




# TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD

DATE ISSUED: 08/11/2022

<b>Contract</b>	<b>Marriage 1</b>
<b>Serial No.</b>	<b>41637_1</b>
<b>Client:</b> John Bailey  Gable House 30 Puddingmoor Beccles Suffolk NR34 9PL	<b>Soil Property Testing Ltd</b>  15, 16, 18 Halcyon Court, St Margaret's Way, Stukeley Meadows, Huntingdon, Cambridgeshire, PE29 6DG  Tel: 01480 455579 Email: <a href="mailto:enquiries@soilpropertytesting.com">enquiries@soilpropertytesting.com</a> Website: <a href="http://www.soilpropertytesting.com">www.soilpropertytesting.com</a>
<b>Samples Submitted By:</b> John Bailey  <b>Samples Labelled:</b> Marriage 1	<b>Approved Signatories:</b>  <input checked="" type="checkbox"/> <b>J.C. Garner B.Eng (Hons) FGS</b> Technical Director & Quality Manager  <input type="checkbox"/> <b>W. Johnstone</b> Materials Lab Manager  
<b>Date Received:</b> 21/10/2022	<b>Samples Tested Between:</b> 21/10/2022 and 08/11/2022
<b>Remarks:</b> For the attention of John Bailey	
<b>Notes:</b> 1 All remaining samples or remnants from this contract will be disposed of after 21 days from today, unless we are notified to the contrary. 2 This test report may not be reproduced other than in full except with the prior written approval of the issuing laboratory. 3 The results within this report only relate to the items tested or sampled.	



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<b>Contract</b>		<b>Marriage 1</b>			
<b>Serial No.</b>		<b>41637_1</b>		<b>Target Date</b>	<b>04/11/2022</b>
<b>Scheduled By</b>		<b>John Bailey</b>			
<b>Schedule Remarks</b>					
<b>Bore Hole No.</b>	<b>Type</b>	<b>Sample Ref.</b>	<b>Top Depth</b>	<b>Triaxial Permeability</b>	<b>Sample Remarks</b>
-	D	1	1		
<b>Totals</b>			1		<b>End of Schedule</b>



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**DETERMINATION OF PERMEABILITY IN A TRIAXIAL CELL**  
Using the Accelerated Permeability Test  
EA-P1-398/TR/1

BH / TP	Depth (m)	Type	Ref.	Description	Remarks
-		D	1	Very stiff brownish yellow slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium chalk	

Sample Details	
Type of Sample	Recompacted

Flow Conditions	
Direction	Vertical Downwards

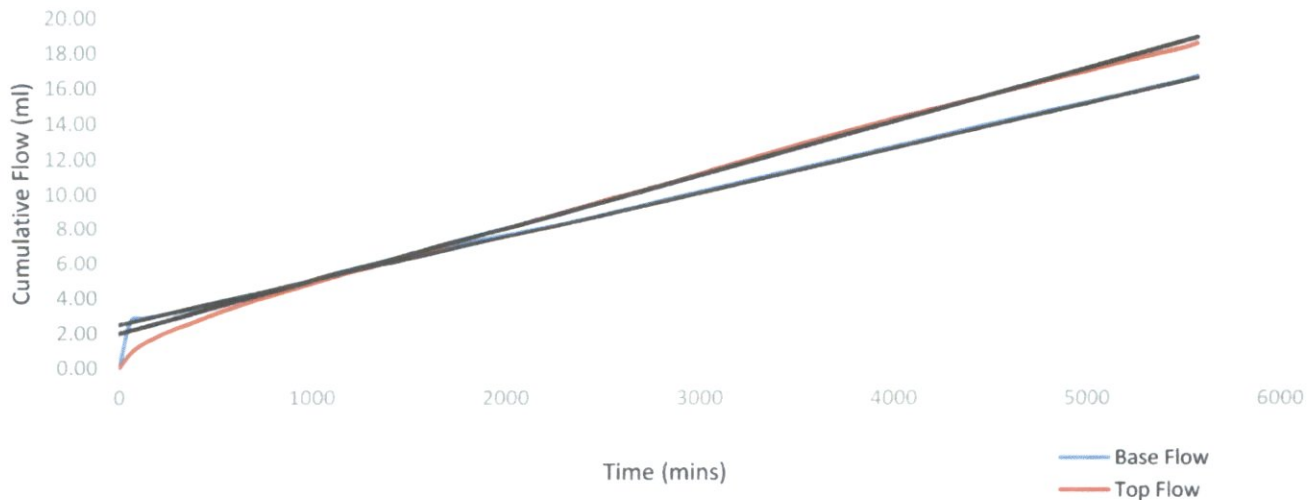
Test Specimen Details		Initial	Final
Mass of Sample	g	1333.8	1339.2
Diameter	mm	104.70	104.67
Area	mm <sup>2</sup>	8609.9	8606.3
Length	mm	73.36	72.82
Bulk Density	Mg/m <sup>3</sup>	2.11	2.14
Water Content	%	16.8	17.4
Dry Density	Mg/m <sup>3</sup>	1.81	1.82

Permeability Stage		
Test Temperature	°C	20.5
Mean Effective Stress	kPa	187.5
Cell Pressure	kPa	550
Top Drain Pressure	kPa	425
Base Drain Pressure	kPa	300
Differential Pressure	kPa	125
Rate of Flow (q)	mL/min	0.003

Test Duration	
Cell Pressure Test	1
Flow	1

Test Result		
<b>Permeability (kv)</b>	<b>m/s</b>	<b>3.3x10<sup>-11</sup></b>

Permeability Rate of Flow Chart



Method of Preparation: BS1377: PART1: 1990: 8.2  
 Method of Test: EA-P1-398/TR/1  
 Type of sample key: U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter  
 Comments: \*Procedure for the Determination of the Permeability of Clayey Soils in a Triaxial Cell Using the Accelerated Permeability Test - R&D Technical Report P1-398/TR/1 - Dr E J Murray.