



\*\*ASTM F1647 Method A

Carolina Stalite Company Chuck Friedrich P.O. Box 1037 Salisbury, NC 28145 Date received Aug-28-2017

Date Reported Sep-07-2017

Facility NC DEQ

## Particle Size Evaluation\*

							% Retained mm (US sieve)				
Lab ID#	Sample Name	% Sand 2.0 - 0.05 mm	% Silt 0.05-0.002mm	% Clay < 0.002mm	Gravel 4.0 (5)	Gravel 2.0 (10)	V. Coarse 1.0 (18)	Coarse 0.50 (35)	Medium 0.25 (60)	Fine 0.10 (140)	V. Fine 0.05 (270)
17080117-1	MDC 6 Bioretention Media	85.0	14.0	< 1.0	0.2	8.7	28.3	24.3	15.3	11.2	6.2

Lab ID#	Sample Name	USDA Textural Classification	Uniformity Coefficient Cu	D50 mm	Acid Reaction	Combined Fractions < 0.25 mm	No. 100 Fines 0.15 (100)	% Organic Matter Dry Wt.**
17080117-1	MDC 6 Bioretention Media	Loamy Sand	40.3	0.62	Slight	32.0	7.1	2.93

<sup>\*</sup>ASTM F1632 Method B & Determination of Size Factors SOP

Samples were tested as received and comments pertain only to the samples shown.

This report may not be reproduced in part, but only in full.

Sample condition upon receipt was normal.

Samples were received with a transmittal letter.

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## **Infiltration Rate**

Lab ID#	Sample Name	Infiltration Rate* in/hr	Infiltration Rate* cm/hr	Bulk Density g/cc	Organic Matter % Dry Wt. <sup>‡</sup>
17080117-1	MDC 6 Bioretention Media	21.7	55.0	0.97	2.93

<sup>\*</sup>TSD Infiltration Rate SOP <sup>‡</sup> ASTM F1647 Method A

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Reviewed by Sam Ferro

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Facility NCDEQ

## **Water Release Characterization**

g/cc	g/cc	%
2.17	1.04	52.1
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	М	DC6 Bioretention Me	edia			
Tension (cm)	Capillary Porosity	Non-Capillary Porosity	Degree of Saturation	Capillary Porosity	Non-Capillary Porosity	Degree of Saturation
	%	%	%	%	%	%
0	42.0	0.0	100.0			
30	22.7	29.4	43.6			
75	16.3	35.8	31.2			
150	14.0	38.1	26.8			

A2LA Testing Certificate Number 797-01

TSD Developed SOP

\*SSSA, Methods of Soil Analysis

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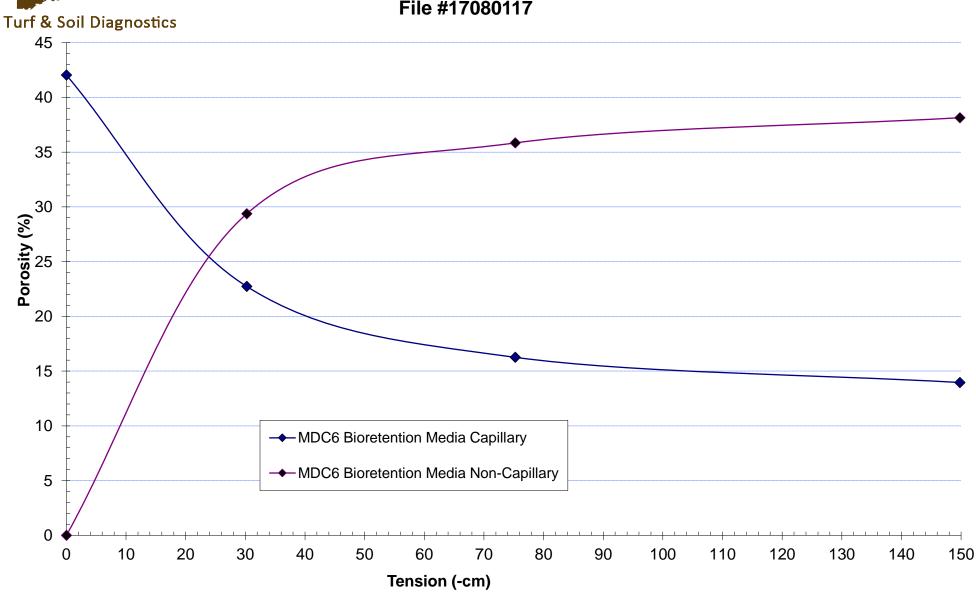
Sample condition upon receipt was normal.

Samples were received with a transmittal letter.

Reviewed by \_\_\_\_\_ Lam Leno



## Carolina Stalite NCDEQ Water Release Curve File #17080117



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