



Client:	Carolina Stalite Company		
Project Name:	---		
Project Location:	---		
GTX #:	1678		
Start Date:	6/3/2011	Tested By:	jm
End Date:	6/6/2011	Checked By:	MCM
Location:	---	Test #:	K2.1
Sample #:	M16		
Depth:	---		
Visual Description:	Black light weight aggregate		

Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter by ASTM D 5084 Increasing Tailwater

Sample Type:	Remolded	Permeant Fluid:	de-aired tap water																											
Orientation:	Vertical	Cell #:	1A																											
Sample Preparation:																														
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B COEFFICIENT DETERMINATION

Cell Pressure, psi:	65	Pressure Increment, psi:	4.90
Sample Pressure, psi:	60	B Coefficient:	0.98

FLOW DATA

Date	Trial #	Pressure, psi		Head readings			Elapsed Time, sec	Gradient	Permeability K, cm/sec	Temp, °C	R _t	Permeability K @ 20 °C, cm/sec
		Cell	Sample	H ₁	H ₂	H ₁ /H ₂						
3/9	1	65	60	42.3	34.1	8.2	5	4.8	8.1E-04	22	0.953	7.8E-04
3/9	2	65	60	34.1	28.1	6.0	5	3.8	7.3E-04	22	0.953	7.0E-04
3/9	3	65	60	28.1	23.1	5.0	5	3.2	7.4E-04	22	0.953	7.1E-04
3/9	4	65	60	23.1	19.2	3.9	5	2.6	7.0E-04	22	0.953	6.7E-04
3/9	5	65	60	19.2	16.2	3.0	5	2.2	6.4E-04	22	0.953	6.1E-04

PERMEABILITY AT 20° C: 7.2 x 10⁻⁴ cm/sec (@ 5 psi effective stress)