

## CASE STUDY

### Site Remediation - Multi-layer Geosynthetic Lining System



▼ **LOCATION:** Fort Laird, North West Territories

▼ **PROJECT TYPE:** Product Supply and Installation

▼ **PRODUCT USED:** Prefabricated 30mil Smooth LLDPE Liners | 220-2-8 Geocomposite

▼ **PROBLEM:**

A client had approximately 6,500 m<sup>3</sup> of chloride-impacted soil and sediment that needed to be stored in a lined containment cell as part of ongoing efforts to rehabilitate a long-standing gas production site for alternate use such as harvesting, farming, plant gathering, and camping.

▼ **THE TITAN SOLUTION:**

Titan, as a geosynthetics solutions leader, was the preferred choice for this containment project and was turned to for our expertise.

After careful consideration of needs, we proposed a three-layer geosynthetic lining system consisting of prefabricated 30mil smooth LLDPE geomembrane in conjunction with a 220-2-8 Geocomposite drainage layer followed by another top layer of prefabricated 30mil Smooth LLDPE geomembrane. These materials were selected for this application based on cost-effectiveness, high chemical resistance, and eco-friendliness.

This robust system is ensuring that contaminants such as hydrocarbons and chlorides, could be safely eliminated from the site, providing environmental protection.



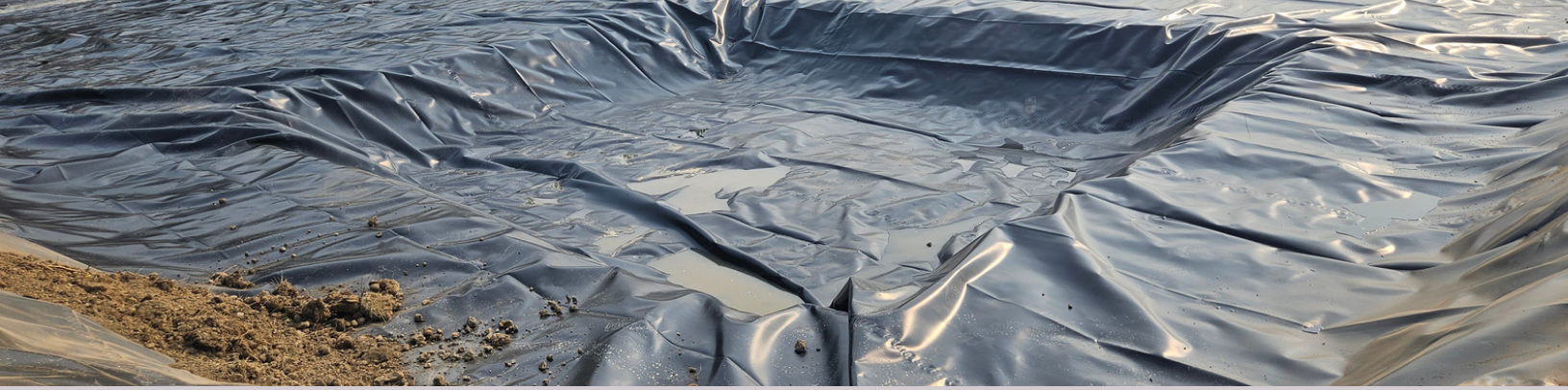
Contact us for more information:

**TITAN ENVIRONMENTAL CONTAINMENT**

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#### ACHIEVEMENT:

Using the latest technology, the panels were prefabricated to reduce field welding for quicker installation resulting in cost-savings for the customer.

The remote location of this project made geomembrane fabrication a better solution than on-site seaming for logistical reasons. The panels were uniquely packaged by Titan to accommodate delivery by barge to the site from Fort, Liard, which was the only access point.

Titan prefabricated and installed 132, 266 SF of 30mil Smooth LLDPE geomembrane panels and 44, 088 SF of Geocomposite Drainage Layer over a period of 4 days with three highly trained technicians.



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