

Enviroarm Ltd.
597 Walsall Road,
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Staffs.
WS6 6AE

For the attention of Mr. Andy Morris

Report No: C7795

Issue No 02

LABORATORY TEST REPORT

Project Name	CHADWICH LANE QUARRY		
Project Number	C7795	Date samples received	20/09/2022
Your Ref		Date written instructions received	20/09/2022
Purchase Order		Date testing commenced	21/09/2022
Please find enclosed the results as summarised below			
Item No	Test Quantity	Description	ISO 17025 Accredited
6.31	2	Triaxial permeability	Yes
Remarks :			
Issued by :	J Hopkins	Date of Issue :	05/10/2022
Approved Signatories :	 05/10/2022	Key to symbols used in this report S/C : Testing was sub-contracted	
J.Hopkins (Laboratory Coordinator), M.D Brown (Senior Quality Manager), R Norris (Supervisor)			
<p>Unless we are notified to the contrary, samples will be disposed after a period of one month from this date. The results reported relate to samples received in the laboratory only. All results contained in this report are provisional unless signed by an approved signatory This report should not be reproduced except in full without the written approval of the laboratory. Under multisite accreditation the testing contained in this report may have been performed at another Terra Tek laboratory.</p> <p>Only those results indicated in this report are UKAS accredited and any opinions or interpretations expressed are outside the scope of UKAS accreditation.</p> <p>Feedback on the this report may be left via our website terratek.co.uk/feedback</p>			



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SITE INVESTIGATION AND LABORATORY SERVICES

Site	CHADWICH LANE QUARRY	Contract No.	C7795
Client	Enviroarm Ltd	Hole ID	14/09/2022
Engineer	-	Sample	P 1.1
		Sample Type	CC

Description: Stiff intact reddish brown sandy CLAY/SILT.

Sample Details:	Initial:	Final:
Diameter:	101.6 mm	100.4 mm
Height:	98.3 mm	97.1 mm
Moisture content:	19.4 %	19.8 %
Bulk density:	2.04 Mg/m ³	2.12 Mg/m ³
Dry density:	1.71 Mg/m ³	1.77 Mg/m ³
Sample condition:	Undisturbed	

Saturation Stage: (Saturation by increments of cell pressure and back pressure)

Initial pore pressure coefficient, B:	0.57
Final pore pressure coefficient, B:	0.99
Duration of stage:	4 days

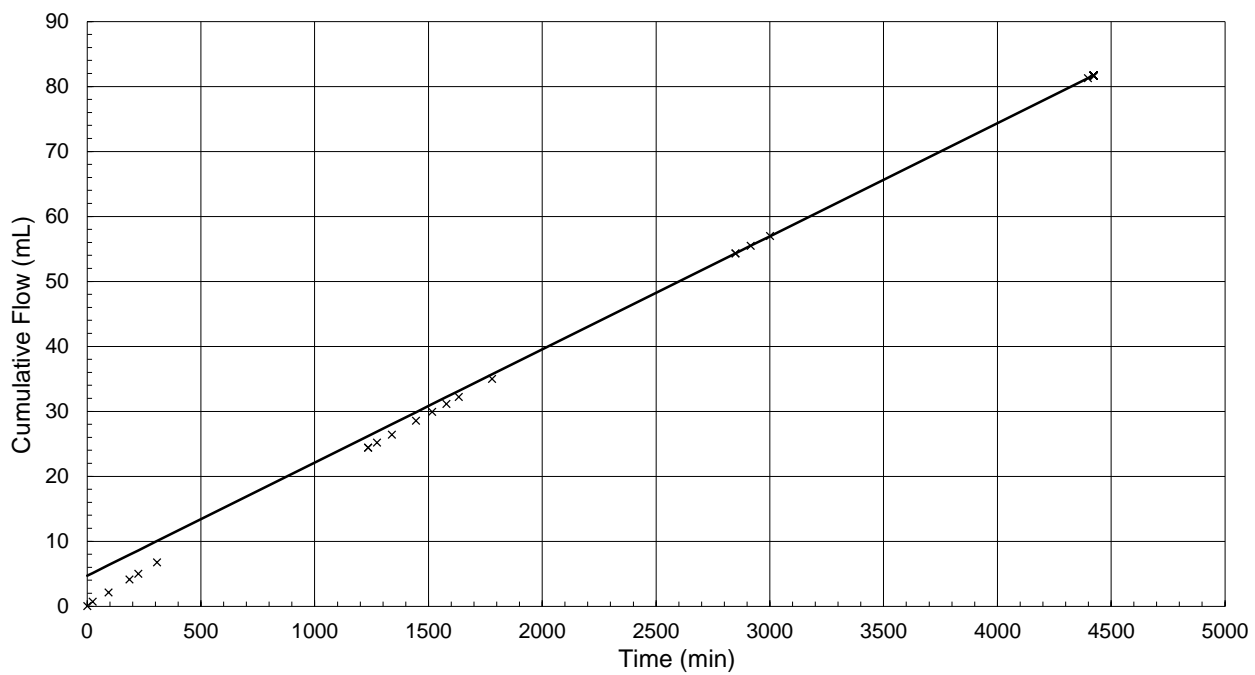
Consolidation stage:

Drainage condition:	Double end drainage
Effective pressure:	100 kPa
Duration of stage:	1 day

Permeability stage:

Pressure difference across specimen:	20 kPa
Mean effective stress:	100 kPa
Duration of stage:	2 days

Coefficient of permeability at 20°C, $K_v: 1.8 \times 10^{-9}$ m/s



Originator	Checked & Approved	PERMEABILITY IN A TRIAXIAL CELL BS1377 : Part 6 : Clause 6 : 1990 Permeability under constant head conditions in a triaxial cell	
MAB	<i>Jan</i> 05/10/2022		

Site	CHADWICH LANE QUARRY	Contract No.	C7795
Client	Enviroarm Ltd	Hole ID	14/09/2022
Engineer	-	Sample	P 1.2
		Sample Type	CC

Description: Stiff intact reddish brown sandy CLAY.

Sample Details:	Initial:	Final:
Diameter:	101.7 mm	100.4 mm
Height:	98.5 mm	97.3 mm
Moisture content:	17.3 %	20.1 %
Bulk density:	1.98 Mg/m ³	2.11 Mg/m ³
Dry density:	1.69 Mg/m ³	1.75 Mg/m ³
Sample condition:	Undisturbed	

Saturation Stage: (Saturation by increments of cell pressure and back pressure)

Initial pore pressure coefficient, B:	0.42
Final pore pressure coefficient, B:	0.99
Duration of stage:	6 days

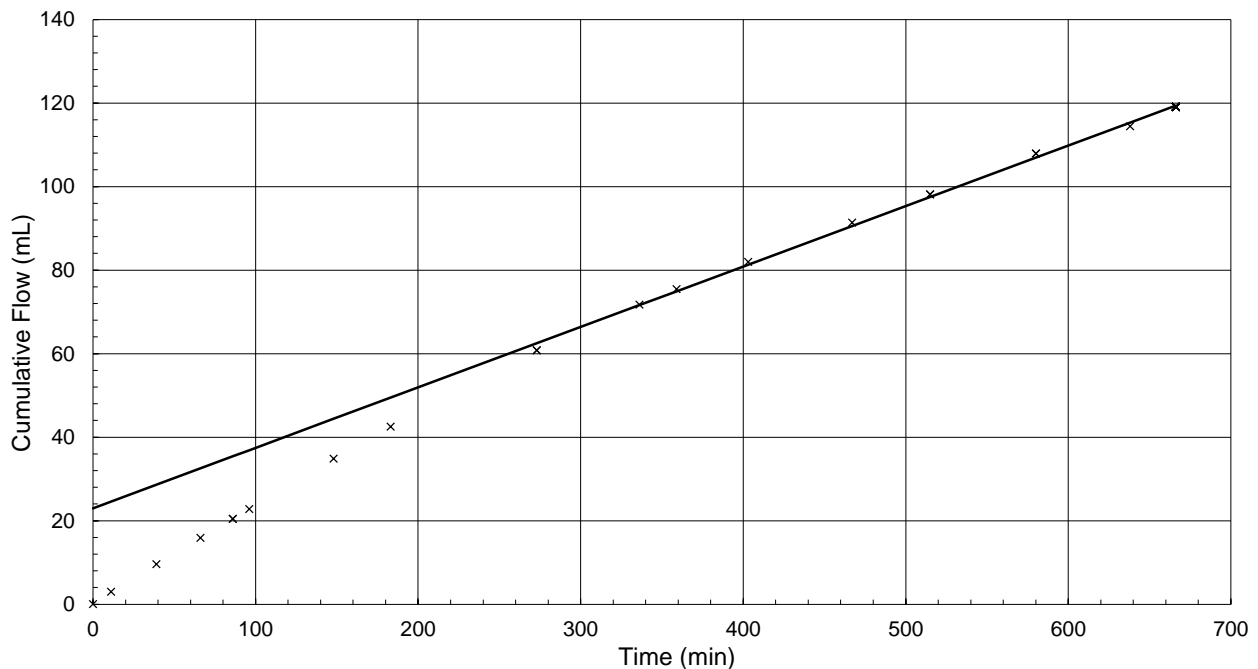
Consolidation stage:

Drainage condition:	Double end drainage
Effective pressure:	100 kPa
Duration of stage:	1 day

Permeability stage:

Pressure difference across specimen:	20 kPa
Mean effective stress:	100 kPa
Duration of stage:	2 days

Coefficient of permeability at 20°C, $K_v: 1.5 \times 10^{-8}$ m/s



Originator	Checked & Approved
MAB	<i>[Signature]</i> 05/10/2022

PERMEABILITY IN A TRIAXIAL CELL
 BS1377 : Part 6 : Clause 6 : 1990
 Permeability under constant head conditions in a triaxial cell