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What happens
when the leader
in geosynthetics
focuses its energy
toward a specific
solution?



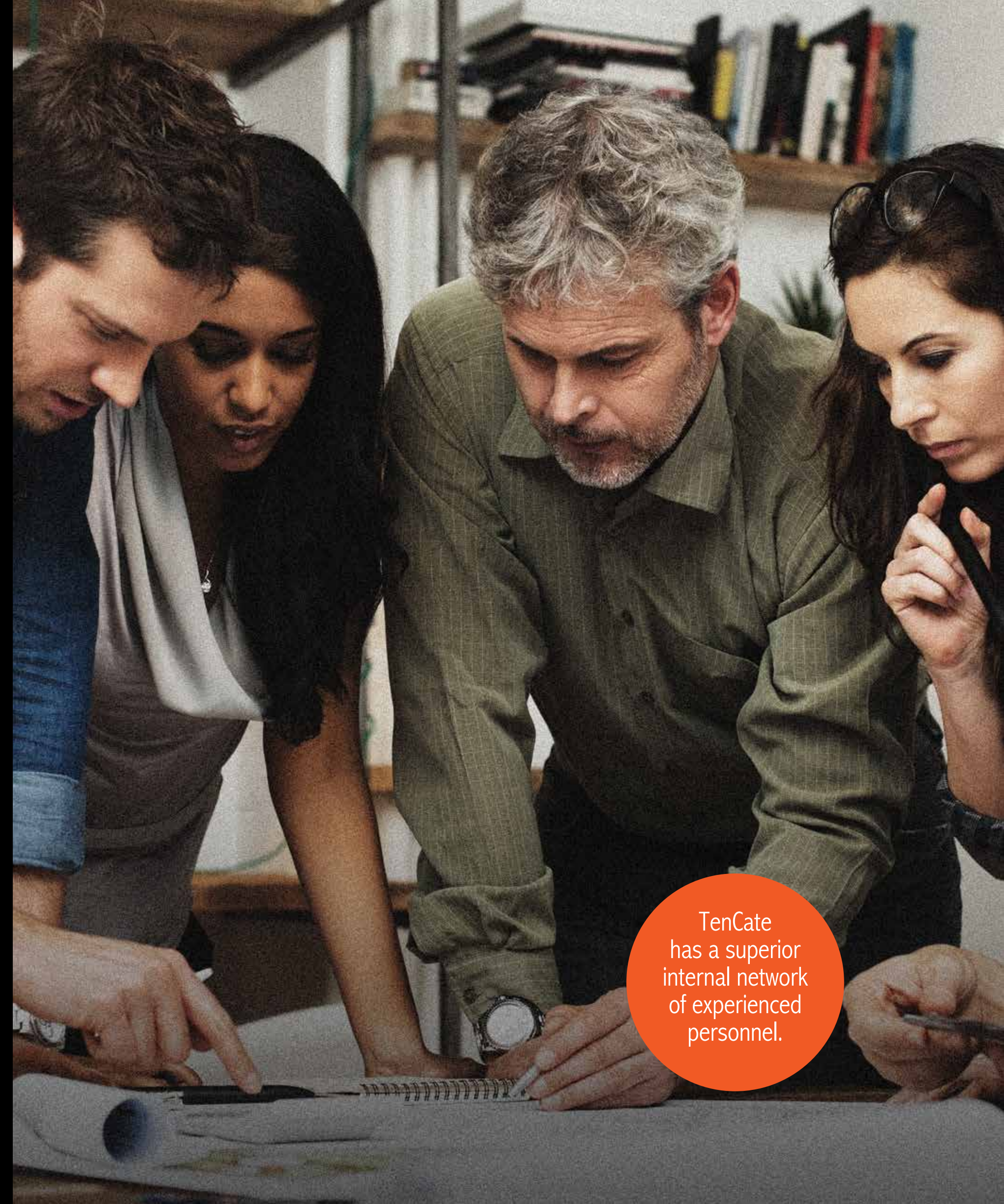
Resources are assembled.

At TenCate, we recognized a specific need to access soft, saturated ponds in order to begin closure with a compacted clay layer or geomembrane. So we utilized our resources and designed a system to effectively meet that need.

Our high-strength woven geotextile panels with an engineered seam provide a stable construction platform to enable the safe and effective closure of ponds.

We offer innovative and reliable options for the closure of waste ponds produced by industrial facilities. We provide high-grade solutions where they're needed most.

TenCate is the global leader in geosynthetics — with a focus on safety, protection and sustainability. Our geotextiles and geogrids are engineered with advanced application knowledge to meet project specifications for nearly all facets of transportation, energy, mining and environmental construction. TenCate Geosynthetics develops and produces materials that increase performance, reduce costs and enable people to achieve success by leveraging our technology and expertise.



TenCate
has a superior
internal network
of experienced
personnel.

Experience is leveraged.

At TenCate, we have a history of providing effective solutions for our customers. With over 30 years of design experience and more than 50 successful closures — the most in North America — we continuously set the standard for geosynthetics. With advanced application knowledge of either complete capping solutions or design and construction of geosynthetic reinforced access roads, we provide engineered solutions to fit your individual needs.

Combining the expertise of our internal team and best-in-class network of distribution partners and geosynthetic installers results in unmatched service to owners, engineers and contractors. From the planning and designing stage through installation, we're ready to assist you.

**VIEW OUR POND CAPPING
CASE STUDIES @ WWW.MIRAFI.COM/CAPPING**

ACCREDITED AFFILIATIONS



www.mirafi.com/capping

TenCate
has capped more
than 50 ponds —
the most in
North America.



Products are born.

TenCate specifically developed the Mirafi® CR-Series of high-performance products for the pond capping market. These thoroughly engineered products allow clay or geomembrane installation, as well as construction access roads over ponds, without the need for conventional, costly and time-consuming techniques.

CR220

Mirafi® CR220 is a light-duty reinforcement geosynthetic designed for surface impoundments with a firm crust, but soft, saturated soils below.

CR330

Mirafi® CR330 is a unique product with balanced strength developed specifically for the coal ash market. Due to its evenly distributed stability, placement of fill becomes less relevant – making it simpler for the contractor. This is our most versatile reinforcement capping system.

CR440

Mirafi® CR440 is our strongest capping reinforcement product yet – making it the recommended choice for extremely soft or saturated soils.

**ALL PRODUCTS CAN BE FACTORY OR FIELD SEWN
TO AVOID COSTLY PERSONNEL/SAFETY CONCERNS.**



Separation

Our pond-capping products effectively contain the fine-grained sludge materials below, and separate sludge from clean fill above.



Confinement

The superior soil confinement results in greater load distribution and improved bearing capacity.



Filtration

Excellent water flow rates while controlling separation allows for pore water pressure dissipation and improved subgrade shear strength.



Reinforcement Strength

High tensile modulus properties ensure greater reinforcement and safety – creating a durable, damage-resistant solution.



Seam Strength

Engineered seams allow for efficient installation of large geotextile panels with extremely high strength levels to create a stable capping system. High-strength seams are critical to the field performance of the panels to prevent rupture during fill placement over the low bearing capacity sludge/ash.

Efficiency is **maximized.**

The key to finding the best solutions is efficiency. Our goal is to ensure that your project runs smoothly and deadlines are met. Mirafi® engineered seams, a factor that sets us apart from the competition, give you the best solution with the highest strength levels possible. High-strength geotextile rolls are manufactured at TenCate's world-class facility and either sewn into panels prior to shipment or sewn onsite by a Mirafi® recommended geosynthetic installer.

These cost effective capping and access road solutions can accommodate a wide variety of fill materials, including sand, crushed stone, ash and clay. TenCate's experienced engineers also provide recommendations on the product based on your individual needs. And thanks to our extensive, best-in-class network, you'll have the help you need to get the job done right. We don't just offer a product, we offer a complete engineered solution that is safe, reliable and installs faster with fewer complications — saving you time, money and labor.

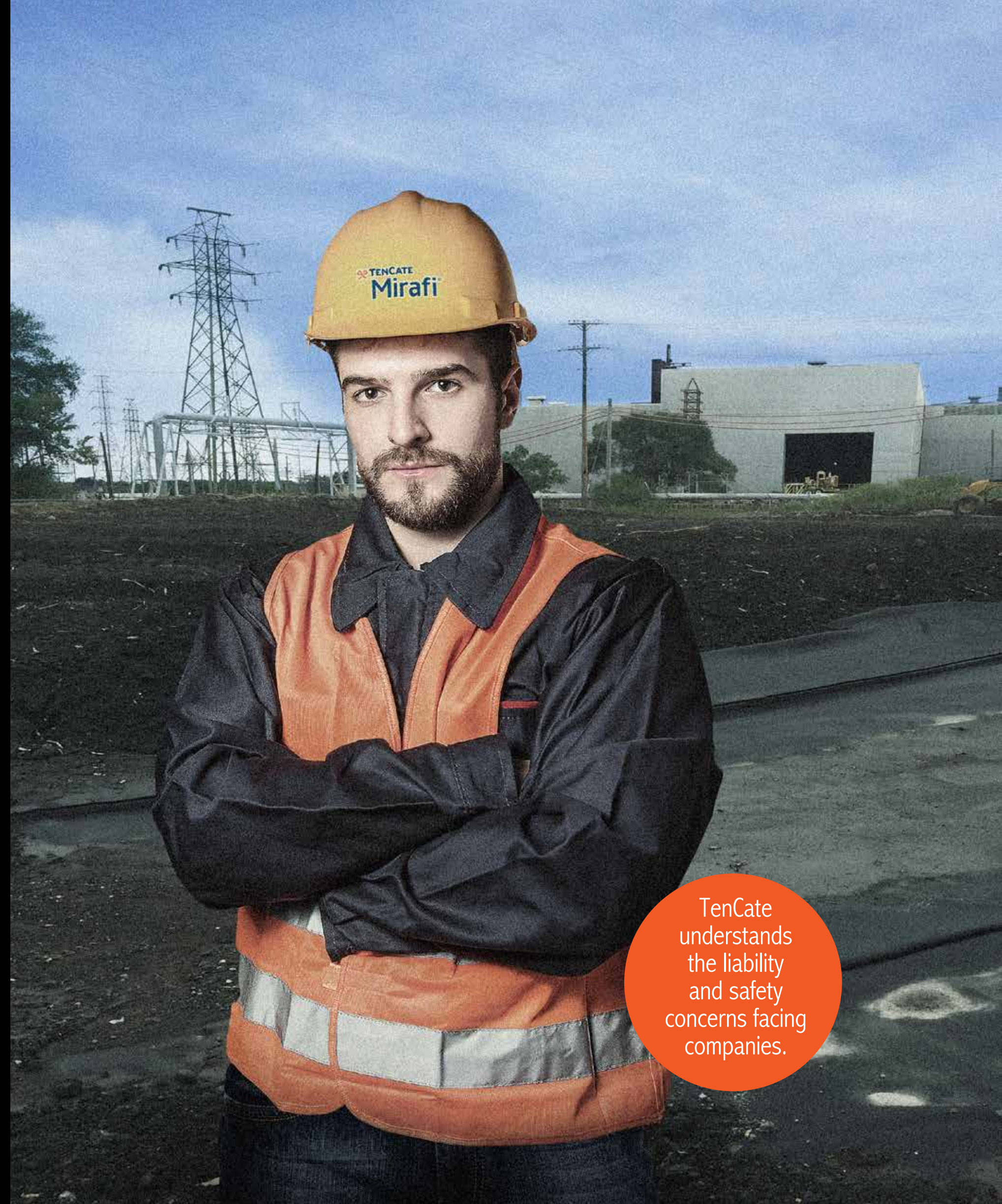


Mirafi's
engineered
seams give you
the highest
strength levels.

Safety remains paramount.

While the safety of our communities and citizens is top of mind when capping ponds, the safety of those installing the products is just as important.

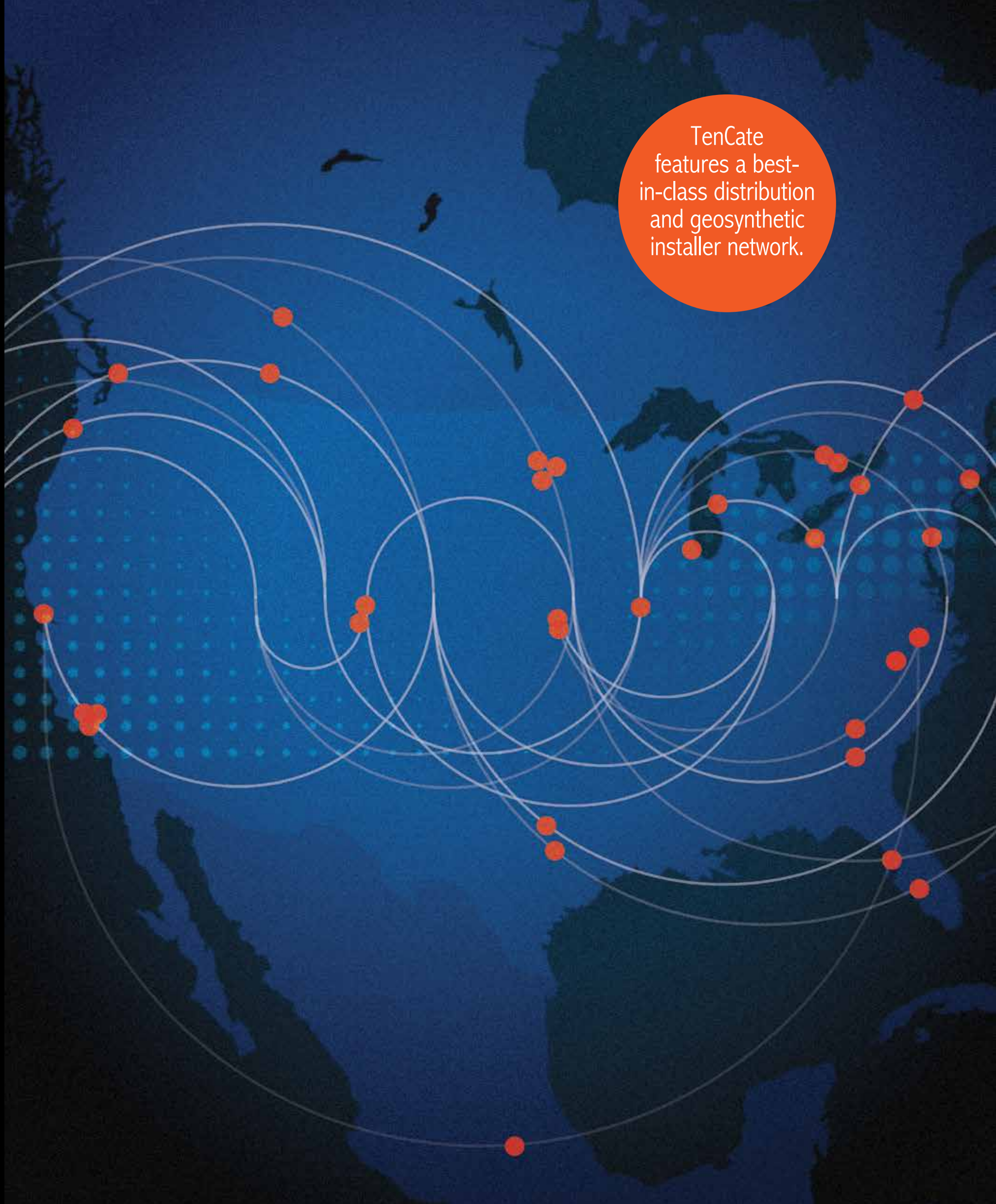
As an experienced industry leader, TenCate understands the liability and safety concerns facing companies when capping ponds. Our expertise in the area, along with our high-quality products, allows us to safely and effectively cover even the most difficult-to-reach ponds — limiting your risk and giving you peace of mind. Quite simply, our pond capping stabilization systems are safer than other geosynthetic alternatives. Unlike traditional methods of overlapping adjoining rolls of geotextile or geogrid, the Mirafi® engineered seam is thoroughly reviewed and checked during the design process. This creates larger panels and adds stability, so large equipment can safely and easily access the surface impoundment. With TenCate, you can be confident you're getting the highest level of safety available.



TenCate
understands
the liability
and safety
concerns facing
companies.

Networks are **utilized.**

TenCate has the leadership, experience and widespread reach to get the job done right. Not only is our network the most expansive, it's also the most proven. And they're people we know and trust. We've built strong relationships with our vetted partners, because we have a shared history of meeting our customers' needs. Our network features a best-in-class distribution and geosynthetic installer network, as well as a superior internal network of experienced personnel that will assist you from start to finish. With invaluable knowledge from trusted partners, paired with the most innovative products on the market, you can trust TenCate for all of your pond capping needs.



TenCate
features a best-
in-class distribution
and geosynthetic
installer network.

Dewatering is covered.

Our Geotube® dewatering and containment technology is a simple, effective alternative to pond capping. The flexible technology works for facilities of any size, on projects both large and small. Using TenCate's specially engineered fabrics, the waste materials are contained inside, while the clean effluent is released through the fabric's small pores — reducing volumes by up to 90%. This also maintains key water-quality discharge parameters and prevents airborne particle contamination, while providing protection through containment against rain and external events.

By incorporating Geotube® technology, coal-fired facilities have an alternative to dewater and contain CCRs, providing solutions for the remediation or clean closure of surface impoundments. An additional Geotube® application includes the beneficial use of dewatered CCRs to enhance sustainability by eliminating the need to landfill. Finally, direct sluicing into Geotube® containers can eliminate the need for surface impoundments.



Manage
your industrial
byproducts in a safe
and cost-effective
manner.

LEARN MORE @ [GEOTUBE.COM](https://www.geotube.com)

www.mirafi.com/capping

Knowledge is shared.

**Schedule a lunch consultation to see
our pond capping stabilization capabilities,
and we'll cover everything.**

Our products are a function of engineering design and incorporate advanced and innovative application knowledge. Let us offer the right product solution for your needs.

*Sign up online or request more information:
www.mirafi.com*

*Contact:
706.693.1838
capping@tencate.com*