

# Bentofix Landfill Base

Year of Construction: 2019

Location: British Columbia

Product Installed: Bentofix SRNWL

(A double nonwoven Scrim-Reinforced GCL)

CASE STUDY

## CHALLENGE

Long steep slopes without mid-slope anchor trenches

## SOLUTION

As with most types of manufactured products within a given category, there are sufficient differences such that no two products are truly equal to one another. Geosynthetic Clay Liners (GCLs) are no exception. Bentofix SRNWL is a Thermally-Locked Scrim-Reinforced GCL which offers three built-in textiles that offers a low bulk void ratio (less airspace – low permeability) and a more robust GCL to withstand on-site conditions (deployment & weather resistance) compared to other types of GCLs on the market.

SRNWL is highly recommended for steep slope applications in landfills. Scrim-Reinforced GCLs have been shown to not shrink under exposed geomembranes (HDPE/LLDPE) in landfill applications compared to GCLs that are not scrim-reinforced. Mid-slope anchor trenches are highly recommended with the use of standard roll sizes at 45.72m. This project used rolls up to 65m in some locations of the landfill base cell, however at weight of over 4,000 lbs. we recommend that project designers and/or engineers to stay within an acceptable GCL roll weight of 2,500 lbs., ie. 45.72m long rolls.

## SPECIAL NOTE

- Over 100,000 SQM were made, tested, and supplied.
- Scrim-Reinforced double nonwoven GCL.
- Thermally Locked GCL / low bulk ratio rasion compared to other GCLs.
- SRNWL / our most robust GCL.
- Weather resistant GCL compared to other GCLs.
- High Peel & Tensile Strength GCL.
- High puncture resistant GCL.
- Scrim-Reinforced GCL / no shrinkage issues compared to other GCLs.
- Scrim-Reinforced GCL / no internal bentonite loss vs other GCLs.
- SRNWL - 3 decades of academic research – proven tested stand out vs other GCLs.

