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January 16, 2017

Mr. Bill Smith, PE, Manager Oil & Gas Engineering
TETRA TECH, INC.
661 Anderson Drive
Pittsburgh, PA 15220

RE: PR17014 SUNOCO BLOCK VALVES
Geoweb Load Support System

Dear Bill:

Per our telephone conversations, the following is in regard to utilizing Geoweb for load support and to support a final, vegetated surface that will allow infiltration.

The installation procedure for this project will consist of scarifying the sub grade to provide a smooth surface without the use of compaction equipment. This procedure is acceptable and is preferred when infiltration and vegetation is desired. The high strength woven geotextile will be placed over the scarified surface then followed with Geoweb panels infilled with 2/3 AASTO #57 and 1/3 topsoil mixture. This mixture is recommended when using Geoweb for load support with a vegetated surface. The woven geotextile and Geoweb will work together to distribute the load while still allowing infiltration into the sub grade. The Geoweb cells prevent the infill from “overcompacting” while under load and the infill material will allow infiltration. The woven geotextile has a high flow rate and will allow water to pass freely in both directions and pore pressure build up below the geotextile will not be an issue.

Geoweb placed on a flat surface will not require any anchorage. Geoweb placed on sloped sub grades exceeding 5% (3°) should be secured in place with 24-inch ATRA anchors in a 3 x 8 cell pattern (cells 1, 4 & 7 across the panel and every 8th row downslope).

If you have any questions or need any additional information, please call.

Sincerely,

Bryan Wedin

Bryan Wedin, P.E.
Chief Design Engineer
Presto Geosystems

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WINFAB INDUSTRIAL FABRICS

PRODUCT DATA SHEET

WINFAB 270HP

SEPARATION FILTRATION REINFORCEMENT

WINFAB 270HP is manufactured using high tenacity polypropylene yarns that are woven to form a dimensionally stable network, which allows the yarns to maintain their relative position.
WINFAB 270HP resists ultraviolet deterioration, rotting, and biological degradation and is inert to commonly encountered soil chemicals.

PROPERTY	TEST METHOD	MARV English	MARV Metric
Wide Width Tensile	ASTM D-4595	2640 x 2460 lbs/ft	38.5 x 35.9 kN/m
Wide Width Tensile (2% Strain)	ASTM D-4595	480 x 588 lbs/ft	7.0 x 8.6 kN/m
Wide Width Tensile (5% Strain)	ASTM D-4595	1212 x 1356 lbs/ft	17.7 x 19.8 kN/m
Wide Width Tensile (10% Strain)	ASTM D-4595	2340 x 2412 lbs/ft	34.1 x 35.2 kN/m
UV Resistance (500 hrs)	ASTM D-4355	80%	80%
Apparent Opening Size (AOS)*	ASTM D-4751	30 US Std. Sieve	0.60 mm
Permittivity	ASTM D-4491	.70 sec $^{-1}$	.70 sec $^{-1}$
Permeability	ASTM D-4491	.04 cm/sec	.04 cm/sec
Water Flow Rate	ASTM D-4491	50 gpm/ft²	2037 lpm/m²

***Maximum Average Roll Valve**

Notes:
- Mullen Burst ASTM D-3786 has been removed. It is not recognized by ASTM D-35 on Geosynthetics.
- Puncture ASTM D-4833 has been removed. It is not recognized by AASHTO M288 and has been replaced with CBR Puncture ASTM D-6241

PROPERTY	Typical English	Typical Metric
Roll Dimensions	15 x 300 ft	4.6 x 91.5 m
Roll Area	500 yd^2	418 m^2

Willacoochee Industrial Fabrics, Inc.
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GMA Geosynthetic Materials Association