

## Site Description

<b>Site Code</b>	NF02YN0048
<b>Name</b>	Valentine River
<b>Date Sampled</b>	September 12, 2023
<b>Ecoregion(s)</b>	Central Newfoundland Forest
<b>Stream Order</b>	3
<b>Basin</b>	Exploits River
<b>Sampled By</b>	NL
<b>Accessibility</b>	20m upstream from bridge. Accessible at real-time monitoring station.

## Reach Data

Reach Characteristics			
Riffle	Rapid	Straight Run	Pool
X	X		
Surrounding Vegetation (D=dominant)			
Ferns/Grasses	Shrubs	Deciduous Trees	Coniferous Trees
X	X (D)	X	X
<b>Canopy Coverage</b>		1-25 %	
<b>Macrophyte Coverage</b>		1-25 %	
<b>Periphyton Coverage</b>		0.5-1 mm thick	


## Channel Data

<b>Bankful Width</b>	19.9 m
<b>Wetted Width</b>	19.8 m
<b>Avg. Velocity</b>	0.91 m/s
<b>Max. Velocity</b>	1.17 m/s
<b>Avg. Channel Depth</b>	26.8 cm
<b>Max. Channel Depth</b>	44 cm
<b>Bankfull-Wetted Depth</b>	1 cm

## Water Chemistry

Parameter	Value	Units
pH	7.16	pH units
Specific Conductivity	24.9	µS/cm
Dissolved Oxygen	9.52	mg/L
Temperature	17.16	°C
Turbidity	0.02	NTU
Copper	0.23	µg/L
Iron	49.3	µg/L
Lead	0.01	µg/L
Zinc	0.2	µg/L
Chloride	2	mg/L
Phosphorous (Total)	0.002	mg/L
Nitrate	0.03	mg/L
Nickel	0.055	µg/L

## Substrate

<b>Dominant Substrate</b>	small cobble
<b>2nd Dominant Substrate</b>	cobble
<b>Surrounding Material</b>	gravel
<b>Embeddedness</b>	0
<b>Median Particle Size</b>	8.5
<b>Geometric Mean Particle Size</b>	7.7
<b>Photo of Substrate</b>	
<small>Substrate Size Class Categories: Organic cover; Sand/silt/clay (&lt; 0.1 cm); Coarse sand (0.1 - 0.2 cm); Gravel (0.2 - 1.6 cm); Small pebble (1.6 - 3.2 cm); Large pebble (3.2 - 6.4 cm); Small cobble (6.4 - 12.8 cm); Large cobble (12.8 - 25.6 cm); Boulder (&gt; 25.6 cm); Bedrock.</small>	