An alternative to compacted clay or plastic liners, GCLs are used for a variety of liquid containment applications.

INTRODUCTION to GCLs
The GCL is placed on the sub grade, and then covered with 12" of soil (Drawing Not-to-scale).
As the GCL hydrates...
...the clay swells...
Min 12" Cover Soil (NTS)
Sub grade
GCL
GCL provides a high density impervious lining.

Containment / Separation Facilities
GCLs provide a safe, cost effective solution for a number of applications that require isolation and/or confinement for later treatment of a number of liquids, such as containment basins, ponds & lagoons holding liquids such as storm water, industrial sludge, waste water, agricultural and animal wastes etc.
GCLs will also provide protection of ground water from seepage into high ground water levels.

Storm Water Basins
Many storm water basins incorporate a clay core to create an impervious berm...
GCLs can replace the clay cores for a more cost effective and environmentally friendly application.
Cost Effective
When all aspects of liner implementation are considered:
- Material, Hauling, Construction, CQA, And Environmental Impact Costs

GCLs provide a more overall cost effective application than conventional liners

Total installed costs for Geosynthetic Clay liners
Total installed costs for conventional liners

Minimized Environmental Impacts
One truckload of GCL replaces up to...

...200 trucks of hauled clay.
The 200 trucks of hauled clay can represent significant noise, dust, sediment and non-point source pollution.

Survivability
Self Seaming
- GCLs only require a 3” to 6” minimum overlap for side-to-side and end-to-end seams.

Self Healing
- Sodium Bentonite GCLs swell to seal around penetrations
- Sodium Bentonite GCLs will self heal up to 1” holes

No specialty equipment or contractors are needed.