

Instructions: Bold fields must be completed.

Station Summary

| | | |
|--|-------------------------------------|---|
| Waterbody Name UNNAMED | Waterbody ID Code 2146500 | Sample ID (YYYYMMDD-CY-FD) 20171031-10-01 |
| Sampling Location US culverts ~25m | | Database Key 153706362 |

| | |
|-------------------------------------|---|
| SWIMS Station ID 10020592 | SWIMS Station Name UNNAMED TRIBUTARY AT COPENHAVER RD |
|-------------------------------------|---|

| | | | |
|-----------------|------------------|---|--|
| Latitude | Longitude | Lat/Long Determination Method (circle) SWIMS SWDV GPS | Datum Used if using GPS WGS84 or NAD83 |
|-----------------|------------------|---|--|

| | | |
|--------------------------------------|--|------------------------|
| Basin (WMU) LOWER CHIPPEWA | Watershed Name NORTH FORK EAU CLAIRE RIVER | County CLARK |
|--------------------------------------|--|------------------------|

Sample and Site Descriptors

| | |
|---|--|
| Sample Collector (Last Name, First) MYCAL RALEIGH | Project Name WEST DISTRICT FOLLOW UP MONITORING FOR IMPAIREM |
|---|--|

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) 1 min | Estimated Area Sampled (m²) 2 m ² | 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: Follow Up

| | | | | | |
|------------------------|--------------------|----------------------|----------------|--------------------------------|--------------------------|
| 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 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) |
|--|--|

| | | |
|--|---|--|
| Measured Velocity circle units m/s or f/s | Average Stream Depth of reach (m) 0.2 | Average Stream Width of reach (m) 3m |
|--|---|--|

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 20 Gravel (ladybug to tennisball): 70
 Sand: 10 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (): _____

Embeddedness of Substrate at Sample Site (%) 5
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 |
|--|-------|------------|--|-------|------------|
| 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 | N | U |
| Physical | | | Point Source - Specify: | | |
| Bank Erosion | PL | U | Pasturing of Livestock | N | U |
| Channelization: - Upstream | N | U | Runoff: - Barnyard | N | U |
| - Downstream | N | U | - Construction | N | U |
| Hydraulic Scour / Channel Incision | N | U | - Cropland | PL | U |
| Impoundment: - Upstream | N | U | - Urban | N | U |
| - Downstream | N | U | Septic Systems | U | U |
| Low Flow | N | U | Tile Drainage - Organic Soils | U | U |
| Sedimentation | N | U | - Mineral Soils | U | U |
| Sludge | N | U | Springs | U | U |
| Thermal | U | U | Tributary(s) | U | U |
| Turbidity | N | U | Wetland | U | U |
| Other - Specify: | | | Other - Specify: | | |

Comments Follow up site. Crop fields nearby, but not close to stream (w 100m away)

Special Instructions for Laboratory

For Lab Use Only

| | | |
|------------------------------|--|---|
| Sample Sorter Taylor Hazz | Taxonomist Amick, Jeffrey | Estimated Percent of Sample Sorted 13% |
| Date Processed 1-31-18 | Specimens Saved Subsample archived in ABLE until Apr 2021 | |

02:79
 01:79
 158

| Taxa | Life Stage | Benthic Tally | Count | Taxonomic Reference | Condition | Unique Taxon |
|---|------------|---------------|-------|---------------------|--------------|--------------|
| <i>Alibonania</i> | L | / | 5 | Hilsenhoff 1995 | | |
| <i>Baetis flavistriga</i> species complex | L | III | 3 | Klueberhanz 2016 | | |
| <i>Acerpenna meridiana</i> | L | I | 1 | " | | |
| <i>Stenocranus interperatatum</i> | L | IIII | 4 | " | | |
| <i>Maccaffertium meridiana</i> | L | I | 1 | " | | |
| <i>M. vicarium</i> | L | -III | 8 | " | | |
| <i>Leptophlebia cupida</i> | L | " | 2 | " | | |
| <i>Cheumatopsyche</i> | L | III | 3 | Hilsenhoff 1995 | | |
| <i>Dolioselmis</i> | L | I | 1 | Hils., Schm. 1992 | imm | N |
| <i>O. fastiditibus</i> | L | - | 5 | " | | |
| <i>Nemerochroma</i> | L | III | 3 | Court., Merr. 2008 | | |
| <i>Chryseis</i> | L | I | 1 | Hilsenhoff 1995 | | |
| <i>Dicranota</i> | L | " | 2 | " | | |
| <i>Caeidotea intermedia</i> | A | III | 4 | Williams 1972 | | |
| <i>Naidinae</i> | A | 0-III | 28 | Brin, Geld. 1991 | | |
| Split A3 Chironomidae | L | IIII-III | | | | |
| <i>Chironomidae</i> 08250000 | L | I | 1 | Court., Merr. 2008 | mt indet | N |
| <i>Conchapelopia</i> | L | III | 4 | Cran., Epler 2013 | | |
| <i>Meropelopia</i> | L | I | 1 | " | | |
| <i>Nilotanyptus</i> | L | II | 2 | " | | |
| <i>Orthocladiinae</i> 08300000 | L | III | 3 | Cranston 2013 | mt indet/imm | N |
| <i>Chaetocladius</i> | L | I | 1 | Anderf 3 2013 | | |
| <i>Corynoneura</i> | L | IIII | 4 | " | | |
| <i>Diplocladius</i> | L | III | 4 | " | | |
| <i>Parametacnemeus</i> | L | X | 15 | " | | |
| <i>Thienemannella</i> | L | I | 1 | " | imm | |
| <i>Tsetonia bavaria</i> group | L | -III | 9 | Isode 1983 | | |
| <i>Nanocladius</i> | L | I | 1 | Anderf 3 2013 | imm | |
| <i>Chironominae</i> 08330000 | L | I | 1 | Cranston 2013 | mt indet | N |
| <i>Cladotanytarsus</i> | L | 0IIII | 24 | Epler et al 2013 | | |
| <i>Microsectra</i> | L | I | 1 | " | | |
| <i>Microtendipes pedellus</i> group | L | III | 3 | " | | |
| <i>Paratanytarsus</i> sp. B | L | II | 2 | Hilsenhoff unpub | | |
| <i>Paratendipes</i> | L | I | 1 | Epler et al 2013 | | |
| <i>Polypedilum (Polypedilum) illinoense</i> group | L | I | 1 | Bolton 2012 | | |
| <i>P. (Tripodina) scalaeum</i> group | L | I | 1 | " | | |

