

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name NORTH FORK CLAM RIVER		Waterbody ID Code 2656600	Sample ID (YYYYMMDD-CY-FD) 20161013-07-04
Sampling Location 75m US of Sand Rd.		Database Key 134667355	
SWIMS Station ID 10031948		SWIMS Station Name NORTH FORK CLAM RIVER AT UPPER SAND RD CROSSING	
Latitude 45.73951	Longitude -92.12569	Lat/Long Determination Method (circle) SWIMS SWDV <u>GPS</u>	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 ROESLER	Project Name NOR LONG-TERM TREND WADEABLE REFERENCE STREAMS
---	---

Sampling Device

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) 15	Estimated Area Sampled (m²) 15	Number of Samples in Composite 3	Replicate No. <u>1</u> of <u>1</u>
--	---	--	--

Reason For Sampling

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

Water Temp. (C) 8.6	D.O. (mg/l) 11.4	D.O. (%sat.)	pH (su) 8.2	Conductivity (umhos/cm) 239	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 checked="" type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input type="checkbox"/> Fast (> 0.5 m/s)
--	--

Measured Velocity 1.3	circle units m/s or <u>f/s</u>	Average Stream Depth of reach (m) 0.3	Average Stream Width of reach (m) 9
---------------------------------	-----------------------------------	---	---

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 60 Gravel (ladybug to tennisball): 40
 Sand: _____ Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (____): _____

Embeddedness of Substrate at Sample Site (%) 10 **Canopy Cover at Sample Site (%)** 15

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	Watershed	Factors that may be influencing Water Resource Integrity		Local	Watershed
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:			
Physical				Pasturing of Livestock			
Bank Erosion				Runoff: - Barnyard			
Channelization: - Upstream				- Construction			
- Downstream				- Cropland			
Hydraulic Scour / Channel Incision				- Urban			
Impoundment: - Upstream				Septic Systems			
- Downstream				Tile Drainage - Organic Soils			
Low Flow				- Mineral Soils			
Sedimentation				Springs			
Sludge				Tributary(s)			
Thermal				Wetland			
Turbidity				Other - Specify:			
Other - Specify:							

Comments

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter <i>Alison Kuhne</i>	Taxonomist <i>Dimick Jeffrey</i>	Estimated Percent of Sample Sorted <i>71</i>
Date Processed <i>11-30-16</i>	Specimens Saved <i>Subsample archived in ABC until Nov 2020</i>	

B3 → 260

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Allocapnia</i>	L	I	1	Hilsenhoff 1995		
<i>Paracapnia angulata</i>	L	-IIII	4	Hilsenhoff 1974		
<i>Acroneurva</i>	L	III	3	Hilsenhoff 1995		
<i>Paragnetina medra</i>	L	II	2	"		
Periodidae	L	I	1	"	dam	N
<i>Isoneria</i>	L	I	1	"	imm	N
<i>I. signata</i>	L	XIIII	14	Hilsenhoff 1982		
<i>Taeniopteryx</i>	L	-	5	Hilsenhoff 1995	imm	
<i>Baetis tricaudatus</i>	L	III	3	Klukertanz 2016		
<i>Acentrella turbida</i>	L	II	2	"		
<i>Acerpenna</i>	L	I	1	"	dam	
<i>Ephemera</i>	L	8x1	81	"	imm	N
<i>E. invaria</i>	L	x-	15	"		
<i>E. subvaria</i>	L	IIII	4	"		
<i>Teloganopsis deficiens</i>	L	-II	7	"		
<i>Leucrocota</i>	L	-II	7	"		
<i>Maccaffertium</i>	L	I	1	"	imm	N
<i>M. modestum</i>	L	-I	6	"		
<i>M. vicarium</i>	L	IIII	4	"		
<i>Paraleptophlebia</i>	L	XIIII	14	"	dam/imm	N
<i>P. mollis</i>	L	X	10	"		
<i>Cordulegaster</i>	L	I	1	Need. et al 2000	imm	
<i>Brachycentrus occidentalis</i>	L	I	1	Hilsenhoff 1985		
<i>Micrasema rusticum</i>	L	I	1	"		
Protophila	L	I	1	Hilsenhoff 1995		
<i>Ceratopsyche sparna</i>	L	XIIII	13	Schm., Hils. 1986		
<i>C. walkeri</i>	L	I	1	"		
<i>Lepidostoma</i>	L	B-III	49	Hilsenhoff 1995		
<i>Neophylax</i>	L	I	1	"	imm	
<i>Optioservus</i>	L	-III	8	Hils., Schm. 1992	imm	N
<i>O. fastiditus</i>	L	-	5	"		
<i>O. frivittatus</i>	L	II	2	"		
<i>Atherix variegata</i>	L	XIIII	14	Hilsenhoff 1995		
<i>Simulium tuberosum</i> species group	L	I	1	Acker et al 2004		
<i>S. jenningsi</i> species group	L	I	1	"		
<i>Antocha</i>	L	I	1	Hilsenhoff 1995		
<i>Dicranota</i>	L	I	1	"		

