

Waterford River at Bay Bulls Road

NF02ZM0367

EASTERN



Site Description

Site Code	NF02ZM0367
Name	Waterford River
Date Sampled	Oct. 11, 2012
Ecoregion(s)	Maritime Barrens
Stream Order	3
Basin	Waterford River
Sampled By	NL
Accessibility	Sampled 15 m downstream of bridge at intersection of Bay Bulls Rd & Waterford Bridge Rd. in St. John's.

Reach Data

Reach Characteristics			
Riffle	Rapid	Straight Run	Pool
X			
Surrounding Vegetation (D=dominant)			
Ferns/Grasses	Shrubs	Deciduous Trees	Coniferous Trees
X (D)		X	X
Canopy Coverage		1-25 %	
Macrophyte Coverage		0 %	
Periphyton Coverage		5-20 mm thick	

Channel Data

Bankful Width	12.7 m
Wetted Width	5.4 m
Avg. Velocity	0.38 m/s
Max. Velocity	0.65 m/s
Avg. Channel Depth	38.5 cm
Max. Channel Depth	51.0 cm
Bankfull-Wetted Depth	170 cm
Slope	0.008 m/m

Water Chemistry

Parameter	Value	Units
pH	7.55	pH units
Conductivity	501	uS/cm
Dissolved Oxygen	11.88	mg/L
Temperature	12.13	°C
Turbidity	2.1	NTU
Copper	1.63	ug/L
Iron	0.22	mg/L
Lead	0.25	ug/L
Zinc	5.1	ug/L
Chloride	127.4	mg/L
Phosphorous (Total)	0.014	mg/L
Nitrate	0.77	mg/L
Nickel	0.92	ug/L

Substrate

Dominant Substrate	small cobble
2nd Dominant Substrate	large cobble
Surrounding Material	gravel
Embeddedness	1/4 embedded
Median Particle Size	12.0 cm
Geometric Mean Particle Size	12.6 cm
Photo of Substrate	N/A

Substrate Size Class Categories: Organic cover; Sand/silt/clay (< 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 (> 25.6 cm); Bedrock.