What’s new and exciting at TERRAFIX Geosynthetics

As an industrial partner, we are pleased to announce that the Research study into the ‘Long-term performance of Geosynthetic Liner’ is well underway at the Geotextile Research Centre at Queen’s University. Work is proceeding well and the various projects funded by the NOLRC Strategic Grant, the Ontario Centers of Excellence (OCE) and NOLRC’s ‘Best in Science’ program.

This research project is being undertaken by the research teams at the Geotextile Research Centre at Queen’s University. Support from Terrafix and various other industrial partners has allowed the field site to grow from the originally proposed 109 m² to its current size of 5400 m². The site has been carefully instrumented and is already providing great data.

Did you know?

Barrier Systems for Waste Disposal facilities is available on-line. This book deals with the design of barrier systems which separate waste from the surrounding environment and which are intended to prevent contamina.tion of both ground and surface waters. The authors discuss all the aspects of barrier systems, including drainage, collection, natural barriers such as clay, collapsible rock, clay liners, impermeable clay liners, permeable and composite liners, providing a state-of-the-art work of reference of great value to engineers and environmentalists alike.

TERRAFIX Geosynthetics Inc. is holding a draw for this book the April 16th. If you wish to enter the draw please send your contribution to Brian@Terrafix.com.

Product Manager

Brian M. Forns is the Product Manager for Terrafix Canada. No job is too big or too small – Brian has been with Terrafix for seven years now and has been in the civil engineering industry for fifteen years since graduating from the University of Ottawa in 1998. Including an internship at Terrafix Environmental in 1992 during their busy summer term with the Regional Municipality of Ottawa-Carleton and the first composite liner installation done with a Geosynthetic Clay Liner at the Trail Landfill facility.

Brian is currently looking for interested engineers and/or engineers in training to join the Terrafix Hockey Team for the annual Boeing Professional Engineering Hockey Tournament in Sudbury. Interested in joining us for a weekend under the Big Nickel? Please contact Brian at brian@Terrafix.com.

TERRAFIX MINING CASE STUDY

Canada’s lead of complete geosynthetic solutions

TERRAFIX GEO CASE STUDY

Ministry of Natural Development and Mines

Kim Keel (Terrafix, Ontario)

PROJECT ENGINEERS

Worldwide Engineering & Tech Engineering

GENERAL CONTRACTOR

Waco Environmental Decontamination Services

CHALLENGE

During the fall of 2016, the Ontario Ministry of Northern Development and Mines (MNDM) approached Terrafix Geosynthetics to provide a liner system to contain a spill over the North Eastern Copper (NEC) site and at the abandoned Kim Rick Mine site in northwestern Ontario. The liner system installed provided the necessary control over the entry of water and vapours into the high sulphides tailings, substantially reducing odour generation, and contained heating effects that were affecting the lake. The high-temperature smoke and/or odour problem was greatly reduced through the use of a Terrafix Clay Liner (TCL) clay and polymer smoke seal.

SOLUTION

Terrafix TCLs - A Terrafix Clay Liner containing a semi-permeable polymer sheet that provides a vapour barrier and prevents odour generation. This product has been specifically designed to prevent odour generation under extremely high temperature conditions. Terrafix provides a complete range of products and polymer sheeting with unique high-tech properties and general performance that have been used to create new design approaches. The product includes a polymer sheet that is chemically bonded and sealed. The polymer sheeting is designed to withstand temperatures of over 100°C, and its semi-permeable properties minimise the risk of odour generation at high temperatures.

PRODUCT OVERVIEW

Construction of a semi-permeable, non-oven sheet that is impervious to odour generation and provides a vapour seal on the surface of the land. Construction of a semi-permeable, non-oven sheet that is impervious to odour generation and provides a vapour seal on the surface of the land. Construction of a semi-permeable, non-oven sheet that is impervious to odour generation and provides a vapour seal on the surface of the land. Construction of a semi-permeable, non-oven sheet that is impervious to odour generation and provides a vapour seal on the surface of the land. Construction of a semi-permeable, non-oven sheet that is impervious to odour generation and provides a vapour seal on the surface of the land.

PERMEABILITY FACTS

Typical Terrafix TCL (160-140) at 100°C.

Terrafix Geosynthetics Inc.

176 Bletchley Road

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Fax: (815) 674-1159

Visit Terrafix Geosynthetics online at www.Terrafix.com
Geotextiles
- Non-woven Geotextiles
- Woven Geotextiles
- High Strength Wovens
- Monofilament Wovens

Erosion Control
- Straw, Coconut, and Excelsior Blankets
- Coir Mats and Logs
- Turf Reinforcement Mats
- Tenawoo® Cellular Confinement System
- Gabion Baskets and Mats
- Armorflex® and A-Jacks®
- Fencing Products
- FlexiCrate™
- Grassy Rocks™
- SiltJacks® / Environbags
- Silt Curtains

Retained Soil Systems
- Mesa® / Area® Retaining Wall Systems
- SierraScape®
- SierraSlope®
- Dimension® Foundation Improvement Systems

Geogrids
- Uniaxial / Biaxial
- Spectra® / Prism® Systems
- Base Reinforcement

Lining Systems
- Bentofix® Thermal Lock Geosynthetic Clay Liner
- HDPE Geomembranes

Storm Water and Waste Systems
- Webolite HDPE Pipe
- Corrugated HDPE Pipe
- Subdrain Pipe and Fittings

And much, much more...
Geotextiles
- Non-woven Geotextiles
- Woven Geotextiles
- High Strength Woven
- Monofilament Woven

Erosion Control
- Straw, Coconut and Excellent Blankets
- Coir Mats and Logs
- Turf Reinforcement Mats
- Terraweed® Cellular Confinement System
- Gabion Baskets and Mats
- Armorflex® and A-Jacks®
- Fencing Products
- FlexiCrate®
- Geotextile Paper
- SiltJackets®/ Envirocargo
- Silt Curtains

Retention Soil Systems
- Mesa®/ Aera® Retaining Wall Systems
- SierraScape®
- SierraSlope®
- Dimension® Foundation Improvement Systems

Geogrids
- Uniaxial/Biaxial
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- HDPE Geomembranes

Storm Water and Waste Systems
- Weholite HDPE Pipe
- Corrugated HDPE Pipe
- Subrain Pipe and Fittings

And much, much more...
At Terrafix, we provide powerful new technologies in geosynthetic products and services for construction and environmental applications. These new technologies can save you installation time and money— and we can prove it!

Terrafix offers a turnkey approach to tackling your environmental problems. From engineering to construction, our team of professionals are committed to providing the most advanced engineering solutions to today’s environmental challenges.

We have technical experts available every day to answer your technical questions and to give you engineering solutions in which you can have confidence.

Because we carry the complete line of geosynthetic products you can count on us to have inventory available when you need it. And, many of our products can be custom cut to fabrication to fit the requirements of your project, which will save you labour costs, installation time and unexpected expenses. Ask us about it!

Terrafix has been in business over 30 years. We have a track record of success and reliability. You can be certain that we will be here when you need us.

Call on Terrafix for all your geosynthetic product or service applications.

Did you know?

Barrier Systems for Waste Operations—Terrafix is a market leader in the field of geosynthetics. This book deals with the design of barrier systems which separate waste from the surrounding environment and which are intended to prevent contamination of both groundwater and surface water. The authors discuss all the aspects of the design of barrier systems, including backfill, collection, natural barriers such as clayey aquifers, clayey clay, geomembranes and composite tarps, providing a state-of-the-art work of reference of great value to engineers and environmental professionals.

Terrafix Geosynthetics Inc. is holding a drawing for this book this April 10th. Should you wish to enter the drawing please send your contributions to Bob Hotchkiss, P.E., Terrafix Geosynthetics Inc.

Product Manager

Bruce Irvine, P.Eng is the Product Manager for Terrafix Canada. No job is too big or too small. Bruce was born with Terrafix for seven years now and has been in the mining industry for fifteen years since graduating from the University of Ottawa in 1991 including an apprenticeship to Terrafix Environmental Inc. in 1992 during a co-op work term with the Regional Municipality of Ottawa-Carleton and the first composite liner installation done with a Geosynthetic Clay Liner at the Trail Landfill Facility.

Bruce is currently looking for interested engineers and/or engineers in training to join the Terrafix Hardy team for the annual Ontario Professional Engineering Hockey Tournament in Sudbury. Interested in joining us for a weekend under the Big Nickel? Please contact Bruce at brooke@terrafix.com.

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