

Instructions: Bold fields must be completed.

Station Summary					
<b>Waterbody Name</b> NF Trade River @ STH 87 US		<b>Waterbody ID Code</b> 2637400		<b>Sample ID (YYYYMMDD-CY-FD)</b> 20200929-07-02	
<b>Sampling Location</b> Upstream STH 87					
<b>SWIMS Station ID</b> 10054159		<b>SWIMS Station Name</b> NF Trade River at STH 87 US		<b>Database Key</b> 265721487	
<b>Latitude</b> 45.72110	<b>Longitude</b> -92.67966	<b>Lat/Long Determination method (circle)</b> SWIMS SWDV <b>GPS</b>		<b>Datum Used if using GPS</b> NAD 27 or NAD83	
<b>Basin (WMU)</b> St. Croix		<b>Watershed Name</b> Trade River		<b>County</b> Burnett	
Sample and Site Descriptors					
<b>Sample Collector (Last Name, First)</b> Cunningham, Joseph			<b>Project Name</b> TWA - Upper NF Trade River Watershed TWA 2020		
<b>Sampling Device</b>					
<input checked="" type="checkbox"/> Kick Net		<input type="checkbox"/> Surber Sampler		<input type="checkbox"/> Eckman	
<input type="checkbox"/> Ponar		<input type="checkbox"/> Artificial Substrate		<input type="checkbox"/> Hess Sampler <input type="checkbox"/> Other: _____	
<b>Habitat Sampled</b>					
<input type="checkbox"/> Riffle		<input checked="" type="checkbox"/> Run		<input type="checkbox"/> Pool	
<input type="checkbox"/> Other		<input type="checkbox"/> Shoreline Composite		<input type="checkbox"/> Proportionally-Sampled Habitat	
<input type="checkbox"/> Littoral Zone		<input type="checkbox"/> Profundal Zone		<input type="checkbox"/> Wetland	
<b>Total Sampling Time (min)</b> 1 min	<b>Estimated Area Sampled (m<sup>2</sup>)</b> 1 m <sup>2</sup>	<b>Number of Samples in Composite</b> 3-20 sec Kicks		<b>Replicate No.</b> 1 of 1	
<b>Reason for Sampling</b>					
<input type="checkbox"/> Least Impacted Reference		<input type="checkbox"/> Baseline		<input type="checkbox"/> Impact / Treatment Site	
<input type="checkbox"/> Control Site		<input type="checkbox"/> Trend		<input checked="" type="checkbox"/> Other: TWA Project	
<b>Water Temp. (C)</b> 11.6	<b>D.O. (mg/l)</b> 6.0	<b>D.O. (% sat.)</b> 55.3	<b>pH (su)</b> 6.9	<b>Conductivity (umhos/cm)</b> 536	<b>Transparency (cm)</b> >120
<b>Water Color</b> <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained			<b>Estimated Stream Velocity (m/s)</b> <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)		
<b>Measured Velocity</b> circle units mps or cfs		<b>Average Stream Depth of reach (m)</b> 0.4 m		<b>Average Stream Width of reach (m)</b> 2 m	
<b>Composition of Substrate Sampled (Percent):</b>					
Bedrock: _____		Boulders (basketball or larger): _____		Rubble (tennisball or basketball): _____	
Sand: 10		Clay: _____		Silt/Muck: 10	
Aquatic Macrophytes: 20		Leaf Snags: _____		Course Woody Debris: _____	
Other ( ): _____		Overhanging Vegetation: 20		Other ( ): _____	
<b>Embeddedness of Substrate at Sample Site (%)</b> 40 %			<b>Canopy Cover at Sample Site (%)</b> 0 %		

# Wadeable Macroinvertebrate Field Data Report

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

Comments

*Horse pasture*

Special Instructions for Laboratory

### For Lab Use Only

Sample Sorter <i>Raatz, Trevor</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>12.5%</i>
Date Processed <i>9/23/2021</i>	Specimens Saved <i>subsample archived in HBL until Oct 2024</i>	

A4Q3: 27  
D1Q2: 9: 36  
A4Q4: 30: 66  
D1Q1: 1: 67

A4Q1: 19: 86  
D1Q3+4: 8: 94  
A4Q2: 31: 125

125