

**TABLE 6.**  
**MATERIAL PROPERTIES**  
**CLIENT: Pollution Solution Inc.**  
**PROJECT: Geotextile Testing**

Date Received: **11/25/2015**  
 Date Reported: **12/7/2015**  
 Client Sample ID: **DWB46**  
 Material Description: **D-Watering Bag 4'x6' (Applies to all D-Watering Bag sizes)**

QC'd By: *Maria Espitia*  
 TRI Job No.: **R15048**  
 TRI Control No.: **00846**

		SPECIMENS										Avg.	Std. Dev.	Min	Max	Proj. Specs.				
		1	2	3	4	5	6	7	8	9	10									
<b>METHOD</b>	<b>DESCRIPTION</b>																			
ASTM D5261	Mass per Unit Area (oz/ yd. <sup>2</sup> ) <i>Test Specimen Size: 4" x 8"</i>	8.21	8.11	8.21	8.25	8.42										8.24	0.11	8.11	8.42	
ASTM D4632	Grab Tensile <i>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</i>																			
	Grab Breaking Load (lbs)																			
	Direction A	245	250	249	253										249	3	245	253		
	Direction B	301	298	317	388										326	42	298	388		
	Apparent Breaking Elongation (percent)																			
	Direction A	80	87	86	85										85	3	80	87		
	Direction B	103	100	106	110										105	4	100	110		
ASTM D4533	Trapezoid Tear Strength (lbs) <i>Specimens were tested as directed in Test Method D4533, dry condition.</i>																			
	Direction A	104	106	103	108										105	2	103	108		
	Direction B	123	119	126	130										125	5	119	130		
ASTM D4491	Permittivity (sec. <sup>-1</sup> )																			
Constant Head	<i>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.</i>																			
		1.53	1.45	1.57	1.55										1.53	0.05	1.45	1.57		
	Permeability (cm./ sec.)																			
		0.23	0.23	0.23	0.24										0.23	0.00	0.23	0.24		
	Flow Rate (gpm/ ft. <sup>2</sup> )																			
		114	109	118	116										114	4	109	118		

Continued on next page

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		1	2	3	4	5	6	7	8	9	10	Avg.	Std. Dev.	Min	Max	Proj. Specs.
<b>METHOD</b>	<b>DESCRIPTION</b>															
ASTM D4751	Apparent Opening Size (U.S. standard sieve size) <i>Specimens were tested as directed in Test Method D4751. Type of sieve shaker used is W.S. Tyler Rotap.</i>															
	<b>70-100 70-100</b>											<b>70-100</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	
ASTM D4751	Apparent Opening Size (mm) <i>Specimens were tested as directed in Test Method D4751. Type of sieve shaker used is W.S. Tyler Rotap.</i>															
	<b>0.198 0.204</b>											<b>0.201</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	
ASTM D6241	Static Puncture Strength (lbs) <i>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.</i>															
	<b>746 717 686 693</b>											<b>711</b>	<b>27</b>	<b>686</b>	<b>746</b>	
	Deflection @ Maximum Force (in)															
	<b>2.1 2.1 2.1 2.1</b>											<b>2.1</b>	<b>0.0</b>	<b>2.1</b>	<b>2.1</b>	

(End of Table 6)

(Sheet 2 of 2)

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.