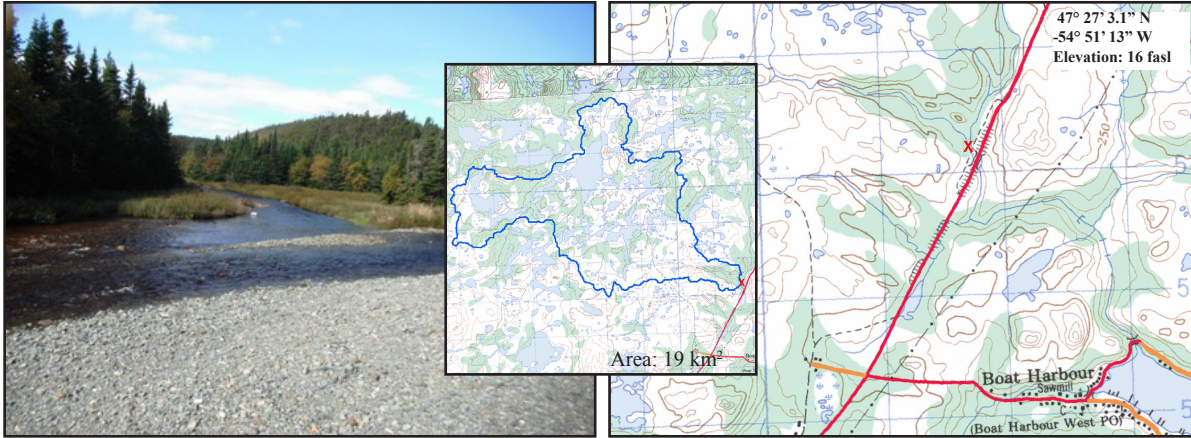


Rattle Brook at South Branch

NF02ZG0025

EASTERN



Site Description

Site Code	NF02ZG0025
Name	Rattle Brook
Date Sampled	Oct. 10, 2012
Ecoregion(s)	Maritime Barrens
Stream Order	4
Basin	Rattle Brook
Sampled By	NL
Accessibility	Sampled south branch of brook 15m u/s of bridge & WSC hut off Route 210

Reach Data

Reach Characteristics			
Riffle	Rapid	Straight Run	Pool
X		X	X
Surrounding Vegetation (D=dominant)			
Ferns/Grasses	Shrubs	Deciduous Trees	Coniferous Trees
X(D)	X	X	X
Canopy Coverage		0 %	
Macrophyte Coverage		1-25 %	
Periphyton Coverage		0.5-1 mm thick	


Channel Data

Bankful Width	17.7 m
Wetted Width	8.97 m
Avg. Velocity	0.35 m/s
Max. Velocity	0.57 m/s
Avg. Channel Depth	23.5 cm
Max. Channel Depth	32.0 cm
Bankfull-Wetted Depth	115 cm
Slope	0.011 m/m

Water Chemistry

Parameter	Value	Units
pH	7.07	pH units
Conductivity	24	uS/cm
Dissolved Oxygen	11.24	mg/L
Temperature	12.21	°C
Turbidity	0.3	NTU
Copper	0.28	ug/L
Iron	0.18	mg/L
Lead	0.10	ug/L
Zinc	0.50	ug/L
Chloride	4.41	mg/L
Phosphorous (Total)	0.004	mg/L
Nitrate	<0.02	mg/L
Nickel	0.68	ug/L

Substrate

Dominant Substrate	small cobble
2nd Dominant Substrate	large pebble
Surrounding Material	coarse sand
Embeddedness	1/4 embedded
Median Particle Size	7.75 cm
Geometric Mean Particle Size	7.30 cm
Photo of Substrate	
<small>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.</small>	