

Instructions: Bold fields must be completed.

Station Summary

| | | | |
|--|--|--|---|
| Waterbody Name NORTH FORK CLAM RIVER | | Waterbody ID Code 2656600 | Sample ID (YYYYMMDD-CY-FD) 20170919-07-02 |
| Sampling Location 50 m US SAND RD | | | Database Key 149840893 |
| SWIMS Station ID 10031948 | SWIMS Station Name NORTH FORK CLAM RIVER AT UPPER SAND RD CROSSING | | |
| Latitude 45.73982 | Longitude -92.12633 | Lat/Long Determination Method (circle) SWIMS <u>SWDV</u> GPS | Datum Used if using GPS <u>WGS84</u> or NAD83 |
| Basin (WMU) ST. CROIX | | Watershed Name NORTH FORK CLAM RIVER | County BURNETT |

Sample and Site Descriptors

| | |
|---|---|
| Sample Collector (Last Name, First) CRAIG P ROESLER, CHANG VANG | Project Name NOR LONG-TERM TREND WADEABLE REFERENCE STREAMS |
|---|---|

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 | Estimated Area Sampled (m²) 1 | Number of Samples in Composite 2 | Replicate No. 1 of 1 |
|---------------------------------------|--|--|------------------------------------|

Reason For Sampling

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

| | | | | | |
|--------------------------------|----------------------------|----------------------------|-----------------------|---------------------------------------|-----------------------------------|
| Water Temp. (C) 14.0 | D.O. (mg/l) 10.3 | D.O. (%sat.) 104 | pH (su) 8.3 | Conductivity (umhos/cm) 248 | Transparency (cm) > 120 |
|--------------------------------|----------------------------|----------------------------|-----------------------|---------------------------------------|-----------------------------------|

| | |
|--|--|
| 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 type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input checked="" 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) 8 |
|--|---|---|

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 60 Gravel (ladybug to tennisball): 30
 Sand: 10 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 (%) 80

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

Comments

Special Instructions for Laboratory

For Lab Use Only

| | | |
|--|--|--|
| Sample Sorter <i>Murphy Steinhilber</i> | Taxonomist <i>Dimick, Jeffrey</i> | Estimated Percent of Sample Sorted <i>13%</i> |
| Date Processed <i>9/27/18</i> | Specimens Saved <i>Subsample archived in ABC until Jan 2022</i> | |

C1 95
B1 65
DA

Total 160
SL₃

| Taxa | Life Stage | Bench Tally | Count | Taxonomic Reference | Condition | Unique Taxon |
|---|------------|-------------|-------|---------------------|-----------|--------------|
| <i>Allocaecia</i> | L | I | 1 | Hils 1995 | | |
| <i>Panacania angulata</i> | L | -III | 8 | Hutch 1974 | | |
| <i>Isaneria signata</i> | L | - | 5 | Hils 1992 | | |
| <i>Taeniocera</i> | L | III | 3 | Hils 1995 | imm | |
| <i>Baetis flavistriga</i> species complex | L | -I | 6 | Kub 2016 | | |
| <i>Ephemera</i> | L | -III | 10 | " | imm | Y |
| <i>E. subvaria</i> | L | I | 1 | " | | |
| <i>Leucocuta</i> | L | III | 3 | " | | |
| <i>Macaferretium</i> | L | I | 1 | " | imm | |
| <i>Paraleptophlebia</i> | L | -I | 6 | " | com/imm | |
| <i>Glossosoma</i> | L | -I | 6 | Hils 1995 | imm | |
| <i>Procladius</i> | L | III | 17 | " | | |
| <i>Ceratopsyche</i> | L | I | 1 | " | imm | Y |
| <i>C. sparna</i> | L | III | 4 | Schim Hils 1986 | | |
| <i>Leuctrotrichia pictipes</i> | L | I | 1 | Hils 1995 | | |
| <i>Lepidostoma</i> | L | III | 18 | " | | |
| <i>Oligoneurus</i> | L | -II | 7 | Hils Schim 1992 | imm | N |
| <i>O. fuscicornis</i> | L | I | 1 | " | | |
| <i>O. trivittatus</i> | L | -III | 8 | " | | |
| <i>Atherix variegata</i> | L | III | 4 | Hils 1995 | | |
| <i>Nemerodromia</i> | L | I | 1 | Court Meir 2008 | | |
| <i>Antocha</i> | L | III | 3 | Hils 1995 | | |
| <i>Diamesa</i> | P | I | 1 | Ferrel 2008 | | |
| <i>Eukiefferiella</i> | P | I | 1 | " | | |
| <i>Parametreteneurus</i> | P | I | 1 | " | | |
| <i>Ferrissia</i> | A | II | 2 | Thorp 2003 2014 | | |
| <i>Pisidium</i> | A | II | 2 | Burch 1972 | | |
| <i>Diamesa</i> | L | I | 1 | Southwood 2013 | | |
| <i>Pogonina</i> | L | I | 1 | " | | |
| <i>Eukiefferiella</i> | L | I | 1 | Andr+3 2013 | not index | N |
| <i>Rhyacocampa</i> | L | I | 1 | " | | |
| <i>Thienemannella xera</i> | L | I | 1 | Bolton 2012 | | |
| <i>Tvetenia bavaria</i> group | L | I | 1 | Bode 1983 | | |
| <i>Chironomus</i> sp330000 | L | I | 1 | Ernstson 2013 | imm | N |
| <i>Microtendipes rydalsensis</i> group | L | I | 1 | Epl et al 2013 | | |
| <i>NeostemPELLINA reissi</i> | L | X-II | 17 | " | | |

