



CASE STUDY

Mining Spillway & Dam Raise -- Multi-layer Lining System

LOCATION: Stewart, British Columbia

PROJECT TYPE: Product Supply & Installation

PRODUCT USED: TE - NW Geotextile, 60 mil HDPE



CHALLENGE:

A mineral development company on a Northern mine site in British Columbia required a geosynthetic solution for a mining spillway and dam raise.

TITAN SOLUTION:

Championed as a geosynthetic solutions leader, Titan was selected as the main supplier and installer for this project.

The system consisted of a 60mil Textured HDPE geomembrane liner along with a TE -12 oz nonwoven geotextile underlay acting as a cushion. These materials were chosen for their cost-effectiveness, strong chemical resistance, and environmentally friendly nature.

ACHIEVEMENT:

The site conditions were difficult with frequent rain and snow, and the occurrence of rock blasts every two days. Debris from these blasts caused damage to the already deployed geomembrane, which required repairing. Despite these challenges, our team was committed to maintaining high quality standards. We went above and beyond to ensure that the geomembrane was welded to the required standards and that all seams were properly tested. We did not compromise on quality while installing approximately 360,000ft² (33,000 m²) of HDPE geomembrane and geotextile.

