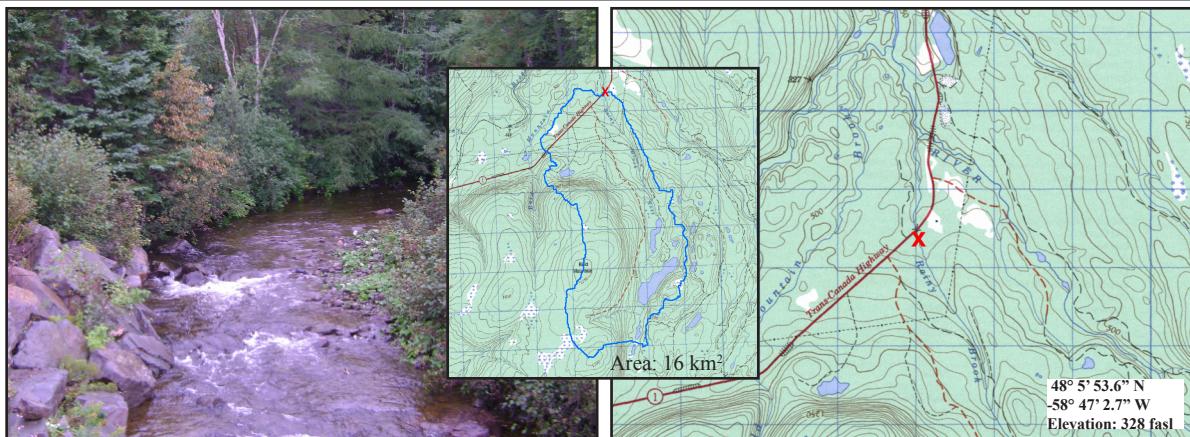


Rainy Brook East at TCH

NF02ZA0027

WESTERN



Site Description

Site Code	NF02ZA0027
Name	Rainy Brook East
Date Sampled	Sept. 20, 2010
Ecoregion(s)	Southwestern Newfoundland
Stream Order	2
Basin	Highlands River
Sampled By	NL/EC
Accessibility	Sampled 20 m upstream of bridge at TCH near campground.

Channel Data

Bankful Width	8.9 m
Wetted Width	7.6 m
Avg. Velocity	0.38 m/s
Max. Velocity	0.50 m/s
Avg. Channel Depth	26 cm
Max. Channel Depth	37 cm
Bankfull-Wetted Depth	45 cm
Slope	0.03 m/m

Substrate

Dominant Substrate	large pebble
2nd Dominant Substrate	large cobble
Surrounding Material	gravel
Embeddedness	3/4 embedded
Median Particle Size	5.0 cm
Geometric Mean Particle Size	5.2 cm
Photo of Substrate	

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.

Reach Data

Reach Characteristics			
Riffle	Rapid	Straight Run	Pool
X		X	
Surrounding Vegetation (D=dominant)			
Ferns/Grasses	Shrubs	Deciduous Trees	Coniferous Trees
X	X	X	X (D)
Canopy Coverage		26-50 %	
Macrophyte Coverage		1-25 %	
Periphyton Coverage		0.5-1 mm thick	

Water Chemistry

Parameter	Value	Units
pH	7.55	pH units
Conductivity	99.8	uS/cm
Dissolved Oxygen	13.26	mg/L
Temperature	13.26	°C
Turbidity	0.6	NTU
Copper	0.35	ug/L
Iron	0.03	mg/L
Lead	0.04	ug/L
Zinc	0.2	ug/L
Chloride	5.87	mg/L
Phosphorous (Total)	0.004	mg/L
Nitrate	0.08	mg/L
Nickel	0.42	ug/L