

PROJECT:

Clean-up and remediation of the former Cap-Blanc Landfill, Anticosti Island

CHALLENGES

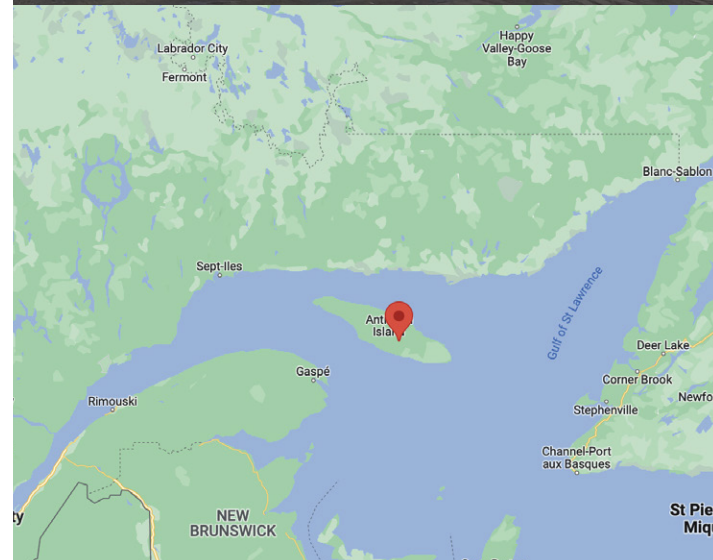
The main challenges consisted in stabilizing the oceanfront embankment and disposing of the soils and materials by maritime transport.

BACKGROUND

The site, which borders Ellis Bay, is a former landfill managed by the MERN that served over a long period to bury domestic and industrial waste. The oceanfront embankment on the site was eroded at the base (bluff) by waves, ice, and the tide. This erosion posed an issue, as it caused instability in the slopes and landslides that dragged the wastes and soils to the base, onto the shore, and into Ellis Bay. In 2021, as part of a public RFP, SANEXEN was retained by the MERN as the site remediation contractor.

Over the past century, volumes of wastes varying in origin (construction, residential, hunting and fishing) and soils from Anticosti Island had been dumped on the central portion of the site and the bluff. Previous environmental studies revealed soils contaminated at concentrations above Schedule II of the LPRR and Schedule I of the RRBCS, and the presence of hazardous and non hazardous residual materials covering a large area of the site.

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SITE RESTORATION

Project location: Anticosti Island, Qc

Quantity of soil disposed: 123 m³

Project date: 2022

SOLUTION DEVELOPED

- Excavation and off site management of residual materials and contaminated soils by a combination of maritime and truck transportation. The material was transported from Anticosti Island to the approved disposal facilities (Signaterre and Stablex);
- Stabilization of the oceanfront embankment through the excavation of the problematic soils covering the bedrock, as well as the creation of a **5 m safe zone** atop the embankment;
- Surface profiling after backfilling using soils containing less than 2% site debris over an estimated **50,000 m²** to meet the landowner's requirements, and allow for adequate drainage;
- Seeding the area.



In numbers, the project performance and results can be summarized as follows:

- Off site disposal in approved facilities of approximately **145 m³ of HRMs** and **125 m³ of soils**;
- Off site management, at the Anticosti Island trench disposal site, of an estimated **645 m³ of non hazardous residual materials**.

HRM: Hazardous residual material

MERN: Ministère de l'Énergie et des Ressources naturelles

LPRR: Land Protection and Rehabilitation Regulation (CQLR, Q-2, r.37)

RRBCS: Regulation Respecting the Burial of Contaminated Soils (CQLR, Q-2, r.18)

CONTACT



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