High-Performance Geosynthetics for Ash (CCR) Pond Capping

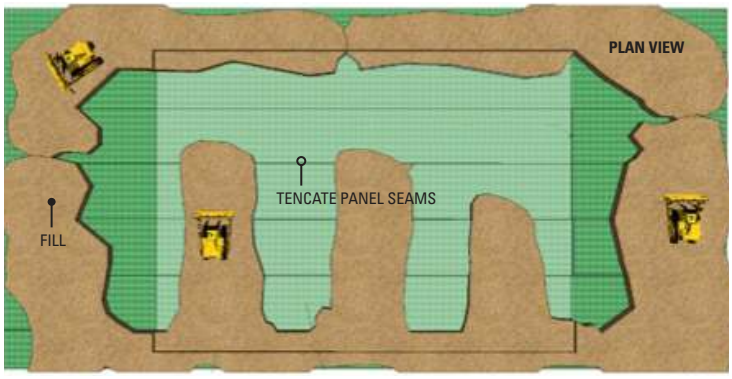
TenCate, the world's leading provider of geosynthetics and industrial fabrics, offers new, quick and safe ways to treat waste materials produced by industrial facilities. High-performance geosynthetics are used to stabilize soft/wet ash ponds, allowing the placement of the top cover system and compacted fill.

Pond capping with TenCate's geotextiles has become a viable alternative due to many advantages:

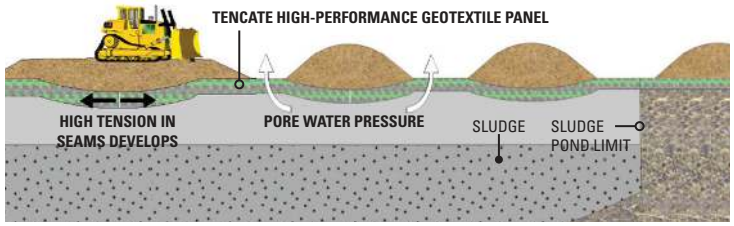
- Engineered seams allow for efficient installation of large geotextile panels with extremely high seam strengths to create a stable capping system.
- Quickly and safely facilitates the complete closure of storage basins and ponds.
- Allows water to pass through to relieve pore pressure.
- Contains the fine-grained sludge material below, and separates sludge from clean fill above.

Without high-performance geotextiles, pond capping would be extremely difficult or impossible to perform. With expert engineering knowledge, the right tools and experience, TenCate has successfully designed numerous pond capping and closure projects all over the world.

Discover more about TenCate Geosynthetics at mirafi.com, call 706.693.1838, or email marketing.info@tencate.com



Fill soil is placed over the sludge/ash pond.



When fill is placed over the geotextile panel, the sludge/ash will increase in shear strength as pore water pressures dissipate through the panels.

High seam strengths are critical to the field performance of the panels to prevent rupture during fill placement over the low-bearing capacity sludge/ash.

Geogrid

Geotextiles

Geotextile advantages include excellent separation, higher tensile strength and large seaming panels for quicker installation.

TENCATE™
materials that make a difference

TENCATE Geotube®

GEOSYNTHETICS

Dewatering Technology for Ash Pond Waste

Industrial byproducts, such as fly ash and bottom ash, can be a real challenge for both small and large facilities to remove and manage. With Geotube® dewatering technology, facilities can easily consolidate waste materials by using TenCate's specially engineered fabrics that retain the solids while releasing the clear water through the fabric pores.

Geotube® dewatering technology is an economical and sustainable water-management option with many advantages:

- Maintains key water-quality discharge parameters and sufficient free board for continuous operation.
- Safely contains fly ash.
- Prevents airborne particle contamination from windblown ash piles.

There's potential beneficial reuse of consolidated ash residuals to create structures, road base applications or even to build up the berms around a lagoon to increase its capacity. Reuse of these materials preserves limited landfill space that would otherwise be consumed by normal disposal. In some fly ash operations, there is no need to add polymer to the dewatering process, making it simple and affordable.

Discover more about TenCate Geosynthetics at geotube.com, call 706.693.1833, or email c.timpson@tencate.com

Volume reduction can be as much as 90%.

Flexible technology for projects large and small.

Consolidated ash residuals can be reused for various construction applications.

TENCATE™
materials that make a difference