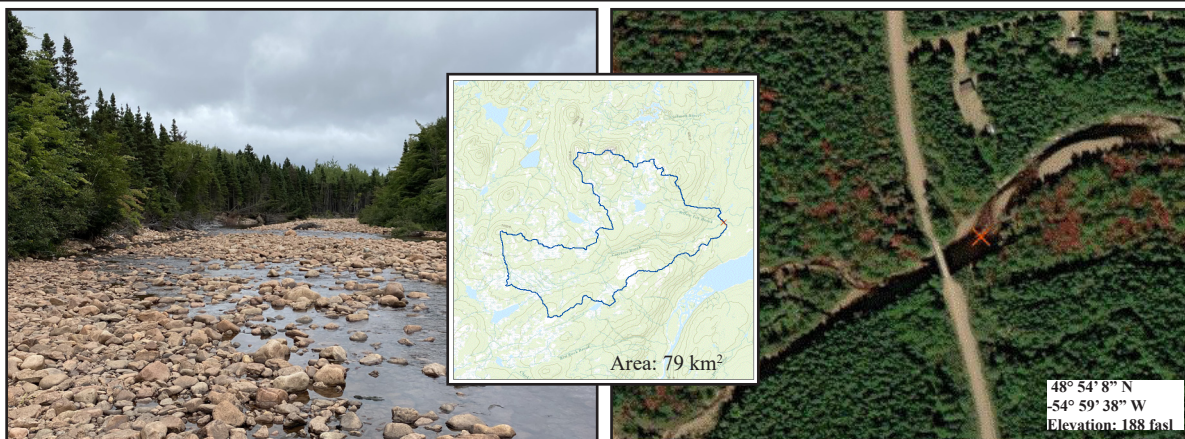


Careless Brook at Resource Road Steel Bridge

NF02YQ0072

CENTRAL




Site Description

Site Code	NF02YQ0072
Name	Careless Brook
Date Sampled	September 11, 2023
Ecoregion(s)	Central Newfoundland Forest
Stream Order	4
Basin	Gander River
Sampled By	NL
Accessibility	Accessed 14km south of TCH on road to Beaverbrook Mines. Sampled downstream of bridge crossing

Channel Data

Bankful Width	23.5 m
Wetted Width	18.36 m
Avg. Velocity	0.54 m/s
Max. Velocity	0.77 m/s
Avg. Channel Depth	15.46 cm
Max. Channel Depth	22.5 cm
Bankfull-Wetted Depth	30 cm
Slope	0.01 m/m

Substrate

Dominant Substrate	cobble
2nd Dominant Substrate	small cobble
Surrounding Material	coarse sand
Embeddedness	0
Median Particle Size	9 cm
Geometric Mean Particle Size	8.8 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>	

Reach Data

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

Water Chemistry

Parameter	Value	Units
pH	6.63	pH units
Conductivity	25.1	uS/cm
Dissolved Oxygen	9.44	mg/L
Temperature	16.512	°C
Turbidity	0.3	NTU
Copper	0.08	µg/L
Iron	333	µg/L
Lead	0.07	µg/L
Zinc	0.42	µg/L
Chloride	2.3	mg/L
Phosphorous (Total)	0.002	mg/L
Nitrate	0.03	mg/L
Nickel	0.053	µg/L

Careless Brook at Resource Road Steel Bridge

NF02YQ0072

CENTRAL




Site Description

Site Code	NF02YQ0072
Name	Careless Brook
Date Sampled	September 20, 2022
Ecoregion(s)	Central Newfoundland
Stream Order	4
Basin	Gander River
Sampled By	NL
Accessibility	Accessed 14km south of TCH on road to Beaverbrook Mines. Sampled downstream of bridge crossing

Channel Data

Bankful Width	24 m
Wetted Width	19 m
Avg. Velocity	0.42 m/s
Max. Velocity	0.96 m/s
Avg. Channel Depth	15.3 cm
Max. Channel Depth	29.0 cm
Bankfull-Wetted Depth	100 cm
Slope	0.01 m/m

Substrate

Dominant Substrate	small cobble
2nd Dominant Substrate	large cobble
Surrounding Material	coarse sand
Embeddedness	1/4 embedded
Median Particle Size	11 cm
Geometric Mean Particle Size	10.5 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>	

Reach Data

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

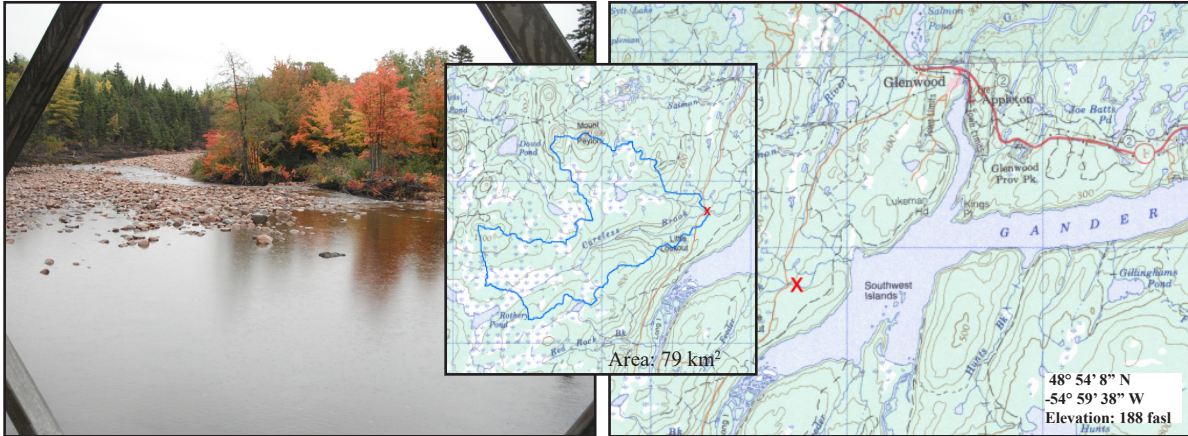
Water Chemistry

Parameter	Value	Units
pH	6.20	pH units
Conductivity	18.5	uS/cm
Dissolved Oxygen	10.21	mg/L
Temperature	12.25	°C
Turbidity	0.3	NTU
Copper	0.07	µg/L
Iron	314	µg/L
Lead	0.06	µg/L
Zinc	0.36	µg/L
Chloride	3	mg/L
Phosphorous (Total)	0.002	mg/L
Nitrate	0.03	mg/L
Nickel	0.033	µg/L

Careless Cove Brook at Resource Road Steel Bridge

NF02YQ0072

CENTRAL



Site Description

Site Code	NF02YQ0072
Name	Careless Cove Brook
Date Sampled	Sept. 25, 2019
Ecoregion(s)	Central Newfoundland
Stream Order	4
Basin	Gander River
Sampled By	NL
Accessibility	Accessed 14km south of TCH on road to Beaverbrook Mines. Sampled downstream of bridge crossing.

Reach Data

Reach Characteristics			
Riffle	Rapid	Straight Run	Pool
X	X	X	X
Surrounding Vegetation (D=dominant)			
Ferns/Grasses	Shrubs	Deciduous Trees	Coniferous Trees
X	X (D)	X	X
Canopy Coverage		1-25 %	
Macrophyte Coverage		0 %	
Periphyton Coverage		0.5-1.0 mm thick	


Channel Data

Bankful Width	38 m
Wetted Width	28 m
Avg. Velocity	0.3 m/s
Max. Velocity	0.4 m/s
Avg. Channel Depth	13 cm
Max. Channel Depth	26 cm
Bankfull-Wetted Depth	112 cm
Slope	0.02 m/m

Water Chemistry

Parameter	Value	Units
pH	7.20	pH units
Conductivity	27.8	uS/cm
Dissolved Oxygen	10.84	mg/L
Temperature	10.17	°C
Turbidity	0.2	NTU
Copper	0.07	ug/L
Iron	0.0708	mg/L
Lead	0.02	ug/L
Zinc	0.18	ug/L
Chloride	2.5	mg/L
Phosphorous (Total)	0.002	mg/L
Nitrate	0.05	mg/L
Nickel	0.027	ug/L

Substrate

Dominant Substrate	large cobble
2nd Dominant Substrate	small cobble
Surrounding Material	gravel
Embeddedness	1/4 embedded
Median Particle Size	11 cm
Geometric Mean Particle Size	10.5 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>	

Careless Cove Brook at Resource Road Steel Bridge

NF02YQ0072

CENTRAL




Site Description

Site Code	NF02YQ0072
Name	Careless Cove Brook
Date Sampled	Sept. 24, 2018
Ecoregion(s)	Central Newfoundland
Stream Order	4
Basin	Gander River
Sampled By	NL
Accessibility	Accessed 14km south of TCH on road to Beaverbrook Mines. Sampled downstream of bridge crossing

Channel Data

Bankful Width	30.9 m
Wetted Width	28.5 m
Avg. Velocity	0.37 m/s
Max. Velocity	0.73 m/s
Avg. Channel Depth	12 cm
Max. Channel Depth	25 cm
Bankfull-Wetted Depth	130 cm
Slope	0.017 m/m

Substrate

Dominant Substrate	small cobble
2nd Dominant Substrate	large cobble
Surrounding Material	gravel
Embeddedness	unembedded
Median Particle Size	7 cm
Geometric Mean Particle Size	7.3 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>	

Reach Data

Reach Characteristics			
Riffle	Rapid	Straight Run	Pool
X		X	X
Surrounding Vegetation (D=dominant)			
Ferns/Grasses	Shrubs	Deciduous Trees	Coniferous Trees
X	X (D)	X	X
Canopy Coverage		1-25 %	
Macrophyte Coverage		0 %	
Periphyton Coverage		0.5-1.0 mm thick	

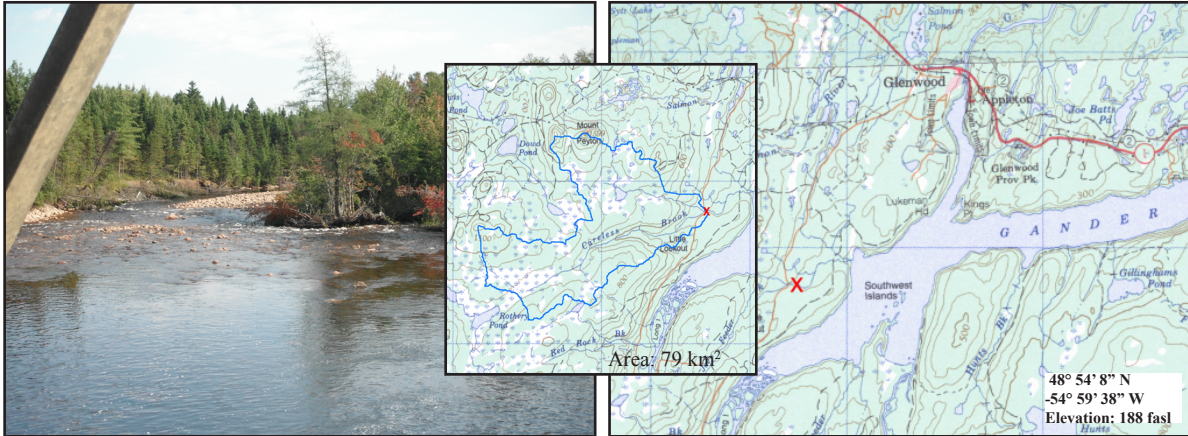
Water Chemistry

Parameter	Value	Units
pH	6.93	pH units
Conductivity	23.6	uS/cm
Dissolved Oxygen	10.43	mg/L
Temperature	10.46	°C
Turbidity	0.3	NTU
Copper	<0.1	ug/L
Iron	0.206	mg/L
Lead	0.05	ug/L
Zinc	0.3	ug/L
Chloride	2.7	mg/L
Phosphorous (Total)	0.002	mg/L
Nitrate	0.02	mg/L
Nickel	<0.05	ug/L

Careless Cove Brook at Resource Road Steel Bridge

NF02YQ0072

CENTRAL



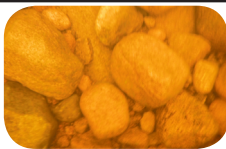
Site Description

Site Code	NF02YQ0072
Name	Careless Cove Brook
Date Sampled	Sept. 14, 2017
Ecoregion(s)	Central Newfoundland
Stream Order	4
Basin	Gander River
Sampled By	NL
Accessibility	Accessed 14km south of TCH on road to Beaverbrook Mines. Sampled downstream of bridge crossing

Channel Data

Bankful Width	32.1 m
Wetted Width	29.6 m
Avg. Velocity	0.52 m/s
Max. Velocity	0.72 m/s
Avg. Channel Depth	36 cm
Max. Channel Depth	62 cm
Bankfull-Wetted Depth	25 cm
Slope	0.013 m/m

Substrate

Dominant Substrate	large cobble
2nd Dominant Substrate	small cobble
Surrounding Material	gravel
Embeddedness	1/4 embedded
Median Particle Size	12 cm
Geometric Mean Particle Size	10.7 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	X	X
Surrounding Vegetation (D=dominant)			
Ferns/Grasses	Shrubs	Deciduous Trees	Coniferous Trees
X	X (D)	X	X
Canopy Coverage		1-25 %	
Macrophyte Coverage		1-25 %	
Periphyton Coverage		0.5-1.0 mm thick	

Water Chemistry

Parameter	Value	Units
pH	6.40	pH units
Conductivity	18.6	uS/cm
Dissolved Oxygen	9.98	mg/L
Temperature	11.69	°C
Turbidity	0.9	NTU
Copper	<0.1	ug/L
Iron	0.509	mg/L
Lead	0.11	ug/L
Zinc	0.7	ug/L
Chloride	2.2	mg/L
Phosphorous (Total)	0.005	mg/L
Nitrate	<0.02	mg/L
Nickel	<0.05	ug/L

Careless Cove Brook at Resource Road Steel Bridge

NF02YQ0072

CENTRAL



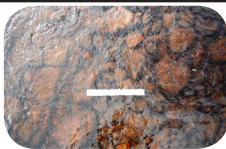
Site Description

Site Code	NF02YQ0072
Name	Careless Cove Brook
Date Sampled	Sept. 21, 2016
Ecoregion(s)	Central Newfoundland
Stream Order	4
Basin	Gander River
Sampled By	NL
Accessibility	Accessed 14km south of TCH on road to Beaverbrook Mines. Sampled downstream of bridge crossing

Channel Data

Bankful Width	28.5 m
Wetted Width	22.7 m
Avg. Velocity	0.43 m/s
Max. Velocity	0.96 m/s
Avg. Channel Depth	15 cm
Max. Channel Depth	29 cm
Bankfull-Wetted Depth	79 cm
Slope	0.017 m/m

Substrate

Dominant Substrate	large cobble
2nd Dominant Substrate	small cobble
Surrounding Material	coarse sand
Embeddedness	1/4 embedded
Median Particle Size	11.0 cm
Geometric Mean Particle Size	10.5 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	X	X
Surrounding Vegetation (D=dominant)			
Ferns/Grasses	Shrubs	Deciduous Trees	Coniferous Trees
X	X	X (D)	X
Canopy Coverage		1-25 %	
Macrophyte Coverage		0 %	
Periphyton Coverage		0.5-1.0 mm thick	

Water Chemistry

Parameter	Value	Units
pH	6.20	pH units
Conductivity	18.5	uS/cm
Dissolved Oxygen	10.21	mg/L
Temperature	12.25	°C
Turbidity	0.3	NTU
Copper	0.08	ug/L
Iron	0.39	mg/L
Lead	0.10	ug/L
Zinc	0.55	ug/L
Chloride	2.1	mg/L
Phosphorous (Total)	0.004	mg/L
Nitrate	<0.02	mg/L
Nickel	0.04	ug/L

Careless Cove Brook at Resource Road Steel Bridge

NF02YQ0072

CENTRAL




Site Description

Site Code	NF02YQ0072
Name	Careless Cove Brook
Date Sampled	Sept. 22, 2015
Ecoregion(s)	Central Newfoundland
Stream Order	4
Basin	Gander River
Sampled By	NL
Accessibility	Accessed 14km south of TCH on road to Beaverbrook Mines. Sampled downstream of bridge crossing

Channel Data

Bankful Width	29 m
Wetted Width	25 m
Avg. Velocity	0.43 m/s
Max. Velocity	1.01 m/s
Avg. Channel Depth	15 cm
Max. Channel Depth	37 cm
Bankfull-Wetted Depth	120 cm
Slope	0.02 m/m

Substrate

Dominant Substrate	large cobble
2nd Dominant Substrate	small cobble
Surrounding Material	coarse sand
Embeddedness	1/4 embedded
Median Particle Size	15.3 cm
Geometric Mean Particle Size	13.6 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	X
Surrounding Vegetation (D=dominant)			
Ferns/Grasses	Shrubs	Deciduous Trees	Coniferous Trees
X	X	X (D)	X
Canopy Coverage		1-25 %	
Macrophyte Coverage		0 %	
Periphyton Coverage		0.5-1.0 mm thick	

Water Chemistry

Parameter	Value	Units
pH	6.36	pH units
Conductivity	19.1	uS/cm
Dissolved Oxygen	9.71	mg/L
Temperature	16.2	°C
Turbidity	0.2	NTU
Copper	0.08	ug/L
Iron	0.326	mg/L
Lead	0.06	ug/L
Zinc	0.41	ug/L
Chloride	2.0	mg/L
Phosphorous (Total)	0.002	mg/L
Nitrate	0.02	mg/L
Nickel	0.03	ug/L

Careless Cove Brook at Resource Road Steel Bridge

NF02YQ0072

CENTRAL



Site Description

Site Code	NF02YQ0072
Name	Careless Cove Brook
Date Sampled	Sept. 29, 2014
Ecoregion(s)	Central Newfoundland
Stream Order	4
Basin	Gander River
Sampled By	NL
Accessibility	Accessed 14km south of TCH on road to Beaverbrook Mines. Sampled downstream of bridge crossing

Reach Data

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


Channel Data

Bankful Width	26.7 m
Wetted Width	24.1 m
Avg. Velocity	0.62 m/s
Max. Velocity	1.47 m/s
Avg. Channel Depth	12 cm
Max. Channel Depth	17 cm
Bankfull-Wetted Depth	80 cm
Slope	0.015 m/m

Water Chemistry

Parameter	Value	Units
pH	7.03	pH units
Conductivity	24.4	uS/cm
Dissolved Oxygen	10.88	mg/L
Temperature	11.08	°C
Turbidity	0.5	NTU
Copper	0.07	ug/L
Iron	0.38	mg/L
Lead	0.07	ug/L
Zinc	0.43	ug/L
Chloride	2.5	mg/L
Phosphorous (Total)	0.004	mg/L
Nitrate	0.02	mg/L
Nickel	<0.01	ug/L

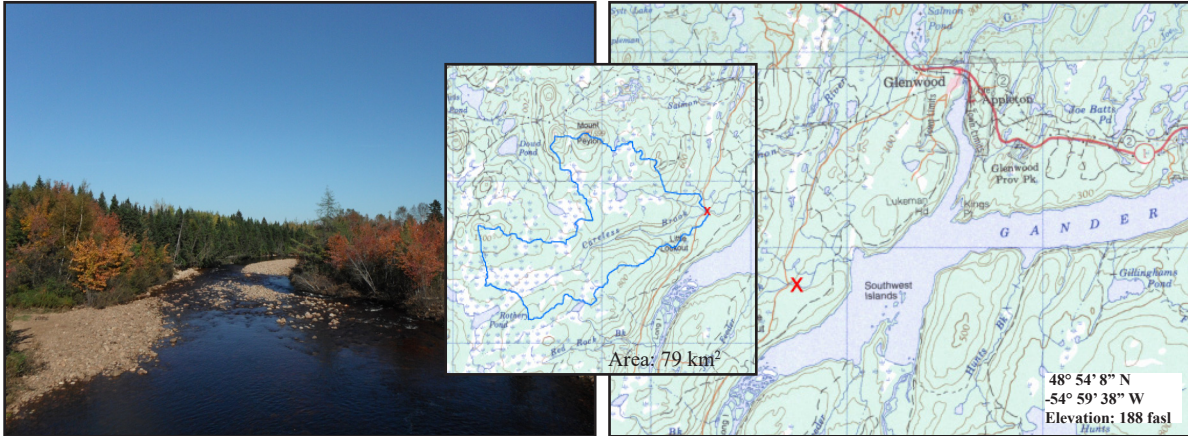
Substrate

Dominant Substrate	large cobble
2nd Dominant Substrate	small cobble
Surrounding Material	gravel
Embeddedness	unembedded
Median Particle Size	14 cm
Geometric Mean Particle Size	13.1 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>	

Careless Cove Brook at Resource Road Steel Bridge

NF02YQ0072

CENTRAL



Site Description

Site Code	NF02YQ0072
Name	Careless Cove Brook
Date Sampled	Sept. 30, 2013
Ecoregion(s)	Central Newfoundland
Stream Order	4
Basin	Gander River
Sampled By	NL
Accessibility	Accessed 14km south of TCH on road to Beaverbrook Mines. Sampled downstream of bridge crossing

Reach Data

Reach Characteristics			
Riffle	Rapid	Straight Run	Pool
X		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		<0.5 mm thick	


Channel Data

Bankful Width	26.5 m
Wetted Width	24.7 m
Avg. Velocity	0.45 m/s
Max. Velocity	0.84 m/s
Avg. Channel Depth	23.8 cm
Max. Channel Depth	42 cm
Bankfull-Wetted Depth	65 cm
Slope	0.009 m/m

Water Chemistry

Parameter	Value	Units
pH	6.00	pH units
Conductivity	16.4	uS/cm
Dissolved Oxygen	9.58	mg/L
Temperature	15.18	°C
Turbidity	0	NTU
Copper	0.12	ug/L
Iron	0.33	mg/L
Lead	0.06	ug/L
Zinc	1.23	ug/L
Chloride	1.82	mg/L
Phosphorous (Total)	0.005	mg/L
Nitrate	0.01	mg/L
Nickel	0.05	ug/L

Substrate

Dominant Substrate	small cobble
2nd Dominant Substrate	large cobble
Surrounding Material	gravel
Embeddedness	Unembedded
Median Particle Size	9 cm
Geometric Mean Particle Size	9 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>	

Careless Cove Brook

NF02YQ0072

CENTRAL



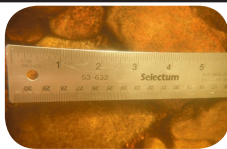
Site Description

Site Code	NF02YQ0072
Name	Careless Cove Brook
Date Sampled	Oct. 17, 2012
Ecoregion(s)	Central Newfoundland
Stream Order	4
Basin	Gander River
Sampled By	NL
Accessibility	Accessed 14km south of TCH on road to Beaverbrook Mines. Sampled downstream of bridge crossing

Channel Data

Bankful Width	32.7 m
Wetted Width	28.8 m
Avg. Velocity	0.56 m/s
Max. Velocity	0.75 m/s
Avg. Channel Depth	32 cm
Max. Channel Depth	48.5 cm
Bankfull-Wetted Depth	15 cm
Slope	0.013 m/m

Substrate

Dominant Substrate	small cobble
2nd Dominant Substrate	large pebble
Surrounding Material	gravel
Embeddedness	unembedded
Median Particle Size	10.0 cm
Geometric Mean Particle Size	9.8 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		X
Surrounding Vegetation (D=dominant)			
Ferns/Grasses	Shrubs	Deciduous Trees	Coniferous Trees
X	X (D)	X	X
Canopy Coverage		0 %	
Macrophyte Coverage		0 %	
Periphyton Coverage		0.5-1.0 mm thick	

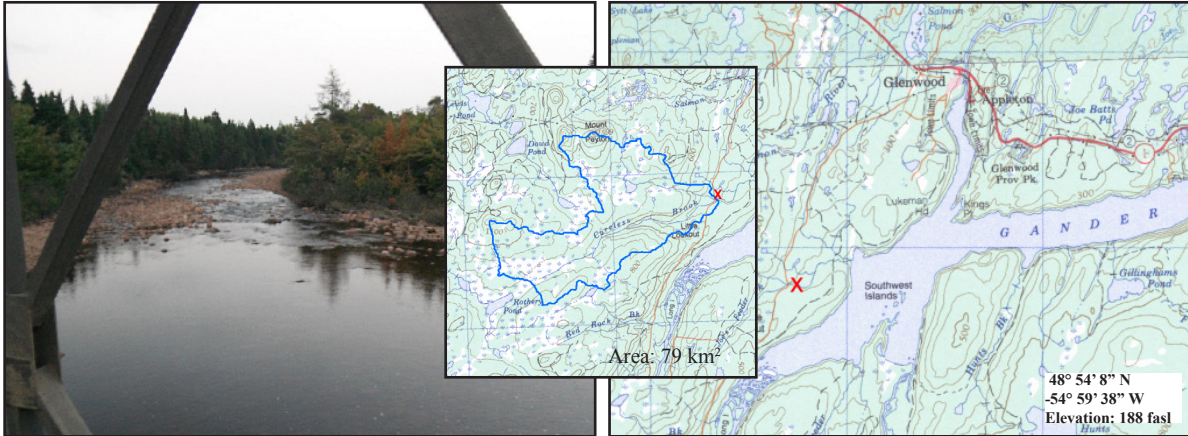
Water Chemistry

Parameter	Value	Units
pH	6.11	pH units
Conductivity	16.4	uS/cm
Dissolved Oxygen	10.52	mg/L
Temperature	11.48	°C
Turbidity	2.5	NTU
Copper	0.04	ug/L
Iron	0.60	mg/L
Lead	0.18	ug/L
Zinc	0.91	ug/L
Chloride	2.42	mg/L
Phosphorous (Total)	0.004	mg/L
Nitrate	<0.02	mg/L
Nickel	1.79	ug/L

Careless Cove Brook

NF02YQ0072

CENTRAL



Site Description

Site Code	NF02YQ0072
Name	Careless Cove Brook
Date Sampled	Sept. 14, 2011
Ecoregion(s)	Central Newfoundland
Stream Order	4
Basin	Gander River
Sampled By	NL
Accessibility	Accessed 14km south of TCH on road to Beaverbrook Mines. Sampled downstream of bridge crossing

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
Canopy Coverage		0 %	
Macrophyte Coverage		0 %	
Periphyton Coverage		0.5-1.0 mm thick	

Channel Data

Bankful Width	22.5 m
Wetted Width	16.8 m
Avg. Velocity	0.44 m/s
Max. Velocity	0.68 m/s
Avg. Channel Depth	16 cm
Max. Channel Depth	33 cm
Bankfull-Wetted Depth	126 cm
Slope	0.017 m/m

Water Chemistry

Parameter	Value	Units
pH	6.34	pH units
Conductivity	23.3	uS/cm
Dissolved Oxygen	9.07	mg/L
Temperature	17.45	°C
Turbidity	0	NTU
Copper	0.07	ug/L
Iron	0.62	mg/L
Lead	0.09	ug/L
Zinc	0.51	ug/L
Chloride	2.04	mg/L
Phosphorous (Total)	0.003	mg/L
Nitrate	<0.02	mg/L
Nickel	2.26	ug/L

Substrate

Dominant Substrate	small cobble
2nd Dominant Substrate	large pebble
Surrounding Material	gravel
Embeddedness	1/4 embedded
Median Particle Size	8.0 cm
Geometric Mean Particle Size	7.9 cm

Photo of Substrate

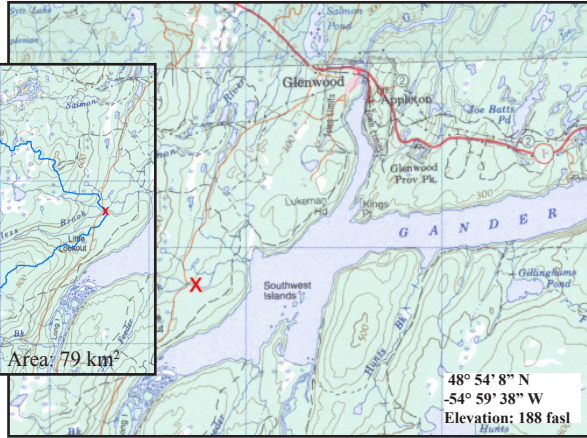


Substrate Size Class Categories: Organic cover; Sand/silt/clay (< 0.1 cm); Coarse sand (0.1 - 0.2 cm); Gravel (0.2 - 1.6 cm); Small pebble (1.6 - 3.2 cm); Large pebble (3.2 - 6.4 cm); Small cobble (6.4 - 12.8 cm); Large cobble (12.8 - 25.6 cm); Boulder (> 25.6 cm); Bedrock.

Careless Cove Brook at Resource Road Steel Bridge

NF02YQ0072

CENTRAL



Site Description

Site Code	NF02YQ0072
Name	Careless Cove Brook
Date Sampled	Sept. 15, 2010
Ecoregion(s)	Central Newfoundland
Stream Order	4
Basin	Gander River
Sampled By	NL
Accessibility	Accessed 14km south of TCH on road to Beaverbrook Mines. Sampled downstream of bridge crossing

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
Canopy Coverage		0 %	
Macrophyte Coverage		0 %	
Periphyton Coverage		0.5-1.0 mm thick	


Channel Data

Bankful Width	21.1 m
Wetted Width	14.2 m
Avg. Velocity	0.61 m/s
Max. Velocity	0.93 m/s
Avg. Channel Depth	24 cm
Max. Channel Depth	38 cm
Bankfull-Wetted Depth	60 cm
Slope	0.01 m/m

Water Chemistry

Parameter	Value	Units
pH	7.05	pH units
Conductivity	20.6	uS/cm
Dissolved Oxygen	10.2	mg/L
Temperature	12.22	°C
Turbidity	0.7	NTU
Copper	0.25	ug/L
Iron	0.51	mg/L
Lead	0.14	ug/L
Zinc	0.7	ug/L
Chloride	1.97	mg/L
Phosphorous (Total)	0.003	mg/L
Nitrate	<0.02	mg/L
Nickel	2.04	ug/L

Substrate

Dominant Substrate	small cobble
2nd Dominant Substrate	large cobble
Surrounding Material	gravel
Embeddedness	unembedded
Median Particle Size	8.95 cm
Geometric Mean Particle Size	8.8 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.

Careless Cove Brook at Resource Road Steel Bridge

NF02YQ0072

CENTRAL



Site Description

Site Code	NF02YQ0072
Name	Careless Cove Brook
Date Sampled	Oct. 17, 2012
Ecoregion(s)	Central Newfoundland
Stream Order	4
Basin	Gander River
Sampled By	NL
Accessibility	Accessed 14km south of TCH on road to Beaverbrook Mines. Sampled downstream of bridge crossing

Reach Data

Reach Characteristics			
Riffle	Rapid	Straight Run	Pool
X	X		X
Surrounding Vegetation (D=dominant)			
Ferns/Grasses	Shrubs	Deciduous Trees	Coniferous Trees
X	X (D)	X	X
Canopy Coverage		0 %	
Macrophyte Coverage		0 %	
Periphyton Coverage		0.5-1.0 mm thick	

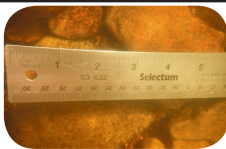
Channel Data

Bankful Width	32.7 m
Wetted Width	28.8 m
Avg. Velocity	0.56 m/s
Max. Velocity	0.75 m/s
Avg. Channel Depth	32 cm
Max. Channel Depth	48.5 cm
Bankfull-Wetted Depth	15 cm
Slope	0.013 m/m

Water Chemistry

Parameter	Value	Units
pH	6.11	pH units
Conductivity	16.4	uS/cm
Dissolved Oxygen	10.52	mg/L
Temperature	11.48	°C
Turbidity	2.5	NTU
Copper	0.04	ug/L
Iron	0.60	mg/L
Lead	0.18	ug/L
Zinc	0.91	ug/L
Chloride	2.42	mg/L
Phosphorous (Total)	0.004	mg/L
Nitrate	<0.02	mg/L
Nickel	1.79	ug/L

Substrate

Dominant Substrate	small cobble
2nd Dominant Substrate	large pebble
Surrounding Material	gravel
Embeddedness	unembedded
Median Particle Size	10.0 cm
Geometric Mean Particle Size	9.8 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>	