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# TITAN USA TIMES

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FALL 2015



## Titan Installs State-of-the-Art Closure System in Minnesota

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## ▶ Titan Installs State-of-the-Art Closure System in Minnesota

Titan USA is thrilled to have supplied and installed the first ClosureTurf® landfill closure system at MarKit County landfill in Hallock, Minnesota. Unlike any other closure system, ClosureTurf® is a cutting-edge three-component system comprised of a structured impermeable geomembrane, an engineered turf, and a specialized sand infill. The heavy duty geomembrane, manufactured by AGRU America, includes studs on the top for high capacity drainage of rainfall, and spikes on the bottom providing the highest interface friction on the market.

Designed to handle gas pressure build up, eliminate releases and avoid soil sliding, ClosureTurf® is proven to significantly outperform traditional vegetative closure methods as far as installation, maintenance and environmental compliance. MarKit County chose ClosureTurf® for their landfill project for a variety of reasons including its natural aesthetic appeal, low maintenance requirements and long-term cost savings.

“Only certified ClosureTurf® installers are approved to install this system,” said Russell Jackson, Titan USA Principal. “Attending the certification course was crucial to proper installation.”

ClosureTurf® is owned and patented by Watershed Geosynthetics, and a site representative is required on site at every installation to ensure compliance with their license agreements. Russell was pleased with the installation citing that they covered approximately one acre a day in materials, which is quite an accomplishment



as the system is very detailed and installation must be precise to ensure final aesthetics. On top of ClosureTurf® installation certification, the field crew for this project had over 200 years of combined geosynthetics installation experience which made for a very smooth and efficient install. “Having a very experienced crew is key to our success as an installer,” stated Russell. “Titan USA adheres to high quality and service standards and our clients can rest assured that we will get the job done on time and on budget with a focus on workmanship.”

*For more information on ClosureTurf®, please contact Russell Jackson at [russell@titanenviro.com](mailto:russell@titanenviro.com).*



## Successful Completion of New Mexico Golf Course Pond

We are pleased to have successfully completed a one acre effluent pond lining project as part of golf course upgrades at Picacho Hills Country Club, in New Mexico. The project involved supply and installation of 40mil HDPE geomembrane and one penetration boot, with exterior extrusion weld to poly lock placed in concrete. Titan performed the work with a minimal crew in four working days.



## Multi-Layer Landfill Projects in Iowa and New York

Aside from the project in Minnesota, three other landfill projects kept the Titan USA crews buzzing this summer; one in Carroll County, Iowa; one in Rural County, Iowa; and the other in Hakes, New York.

The projects in Iowa were multi-layer geosynthetics projects where we supplied and installed 60 mil textured HDPE geomembrane (2-sided textured and smooth) as well as geocomposite and 12 oz. geotextile fabric as part of a multi-phase landfill cell expansion project. Titan USA also supplied and installed bootless pipe penetrations, built by GSE's fabrication shop, which alleviated concerns about field boot construction. The project in New York was also a multi-layer geosynthetics project involving ground water geocomposite, 60 mil HDPE geomembrane and cushion fabric. The work was done at a Casella Landfill for New Dominion General Contractor, and the project was completed timely and professionally.

## Texas Parks and Wildlife Chooses Titan USA

Titan USA is currently working on the demolition and replacement of geomembrane in 34 ponds at the CCA Marine Development Center (MDC) fish hatcheries in Corpus Christi, Texas. The project involves taking out the existing liner, and installing 1,900,000 sq. ft. of geosynthetics, including geogrid and unique tan color reinforced polypropylene geomembrane. The project is expected to be complete sometime in February.

The CCA Marine Development Center (MDC) in Corpus Christi is the mother hatchery of Texas's marine stock enhancement program. Built in 1982, it was the first full-scale production hatchery for red drum, which was the first marine fish species in Texas to be stocked in mass quantities. They have since expanded to include spotted seatrout in 1992 and, just four years ago, southern flounder.



## TE Fiberglass Geogrid USA Breakthrough

Our new generation TE-FGC 10 Fiberglass grid composite was successfully installed last month by the Wyoming Department of Transportation (WTDOT) for their highway project at I-25 & S Buffalo Interchange at Buffalo WY. This composite characteristic of TE-FGC 10 provides a continuous, non-deforming water resistant barrier in addition to the structural reinforcement of the asphalt. The fiberglass geogrid component is coated with a polymeric material which ensures strong adhesion to the asphalt layers over the tack-coated surface and makes a strong bond with the asphalt overlay. Our TE-FGC 10 fiberglass geogrid composite was laid over a leveling course that was placed over the existing concrete roadway.

This value added solution proved to be cost effective compared to the conventional solution. Long-term benefits include increasing pavement life cycle and reducing maintenance costs.

Sam Bhat (M.Eng), VP of Global Business Development & Chief Technical Officer of Geosynthetics says, "We developed our TE-FGP and TE-FGC bi-axial fiberglass geogrid series considering actual field installation and performance. It has undergone rigorous joint R & D activity with our manufacturing facility, and we have truly developed a state-of-the-art engineered geogrid that makes for easy & fast installation. We are thrilled to report that our products are generating a lot of interest from clients, engineers and contractors across North America and other international territories."

The Titan USA team is pleased with the geogrid project in Wyoming and looking forward to working on another pavement rehabilitation project at Semour City, Indiana, using our high-modulus, high-strength bi-axial fiberglass geogrids. Stay tuned!



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