

# Canada Fluorspar Inc. Fishery Offset Plan



**A Fishery Offset Plan** is being developed for the St. Lawrence Fluorspar Project to offset effects to fish and fish habitats. Based on surveys in St. Lawrence, it was determined that Salt Cove Brook could be enhanced to support recreational fisheries.



## PROJECT BACKGROUND

Canada Fluorspar Inc. (CFI) is proposing to develop and operate the St. Lawrence Fluorspar Mine (the Project) in St. Lawrence, in the province of Newfoundland and Labrador (NL). The proposed project is located in proximity to the town of St. Lawrence on the Burin Peninsula, Newfoundland. The site is partly on a brownfield site on which mining and milling activities have occurred since the early 1930s.

The Project will be undertaken in four specific phases, contingent on receipt of all required approvals, permits, and authorizations: Pre-construction (ongoing); Construction (Q1 2016 to end of 2017); Operations (2017 to 2026); and Rehabilitation and closure (2027 to 2029).

## FISHERY OFFSET

Under the federal Fisheries Act, this project will affect fish and fish habitat that must be authorized by Fisheries and Oceans Canada (DFO).

The authorization process (Fig 1) requires that a Fishery Offset Plan be developed to offset any negative effects, which involves:

- **Describing and quantifying the aquatic habitat within and near the project site that may be affected**

- **Predicting the effects to fish and fish habitats associated with the project**

- **Developing measures to offset these effects**

The Offset Plan is directed towards increasing opportunities for recreational fishing in Salt Cove Brook by:

- **Increasing fish production in existing stream habitat near the project site for spawning**
- **Increasing habitat access to salmon**

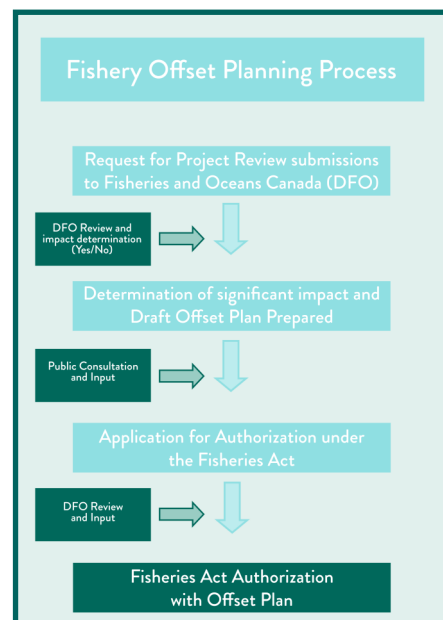


Fig. 1: Fish Offset Planning Process

Fish habitat surveys were completed on streams and rivers in the St. Lawrence area between 1998-2016. The surveys revealed that additional spawning habitats in Salt Cove Brook and repairs to existing barriers and tailings breaches would foster greater habitat suitability and spawning for Atlantic salmon and brook trout.

Habitat enhancements would include:

- **Modifying an existing concrete barrier to provide better access to habitat upstream**
- **Repair a localized tailings breach to improve habitat and water quality**
- **Enhance existing spawning habitat with additional spawning material and stabilizing structures**

### FISHERY OFFSET AREAS

The areas of the concrete barrier, tailings breach, and spawning enhancements areas are shown in Fig 2. All are located within Salt Cove

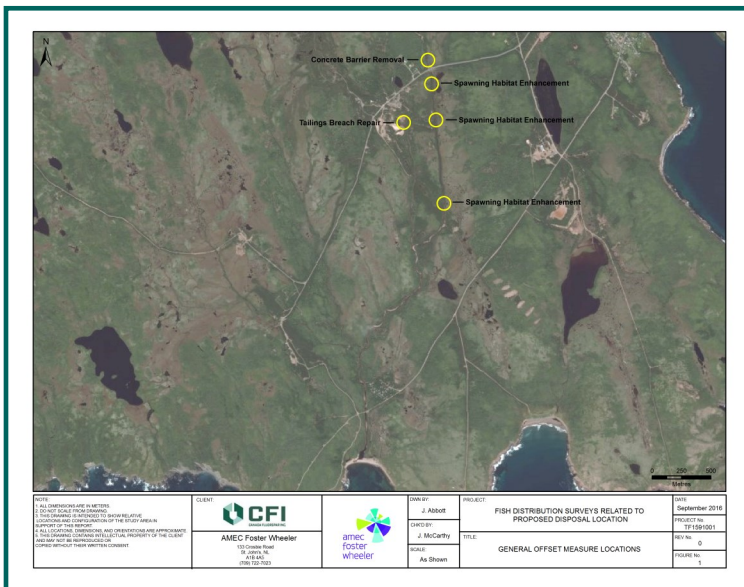


Fig. 2: Fish Offset Plan Locations

### FISH BLOCKAGE

The concrete barrier will have a small engineered notch created within the wall to allow fish passage but retain upstream habitat and water collection for local dwellings.



### TAILINGS BREACH REPAIR

Tailings will be pushed back from the stream edge and secured with clean berm.

### SPAWNING HABITAT ENHANCEMENT

Salt Cove Brook will have considerable spawning habitat enhanced to increase production of young-of-year and juvenile Atlantic salmon and brook trout.

Habitat features are designed to remain biologically stable for salmon and trout spawning.

Construction will be in winter to avoid disturbing shoreline vegetation.

Monitoring commitments will ensure it operates as intended.

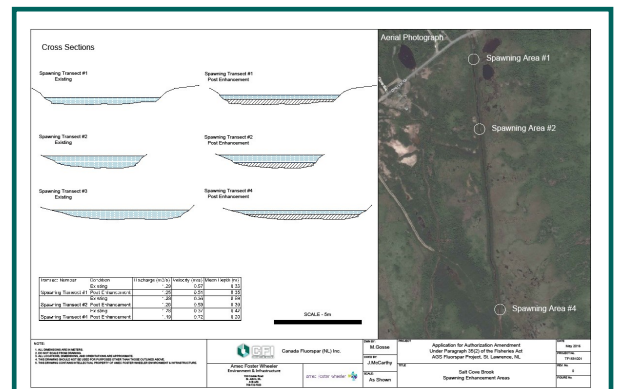


Fig. 3: Typical spawning habitat layout

For more info, please contact:  
[info@canadafluorspar.com](mailto:info@canadafluorspar.com)  
 (709) 873-3331 ext. 224