TABLE 4.

MATERIAL PROPERTIES

CLIENT: Pollution Solution Inc.

PROJECT: Geotextile Testing

Date Received: **11/25/2015**
Date Reported: **12/7/2015**
Client Sample ID: **SST**
Material Description: **Silt Sifter Tube**

QC'd By: Maria Espitia
TRI Job No.: **R15048**
TRI Control No.: **00844**

METHOD	DESCRIPTION	SPECIMENS 1	2	3	4	5	6	7	8	9	10	Avg.	Std. Dev.	Min	Max	Proj. Specs.
ASTM D5261	Mass per Unit Area (oz/ yd.^{2})															
	Test Specimen Size: 4" x 8"															
		6.19	**6.34**	**6.25**	**6.42**	**6.38**						**6.32**	**0.09**	**6.19**	**6.42**	
ASTM D4632	Grab Tensile															
	Test was performed as directed in D4632, dry condition. Instron Tensile Testing Machine with hydraulic action grips and 1 in x 2 in rubber faces was used. Maximum load used for testing: 400 lbs															
	Grab Breaking Load (lbs)															
	Direction A	**158**	**161**									**159**	**2**	**158**	**161**	
	Direction B	**108**	**109**									**108**	**1**	**108**	**109**	
	Apparent Breaking Elongation (percent)															
	Direction A	**72**	**67**									**70**	**4**	**67**	**72**	
	Direction B	**91**	**89**									**90**	**1**	**89**	**91**	
ASTM D4533	Trapezoid Tear Strength (lbs)															
	Specimens were tested as directed in Test Method D4533, dry condition.															
	Direction A	**67**	**70**									**69**	**2**	**67**	**70**	
	Direction B	**55**	**58**									**57**	**2**	**55**	**58**	
ASTM D4491	Permittivity (sec.$^{-1}$)															
Constant Head	*Four specimens were tested by holding the head constant at 50 mm. The corresponding water volume passing through the specimen was collected at the discharge side and the amount and time recorded. Five readings were taken for each specimen. BT Technology permittivity testing apparatus compliant to ASTM D4491 requirements was used.*															
		1.57	**1.60**	**1.56**	**1.61**							**1.59**	**0.02**	**1.56**	**1.61**	
	Permeability (cm./ sec.)															
		0.20	**0.20**	**0.21**	**0.21**							**0.21**	**0.01**	**0.20**	**0.21**	
	Flow Rate (gpm/ ft.^{2})															
		118	**120**	**117**	**121**							**119**	**2**	**117**	**121**	

Continued on next page

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Precision Geosynthetic Laboratories International dba TRI Environmental, Inc.

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		SPECIMENS														Proj.
		1	2	3	4	5	6	7	8	9	10	Avg.	Std. Dev.	Min	Max	Specs.
METHOD	**DESCRIPTION**															
ASTM D6241	Static Puncture Strength (lbs)															
	The specimens were tested in accordance with ASTM D6241. Specimens were conditioned for 1 hr in the laboratory at 21+/-5° C (75+/-3.6oF) and at 60%+/-10 Relative Humidity. Specimens were secured between the holding plates ensuring that they extended to or beyond the outer edges of the clamping plates.															
		458	**513**									**486**	**39**	**458**	**513**	
	Deflection @ Maximum Force (in)															
		2.5	**2.6**									**2.6**	**0.1**	**2.5**	**2.6**	

(End of Table 4)