



Atlantic Industries Limited

PROJECT PROFILE



March 24, 2025

Manitoba Hydro goes with a reinforced Super-Cor stream crossing to withstand Hudson Bay ice flow forces

The Goose Creek Fishway replacement is an interesting project that shows the versatility of AIL's Super-Cor Buried Metal Bridge System to travel by road and train to be constructed in a remote Northern area.

Manitoba Hydro needed to replace an older structure that had been severely damaged by ice pressure coming off James Bay near Churchill. The project team selected a more robust AIL Super-Cor High Profile Arch with extra thick MSE Precast Panel Walls.



Project at a glance:

Project Name: Goose Creek Fishway

Location: Churchill, MB

Owner: Manitoba Hydro

Consultant: KGS Group

Contractor: Tri-Core Projects

Sector: Northern

Application: Stream Crossing

Product: Super-Cor Arch,
MSE Precast Panel Walls

Arch Dimensions: Span 7.5 m, Rise 6.9 m

Installation Time: Three months



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To resist the ice-force on the downstream side facing Hudson Bay, that headwall was backed by a thick, cast-in-place concrete wall which was reinforced with flat sheets of Bolt-A-Plate. And, to avoid corrosion from salt water, plastic geogrid was used for the MSE soil reinforcement on both headwalls.

Components traveled first by road and then by rail

There are no roads past Thompson, so the structure components needed to finish their journey by rail to get to the site. Our logistics team worked closely with the freight carrier and the rail yard to ensure our shipment made it in time before the weekly cut off for the train departure.

We maintained constant communication with the owner, consultant and contractor to be certain that construction would align with the fish window period. The client noted that it was a successful project completed in a remote area on time —not always an easy task.



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