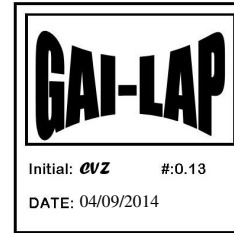




April 9, 2014

Allan Brantley
Brantley Engineering, LLC.
13933 Tree Loft Road
Milton, GA 30004



Re: FINAL LABORATORY TEST REPORT

Dear Mr. Brantley:

Thank you for consulting TRI California for your material testing needs.

Enclosed is the **final** laboratory report for the conformance testing of three (3) Bentomat ST GCL samples.

PROJECT NAME: Jed Cell 10

DATE REPORTED: April 9, 2014

REFERENCE TRI JOB NO.: G140207

DATE RECEIVED: March 11, 2014

SAMPLES SENT BY: Brantley Engineering, LLC.

SAMPLE IDENTIFICATIONS:

SAMPLE ID

1. R#565 L#201409LO
2. R#653 L#201409LO
3. R#741 L#201409LO

TRI CONTROL NUMBER

- 96770
96771
96772

TESTS REQUIRED / PERFORMED:

TEST METHOD

1. ASTM D5887
2. ASTM D5084

DESCRIPTION

- Index Flux
Hydraulic Conductivity

TEST RESULTS: The test results are summarized in the attached Tables 1 to 3.

Respectfully,

TRI Environmental, Inc. - California

Maria Espitia
Quality Assurance

Carmelo V. Zantua
Technical Director

Signatures are on file

It shall be noted that the samples tested are believed to be true representatives of the material produced under the designation herein stated. In addition, the attached laboratory tests results are considered indicative only of the quality of samples/specimens that were actually tested. The appropriate test methods hereby employed are based on the current and accepted industry practices. TRI neither accepts responsibility for nor makes claims to the intended final use and purpose of the material. The test data and all associated project information shall be held confidential and not to be reproduced and/or disclosed to other parties except in full and with prior written approval from pertinent entity duly authorized by the respective client or from the client itself. It is our policy to keep physical records of each job for two (2) years commencing from the date of receipt of the samples and keep its corresponding electronic file for seven (7) years. **Retained conformance samples are disposed of after one (1) month.** On the other hand, should you need us to keep them at a longer period, please advise us in writing.

4 Pages Total



TABLE 1.
MATERIAL PROPERTIES
CLIENT: Brantley Engineering, LLC
PROJECT: Jed Cell 10

Date Received: **3/11/2014**
Date Reported: **4/9/2014**
Client Sample ID: **R#565 L#201409LO**
Material Description: **Bentomat ST GCL**

QC'd By: Maria Espitia
TRI Job No.: **G140207**
TRI Control No.: **96670**

SPECIMENS											Avg.	Std. Dev.	Min	Max	Proj. Specs.
1	2	3	4	5	6	7	8	9	10						
METHOD	DESCRIPTION														
ASTM D5084	Hydraulic Conductivity (cm./ sec.) <i>Effective Consolidation Stress: 5 psi</i>														
	2.9E-09										2.9E-09	N/A			5X10 ⁻⁹ max.
ASTM D5887	Index Flux (m. ³ / m. ² /sec.) <i>Confining Pressure: 5 psi</i>														
	3.5E-09										3.5E-09	N/A			

(End of Table 1)

(Sheet 1 of 1)

By accepting the data and results presented on this report, the Client agrees to limit the liability of TRI Environmental, Inc from Client and all other parties for claims on issues, due to the use of this data, to the cost for the respective tests presented in this report; and the Client agrees to indemnify and hold harmless TRI Environmental, Inc from and against all liabilities in excess of the aforementioned limit.

LEGENDS:
MD- MACHINE DIRECTION
TD- TRANSVERSE DIRECTION

1160 North Gilbert Street, Anaheim, CA 92801, www.precisionlabs.net
Precision Geosynthetic Laboratories International dba TRI Environmental, Inc.



TABLE 2.
MATERIAL PROPERTIES
CLIENT: Brantley Engineering, LLC
PROJECT: Jed Cell 10

Date Received: **3/11/2014**Date Reported: **4/9/2014**Client Sample ID: **R#653 L#201409LO**Material Description: **Bentomat ST GCL**QC'd By: Maria EspitiaTRI Job No.: **G140207**TRI Control No.: **96671**

SPECIMENS											Avg.	Std. Dev.	Min	Max	Proj. Specs.
1	2	3	4	5	6	7	8	9	10						
METHOD	DESCRIPTION														
ASTM D5084	Hydraulic Conductivity (cm./ sec.) Effective Consolidation Stress: 5 psi														
	3.0E-09										3.0E-09	N/A			5X10 ⁻⁹ max.
ASTM D5887	Index Flux (m. ³ / m. ² /sec.) Confining Pressure: 5 psi														
	3.7E-09										3.7E-09	N/A			

(End of Table 2)

(Sheet 1 of 1)

By accepting the data and results presented on this report, the Client agrees to limit the liability of TRI Environmental, Inc from Client and all other parties for claims on issues, due to the use of this data, to the cost for the respective tests presented in this report; and the Client agrees to indemnify and hold harmless TRI Environmental, Inc from and against all liabilities in excess of the aforementioned limit.

LEGENDS:

MD- MACHINE DIRECTION

TD- TRANSVERSE DIRECTION

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Precision Geosynthetic Laboratories International dba TRI Environmental, Inc.



TABLE 3.
MATERIAL PROPERTIES
CLIENT: Brantley Engineering, LLC
PROJECT: Jed Cell 10

Date Received: **3/11/2014**Date Reported: **4/9/2014**Client Sample ID: **R#741 L#201409LO**Material Description: **Bentomat ST GCL**QC'd By: Maria EspitiaTRI Job No.: **G140207**TRI Control No.: **96672**

SPECIMENS											Avg.	Std. Dev.	Min	Max	Proj. Specs.
1	2	3	4	5	6	7	8	9	10						
METHOD	DESCRIPTION														
ASTM D5084	Hydraulic Conductivity (cm./ sec.) Effective Consolidation Stress: 5 psi														
	2.9E-09										2.9E-09	N/A			5X10 ⁻⁹ max.
ASTM D5887	Index Flux (m. ³ / m. ² /sec.) Confining Pressure: 5 psi														
	3.5E-09										3.5E-09	N/A			

(End of Table 3)

(Sheet 1 of 1)

By accepting the data and results presented on this report, the Client agrees to limit the liability of TRI Environmental, Inc from Client and all other parties for claims on issues, due to the use of this data, to the cost for the respective tests presented in this report; and the Client agrees to indemnify and hold harmless TRI Environmental, Inc from and against all liabilities in excess of the aforementioned limit.

LEGENDS:

MD- MACHINE DIRECTION

TD- TRANSVERSE DIRECTION

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