **5** Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (_____): _____

Embeddedness of Substrate at Sample Site (%) **0** 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 | | | Factors that may be influencing Water Resource Integrity | | |
|--|------------|---|--|------------|---|
| Local | Water-shed | | Local | Water-shed | |
| Biological | | | Chemical | | |
| Algae: - Diatoms / Periphyton | N | U | Chlorine | U | U |
| - Filamentous Algae | N | U | Dissolved Oxygen | U | U |
| - Planktonic Algae | N | U | Nutrients (P, N...) | U | U |
| Iron Bacteria | N | U | Toxics: - Inorganic (Metals) | U | U |
| Macrophytes | N | U | - Organic (PCBs, pesticides...) | U | U |
| Slimes | N | U | Other - Specify: | | |
| Other - Specify: | | | Sources of Stream Impacts | | |
| | | | Bank Erosion | U | U |
| | | | Point Source - Specify: | | |
| Physical | | | Pasturing of Livestock | PH | U |
| Bank Erosion | N | U | Runoff: - Barnyard | N | U |
| Channelization: - Upstream | N | U | - Construction | N | U |
| - Downstream | N | U | - Cropland | PL | U |
| Hydraulic Scour / Channel Incision | U | U | - Urban | N | U |
| Impoundment: - Upstream | U | U | Septic Systems | | |
| - Downstream | U | U | Tile Drainage - Organic Soils | U | U |
| Low Flow | N | U | - Mineral Soils | U | U |
| Sedimentation | N | U | Springs | U | U |
| Sludge | N | U | Tributary(s) | U | U |
| Thermal | U | U | Wetland | U | U |
| Turbidity | N | U | Other - Specify: | | |
| Other - Specify: | | | | | |

Comments: Flow out of Otter Lake. Heavy pasturing DS to US 950m. Cropland all around

Special Instructions for Laboratory

For Lab Use Only

| | | |
|--------------------------------------|--|---|
| Sample Sorter <i>Kayla Wilcox</i> | Taxonomist <i>Dimick LeMay</i> | Estimated Percent of Sample Sorted <i>79</i> |
| Date Processed <i>8/15/14</i> | Specimens Saved <i>Subsample archived in ABL until Dec 2020</i> | |

D2 = 179