



Group: Inverness South Anglers Committee (Mabou & District Community Development Association)

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PART A: Project Description

Watercourse(s): Numerous watercourses throughout the Mabou and Inverness watersheds. In the Mabou watershed as part of the Mabou Estuary, we worked on North East Mabou River and two tributaries, Shea's Brook and a tributary we call the "Little Shea", Miramichi Brook, Glendyer Brook, MacNeil Brook and Rankin Brook. As part of the Inverness watershed we worked on the Broad Cove River and, More Brook and Fraser's Brook, each of which feeds into the Broad Cove River.

Watershed(s): Mabou and Inverness watersheds.

Project description and objectives:

- What habitat issues is this project is addressing?
Much of the work is to allow for the migration of fish and to create new, and maintain existing spawning habitat for the fish, and to improve the water quality. There have been very significant rainfall events over the past two years that has created significant obstacles in the rivers and streams as well as caused severe erosion. The work done by our crew improves the water quality, reduces sedimentation, and creates habitat for the spawning and natural growth and development for the fish. In general it produces a healthy watershed in numerous ways. To do this we clear debris jams and dams, allow the rivers and streams to flush by removing silt and accumulated sediment, install digger logs and deflectors, and perform bank stabilization (usually hand rocking). All these increase the amount of spawning habitat, allow for the migration of fish throughout the system and improve the general water quality of the system.
- Specific restoration work done this year i.e. techniques used, scale of structures, hand or machine work etc:
Our crew removed debris jams and dams, installed digger logs and deflectors, and performed bank stabilization. The in-stream structures range in width from 3 – 10 metres in width with most in the 4-8 metre range. All work in 2012 was done by hand.

Project Design and Results (Please complete one for each watercourse)

Watercourse: North East Mabou River (feeder streams)
Watershed: Mabou Harbour Estuary
Location : North East Mabou off North East Mabou Rd
Nearest Community: Mabou
Road crossing (access point): North East Mabou Rd and MacDonald's Glen Rd
Map # (NS Topo series 1:50 000): Lake Ainslie 11 K/3
Coordinates: Easting & Northing

1st Tributary at North East Mabou (Annie Jane)- 100 m debris

Start: N 46 05 421, W 61 24 327
Finish: N 46 05 491, W 61 24 272

2nd Tributary at North East Mabou (Frankie Gillis)- 150 m debris

Start: N 46 05 688, W 61 23 363
Finish: N 46 05 798, W 61 23 390

3rd Main River North East Mabou- 300 m 6 structures

Start: N 46 05 561, W 61 23 385
Finish: N 46 05 661, W 61 23 250

In-stream Structures

- Design width: 7-8 metres varying width
- Distance between structures: 50 metres
- Total length (meters) of stream restored: 1st Location – 100 metres; 2nd Location – 150 metres, 3rd Location – 300 metres
- Area in Sq. meters: 1050 sq metres (cleared), 2400 sq metres (structures)

Project Design and Results

Watercourse: Miramichi Brook (Roseburn)
Watershed: Mabou
Location : Roseburn
Nearest Community: Brook Village/Roseburn
Road crossing (access point): Roseburn Rd and Old Mull River Rd
Map # (NS Topo series 1:50 000): Lake Ainslie 11 K/3
Coordinates: Easting & Northing
Start: N 46 00 016, W 61 17 738
Finish: N 46 00 060, W 61 17 443

In-stream Structures

This stream has been cleared and flushed. It is awaiting flagging for structures in 2013. 400 metres of maintenance work was done in 2012.

- Design width: 4 metres
- Distance between structures:
- Number and Type of Structures
- Total length (meters) of stream restored: 400 metres
Area in Sq. meters: 1600 sq m

Watercourse: Miramichi Brook (Roseburn)

Watershed: Mabou

Location : Tommy MacLellan's - Roseburn

Nearest Community: Brook Village/Roseburn

Road crossing (access point): Roseburn Rd and Old Mull River Rd

Map # (NS Topo series 1:50 000): Lake Ainslie 11 K/3

Coordinates: Easting & Northing

Start: N 46 01 714, W 61 18 872

Finish: N 46 1 510, W 61 18 701

In-stream Structures

This stream has been cleared and flushed. It is awaiting flagging for structures in 2013. Approximately 400 metres of maintenance work was done in 2012.

- Design width: 4 metres
- Distance between structures:
- Number and Type of Structures
- Total length (meters) of stream restored: 400 metres
Area in Sq. meters: 1600 sq m

Project Design and Results

Watercourse: Rankin Brook

Watershed: Mabou Harbour Estuary

Location : Rankinville Rd (200 metres downstream from Rankinville Rd)

Nearest Community: Mabou

Road crossing (access point): Rankinville Rd and Beaton Rd

Map # (NS Topo series 1:50 000): Lake Ainslie 11/K3

Coordinates: Easting & Northing

Start: N 46 03 641, W 61 22 429

Finish: N 46 03 802, W 61 22 462

In-stream Structures

- Design width: 3 metres
- Distance between structures:
- Number and Type of Structures
- Total length (meters) of stream restored: 200 m
Area in Sq. meters: 600 sq m

Project Design and Results (Please complete one for each watercourse)

Watercourse: Broad Cove River

Watershed: Inverness

Location : Glenville (upstream from Glenora Distillery)

Nearest Community: Glenville (between Mabou and Inverness)

Road crossing (access point): Route 19

Map # (NS Topo series 1:50 000): Lake Ainslie 11 K/3

Coordinates: Easting & Northing

Start: N 46 09 314, W 61 18 971

Finish: N 46 09 239, W 61 19 223

In-stream Structures

- Design width: 5-7 metres
- Distance between structures: 30 m
- Number and Type of Structures: pre-existing diggers and deflectors
- Total length (meters) of stream restored: 250 m of debris removal/maintenance
Area in Sq. meters: 1500 sq m

Bank Stabilization and Riparian restoration:

- Length of bank:
- Height of bank:

- Width of watercourse:
- Method of stabilization:
trees planted:

Project Design and Results (Please complete one for each watercourse)

Watercourse: Fraser's Brook

Watershed: Inverness (flows into Broad Cove River)

Location : Foot Cape Road, Foot Cape

Nearest Community: Foot Cape (near Inverness)

Road crossing (access point): Foot Cape Road

Map # (NS Topo series 1:50 000): Lake Ainslie 11 K/3

Coordinates: Easting & Northing

Start: N 46 12 179, W 61 19 080
Finish: N 46 12 233, W 61 19 330

In-stream Structures

- Design width: 4 metres
- Distance between structures: 24 metres
- Number and Type of Structures: 4 digger logs
- Total length (meters) of stream restored: 250 metres
Area in Sq. meters: 1000 sq m

Bank Stabilization and Riparian restoration:

- Length of bank:
- Height of bank:

- Width of watercourse:
- Method of stabilization:
trees planted:

Watercourse: More Brook
Watershed: flows into Broad Cove River (Inverness)
Location : downstream from Deepdale Road
Nearest Community: Deepdale (Inverness)
Road crossing (access point): Deepdale Road
Map # (NS Topo series 1:50 000): Lake Ainslie 11 K/3
Coordinates: Easting & Northing
Start: N 46 13 491, W 61 16 591
Finish: N 46 13 529, W 61 16 844

In-stream Structures

- Design width: 5-6 metres
- Distance between structures:
- Number and Type of Structures:
- Total length (meters) of stream restored: 100 metres of maintenance and 100 metres debris removal
Area in Sq. meters: 1000 sq m

Bank Stabilization and Riparian restoration:

- Length of bank:
- Height of bank:

- Width of watercourse:
- Method of stabilization:

trees planted:

Watercourse: Glendyer Brook

Watershed: Mabou Estuary

Location : Kathy MacIntyre's residence Glendyer (near Mabou)

Nearest Community: Glendyer

Road crossing (access point): Smithville Road

Map # (NS Topo series 1:50 000): Lake Ainslie 11 K/3

Coordinates: Easting & Northing

Point: N 46 05 075, W 61 21 107

Severe erosion and debris jam had caused river to change course. The debris was removed and bank stabilized with hand rock (a neighbour's bobcat was also used). The river regained its natural course and the damage was corrected.

In-stream Structures

- Design width: 10 metres
- Distance between structures:
- Number and Type of Structures:
- Total length (meters) of stream restored:
Area in Sq. meters:

Bank Stabilization and Riparian restoration:

- Length of bank:
- Height of bank:

- Width of watercourse:
- Method of stabilization:
trees planted:

Watercourse: Sheas Brook

Watershed: Flows into Mull River (Mabou Estuary)

Location : near Van de Heuvals farm

Nearest Community: Brook Village

Road crossing (access point): Route 252

Map # (NS Topo series 1:50 000): Lake Ainslie 11 K/3

Coordinates: Easting & Northing

Start: N 46 02 772, W 61 18 065

Finish: N 46 03 025, W 61 17 869

In-stream Structures

- Design width: 8-10
- Distance between structures:
- Number and Type of Structures: pre-existing
- Total length (meters) of stream restored: 200 metres of debris/dam removal
Area in Sq. meters: 1600 sq m

Bank Stabilization and Riparian restoration:

- Length of bank:
- Height of bank:

- Width of watercourse:
- Method of stabilization:
trees planted:

Watercourse: Little Sheas Brook

Watershed: flows into Sheas Brook (Mabou Estuary)

Location : near Brook Village

Nearest Community: Brook Village

Road crossing (access point): Old Mull River Rd & MacNeil Lane

Map # (NS Topo series 1:50 000): Lake Ainslie 11 K/3

Coordinates: Easting & Northing

Start: N 46 01 955, W 61 17 947

Finish: N 46 01 891, W 61 17 840

In-stream Structures

- Design width: 4-5 metres
- Distance between structures: 24 metres
- Number and Type of Structures: 5 digger logs
- Total length (meters) of stream restored: a 125 metres with new structures and an additional 100 metres cleared of debris jams
Area in Sq. meters: 900 sq m

Bank Stabilization and Riparian restoration:

- Length of bank:
- Height of bank:

- Width of watercourse:
- Method of stabilization:
trees planted:

Watercourse: MacQuarries Brook

Watershed: flows into Sheas Brook (Mabou Estuary)

Location : near Jeff Lee's
Nearest Community: Brook Village
Road crossing (access point): Chapel Road
Map # (NS Topo series 1:50 000): Lake Ainslie 11 K/3
Coordinates: Easting & Northing
Start: N 46 04 465, W 61 14 989
Finish: N 46 04 663, W 61 14 989

In-stream Structures

- Design width: 5 metres
- Distance between structures: awaiting flagging
- Number and Type of Structures:
- Total length (meters) of stream restored:
Area in Sq. meters:

Bank Stabilization and Riparian restoration:

- Length of bank:
- Height of bank:

- Width of watercourse:
- Method of stabilization:
trees planted:

Other habitat restoration measures taken:

Overall Project Results

- Total Number and Type of Structures: 15 digger logs and deflectors (mostly digger logs)
- Total length (meters) of stream restored: 2900 m
- Total Stream Area in Sq. meters: 14,000 sq m
- Total Riparian Area in Sq. meters: 500 sq m
- Total Number of Trees planted:

Past Work & Future Plans:

Has habitat work been done on this watercourse in previous years? How much? Is further additional work planned or anticipated?

This was our 9th season of restoration work on these watersheds. We have had significant work done in previous years which is standing up very well consider the extreme weather events that have occurred over the past few years. We have restored approximately 10-12 km of streams in the Mabou and Inverness watershed, with continued work planned for future years.

PART B: Project Delivery (Overall project, not by watercourse)

Volunteer Contribution

- Describe how volunteers contribute to your Adopt-A-Stream project and to your organization in general.

All of the administration, organization and planning is done by volunteers. The only persons being compensated are the crew, and the only expenses are for their supplies and/or training. Even the crew members are dedicated and volunteer their time throughout the year, outside of our seasonal restoration activities.

- Number of People volunteering on all aspects of the project: 20
- Total Volunteer Hours: 400
- Approximate breakdown of roles
 - Management / Supervision: volunteer
 - Labour: 3 paid crew members
 - Other:

Paid Crew

- Number of workers: 3 crew members
- Weeks of work: 2 – 14 weeks; 1 –7 weeks

Other Information

- List other project sponsors and contributions:
ASCF \$7,500.00

- Please describe any other additional activities undertaken to support the project (education, promotion, population assessments etc.):

IMPORTANT -

PLEASE SEND PHOTOS AS SEPARATE FILES NOT JUST EMBEDDED IN THE REPORT. These may be also be used for publication and promotion purposes.

Please also include copies of any media articles about the project