

# Transmittal Note

<b>Job No:</b>	9362	<b>Date Received:</b>	22/09/17
<b>Job Name:</b>	Plots 1-5 Flowers Bloom Berrow	<b>Date Sent:</b>	25/10/17
<b>Client Name:</b>	Internal Job	<b>Transmittal Number:</b>	T2547
<b>Client Job No:</b>	-	<b>Senders Initials:</b>	NWW
<b>Client Address</b>	For client address details, please refer to the final report.		

Test Detail	No. of Tests / Report No.
<b>BS1377: Part 2: 1990: Clause 3 - Moisture Content - UKAS Accredited</b>	<b>6</b>
<b>BS1377: Part 2: 1990: Clause 4 &amp; 5 - Atterberg Limits - UKAS Accredited</b>	<b>6</b>
<b>BS1377: Part 2: 1990: Clause 9.2 / 9.3 - Particle Size Distribution - UKAS Accredited</b>	<b>4</b>
<b>BS1377: Part 7: 1990: Clause 8 - Quick Undrained Triaxial Test (Single Stage) - UKAS Accredited</b>	<b>3</b>
<b>BS1377: Part 5: 1990: Clause 3 - One-dimensional Consolidation Properties - UKAS Accredited</b>	<b>4</b>

**Approved Signatories:**  
**Nick Worthington-Williams (Quality Manager), Dan Ayre (Deputy Quality Manager)**  
**Marc Davis (Laboratory Manager)**



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# Summary of Classification Test Results

Unit 3 Brooklands,  
Howden Road,  
Tiverton,  
Devon  
EX16 5HW



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Project No.	Project Name
9362	Plots 1-5 Flowers Bloom Berrow
Client Job No.	Client
9362	Internal

Hole No.	Sample				Soil Description	mc	Passing 425µm	LL	PL	PI	Particle density	Remarks
	Type	Top	Base	Ref		Cl.3.2		Cl5.3	Cl5.4			
						%	%	%	%	%	Mg/m3	
BH01	U100	4.00	4.45	-	Grey and light brown slightly sandy silty CLAY	25	100 - Natural	41 - 1pt	18	23	-	
BH01	U100	7.00	7.45	-	Grey slightly sandy silty CLAY	61	100 - Natural	76 - 1pt	29	47	-	
BH01	U100	9.00	9.45	-	Grey CLAY	51	100 - Natural	59 - 1pt	24	35	-	
BH01	U100	11.50	11.95	-	Grey CLAY	39	100 - Natural	39 - 1pt	21	18	-	
BH02	B	4.00	5.00	-	Blueish grey and brown slightly sandy silty CLAY	29	100 - Natural	54 - 1pt	23	31	-	
BH02	U100	5.00	5.45	-	Grey slightly sandy silty CLAY	38	100 - Natural	48 - 1pt	22	26	-	
						-	-	-	-	-	-	
						-	-	-	-	-	-	
						-	-	-	-	-	-	
						-	-	-	-	-	-	

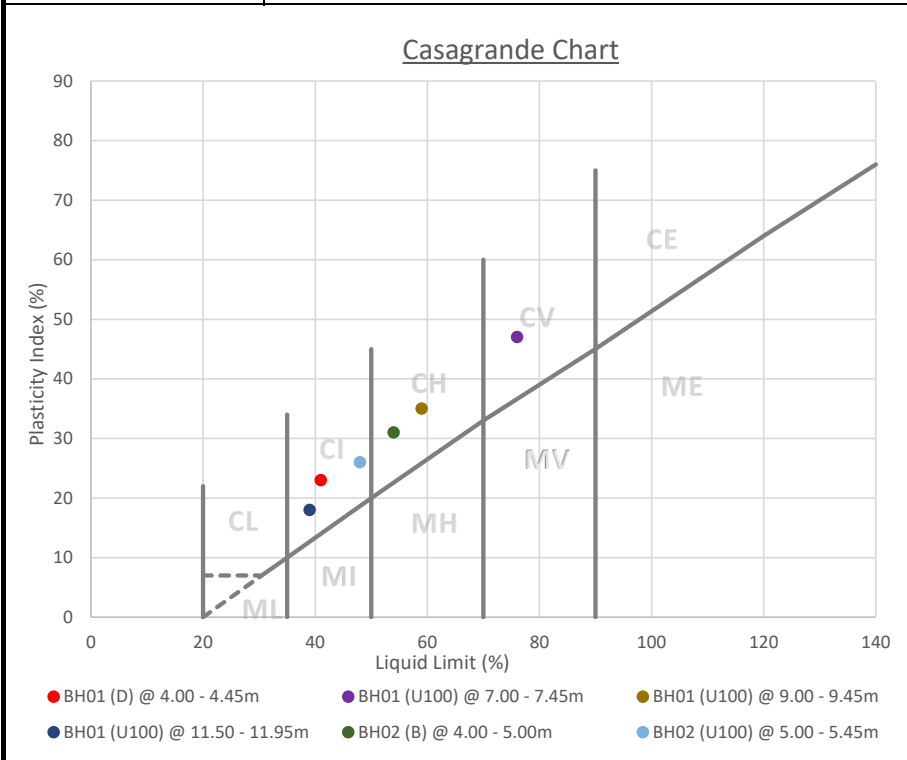
Preparation Clauses: Particle Density (BS1377:Part 1: 1990: CL7.4.4) Atterberg Limits (BS1377:Part 1: 1990: CL7.4.3) Moisture Content (BS1377: Part 1: 1990: CL7.3.3 & 7.4.2)

<b>Key</b> Atterberg Limits BS1377-2:1990 4pt cone (CL.4.3) unless : 1pt - single point test (CL.4.4) 4.2.3 - Natural 4.2.4 - Sieved Moisture Content (mc) %	Particle density BS1377-2:1990 sp - small pyknometer CL.8.3 gj - gas jar CL.8.2	Date	Approved By	Page No.	1
		05/10/2017	Dan A - Deputy QM	KL001R Index Summary	

## Graphical Summary of Atterberg Test Results

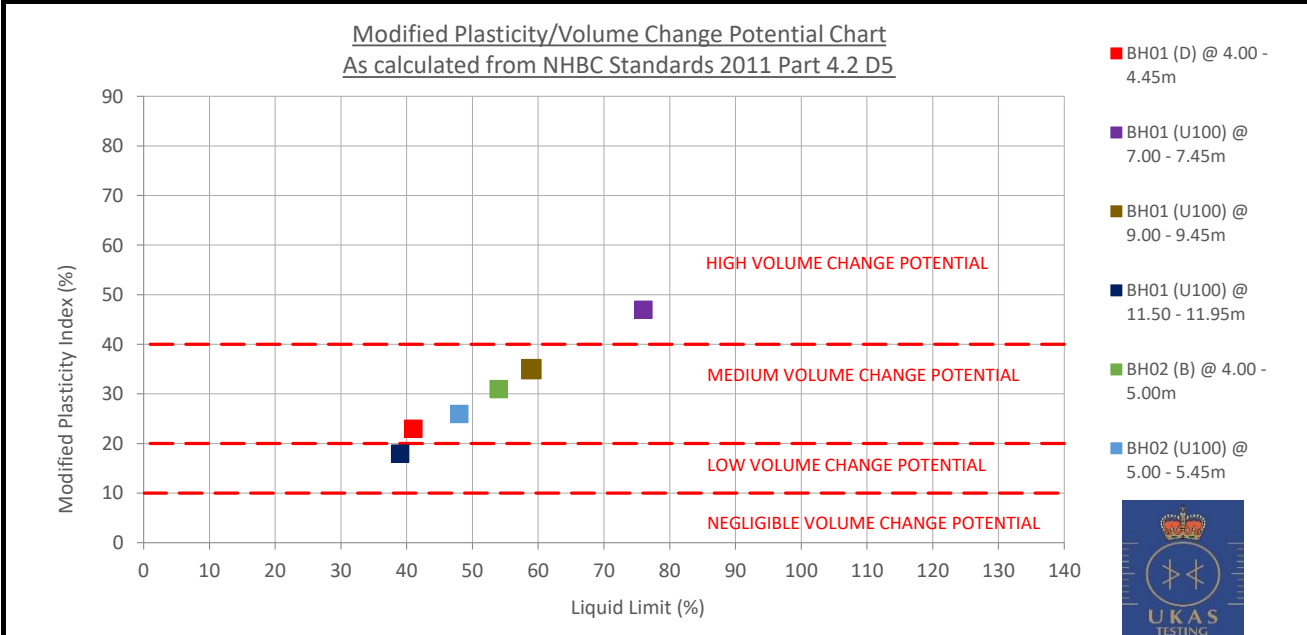
**Unit 3 Brooklands,  
Howden Road,  
Tiverton,  
Devon  
EX16 5HW**

Project No.	Project Name
9362	Plots 1-5 Flowers Bloom Berrow
Client Job No.	47
-	Internal Job




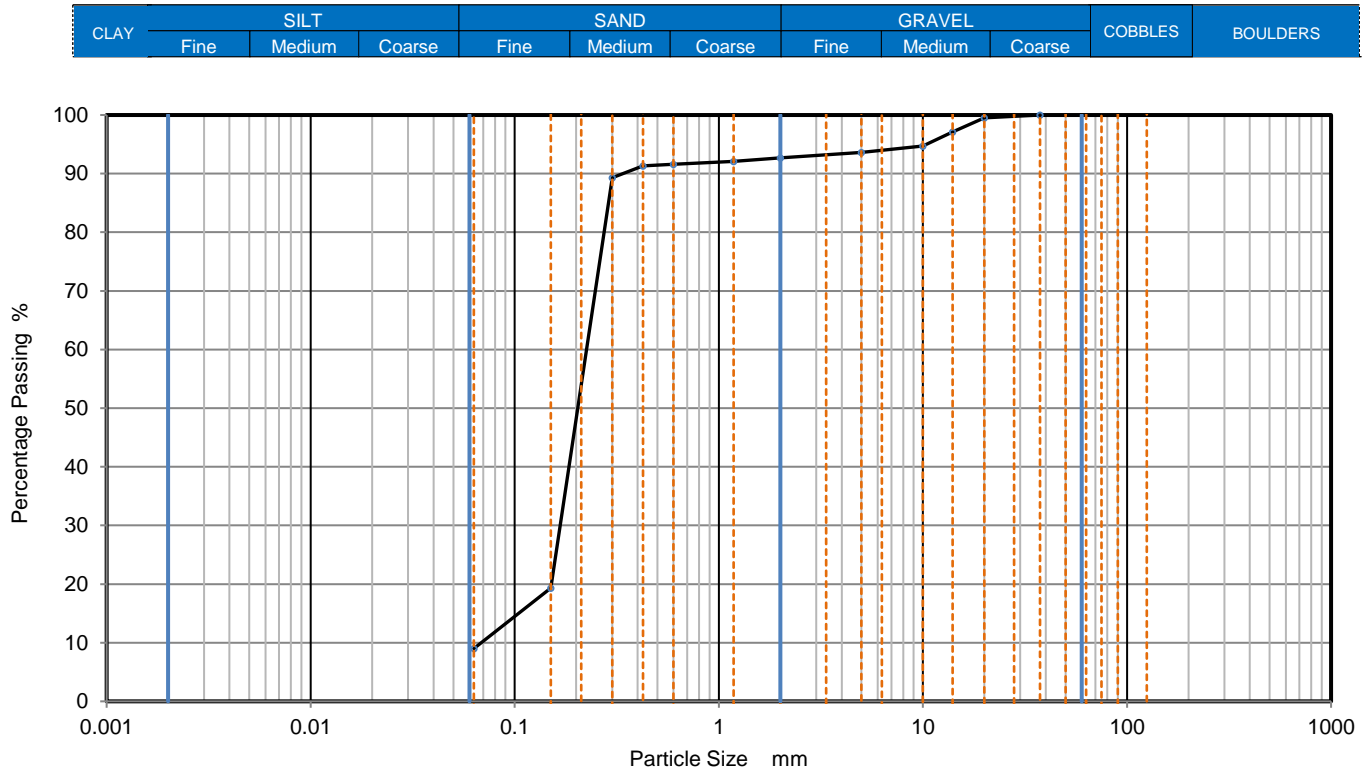
Sample ID	Plasticity Index (%)	Modified Plasticity Index (%)
BH01 (D) @ 4.00 - 4.45m	23	23
BH01 (U100) @ 7.00 - 7.45m	47	47
BH01 (U100) @ 9.00 - 9.45m	35	35
BH01 (U100) @ 11.50 - 11.95m	18	18
BH02 (B) @ 4.00 - 5.00m	31	31
BH02 (U100) @ 5.00 - 5.45m	26	26
-	-	-
-	-	-
-	-	-
-	-	-

**The Modified Plasticity Index (I<sub>p</sub>) is defined as the Plasticity Index (I<sub>p</sub>) of the soil multiplied by the percentage of particles less than 425µm.  
ie. I<sub>p</sub> x % less than 425µm/100%**



KL001a Index Graphical Summary	Approved By	Date	Page No.
	Dan Ayre - Deputy Quality Manager	05/10/2017 14:20	1

	<b>Particle Size Distribution</b>		<b>Project No.</b>	<b>9362</b>	
	<b>BS1377:Part 2:1990, clause 9.2</b>		<b>Borehole/Pit No.</b>	BH01	
<b>Project Name</b>	Plots 1-5 Flowers Bloom Berrow			<b>Sample No.</b>	-
<b>Soil Description</b>	Brown silty gravelly SAND			<b>Depth, m</b>	1.00 - 2.00
<b>Client Job No.</b>	9362	<b>Specimen Depth</b>	1.00 m	<b>Sample Type</b>	B
<b>Client</b>	Internal				



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	-	-	-
75	-	-	-
63	-	-	-
50	-	-	-
37.5	100	-	-
20	100	-	-
14	97	-	-
10	95	-	-
5	94	-	-
2	93	-	-
1.18	92	-	-
0.6	92	-	-
0.425	91	-	-
0.3	89	-	-
0.15	19	-	-
0.063	9	-	-

<b>Dry Mass of sample, g</b>	1248
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Sample Proportions	% dry mass
Very coarse	0
Gravel	7
Sand	84
Fines <0.063mm	9

Grading Analysis		
D100	mm	37.5
D60	mm	0.225
D30	mm	0.167
D10	mm	0.0688
Uniformity Coefficient		3.3
Curvature Coefficient		1.8


<b>Sedimentation pre-treatment</b>
N/A

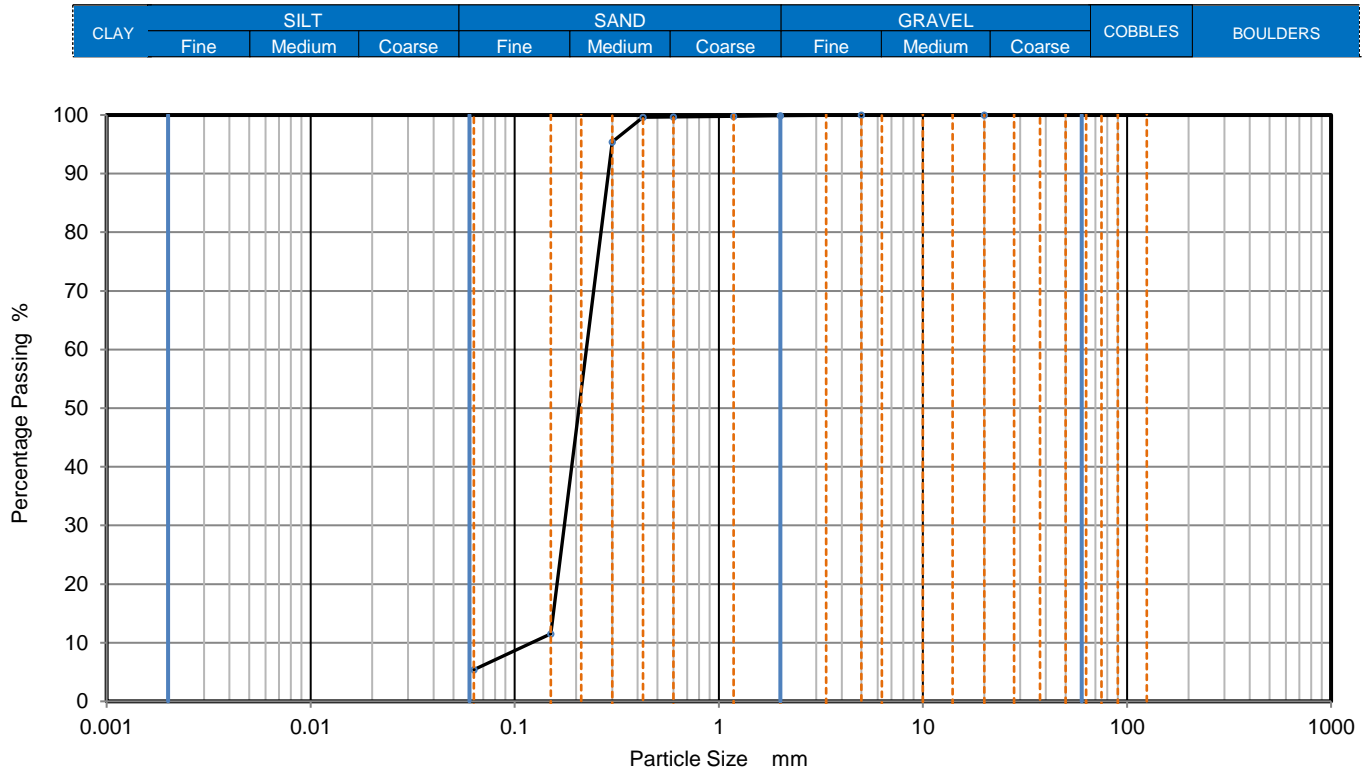
**Remarks**  
Preparation and testing in accordance with BS1377: Part 1: 1990 CL7.3 & 7.4.5



<b>Page No.</b>	1	<b>Date</b>	<b>Approved</b>
<b>Sheet ID: KL002R PSD</b>	05/10/2017 14:37	Dan A - Deputy QM	

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	<b>Particle Size Distribution</b>		<b>Project No.</b>	<b>9362</b>	
	<b>BS1377:Part 2:1990, clause 9.2</b>		<b>Borehole/Pit No.</b>	BH01	
<b>Project Name</b>	Plots 1-5 Flowers Bloom Berrow			<b>Sample No.</b>	-
<b>Soil Description</b>	Greyish brown silty SAND			<b>Depth, m</b>	3.00 - 4.00
<b>Client Job No.</b>	9362	<b>Specimen Depth</b>	3.00 m	<b>Sample Type</b>	B
<b>Client</b>	Internal				



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	-	-	-
75	-	-	-
63	-	-	-
50	-	-	-
37.5	-	-	-
20	100	-	-
14	-	-	-
10	-	-	-
5	100	-	-
2	100	-	-
1.18	100	-	-
0.6	100	-	-
0.425	100	-	-
0.3	95	-	-
0.15	12	-	-
0.063	5	-	-

<b>Sedimentation pre-treatment</b>
N/A

<b>Dry Mass of sample, g</b>	531
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Sample Proportions	% dry mass
Very coarse	0
Gravel	0
Sand	94
Fines <0.063mm	5


Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	1.9
Curvature Coefficient	1.1

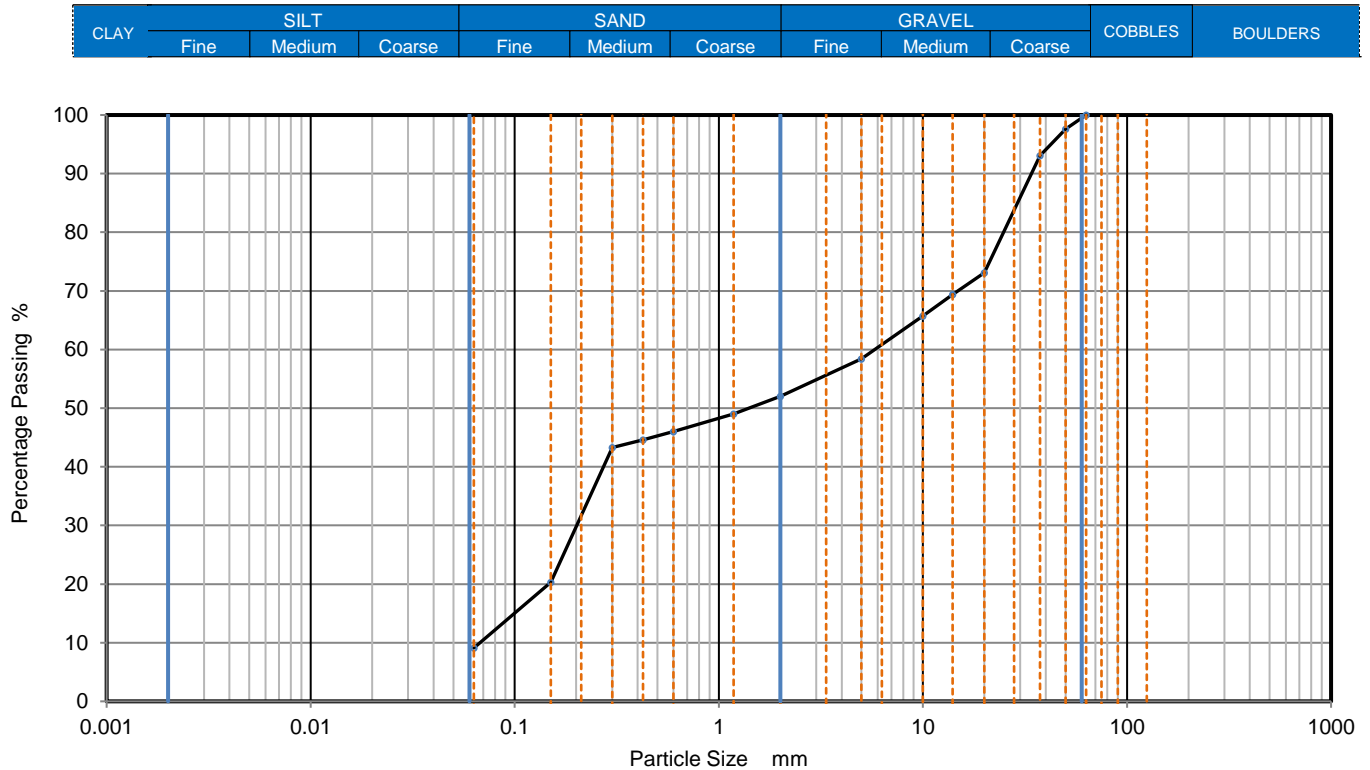
**Remarks**  
Preparation and testing in accordance with BS1377: Part 1: 1990 CL7.3 & 7.4.5



<b>Page No.</b>	<b>2</b>	<b>Date</b>	<b>Approved</b>
<b>Sheet ID: KL002R PSD</b>		05/10/2017 14:37	Dan A - Deputy QM

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	<b>Particle Size Distribution</b>		<b>Project No.</b>	<b>9362</b>	
	<b>BS1377:Part 2:1990, clause 9.2</b>		<b>Borehole/Pit No.</b>	BH02	
<b>Project Name</b>	Plots 1-5 Flowers Bloom Berrow			<b>Sample No.</b>	-
<b>Soil Description</b>	Dark brownish grey silty SAND and GRAVEL			<b>Depth, m</b>	0.00 - 1.00
<b>Client Job No.</b>	9362	<b>Specimen Depth</b>	0.00 m	<b>Sample Type</b>	B
<b>Client</b>	Internal				



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	-	-	-
75	-	-	-
63	100	-	-
50	98	-	-
37.5	93	-	-
20	73	-	-
14	69	-	-
10	66	-	-
5	58	-	-
2	52	-	-
1.18	49	-	-
0.6	46	-	-
0.425	45	-	-
0.3	43	-	-
0.15	20	-	-
0.063	9	-	-

<b>Dry Mass of sample, g</b>	7720
<b>Sample Proportions</b>	<b>% dry mass</b>
Very coarse	0
Gravel	48
Sand	43
Fines <0.063mm	9

Grading Analysis		
D100	mm	63
D60	mm	5.8
D30	mm	0.201
D10	mm	0.0674
Uniformity Coefficient		86
Curvature Coefficient		0.1


<b>Sedimentation pre-treatment</b>
N/A

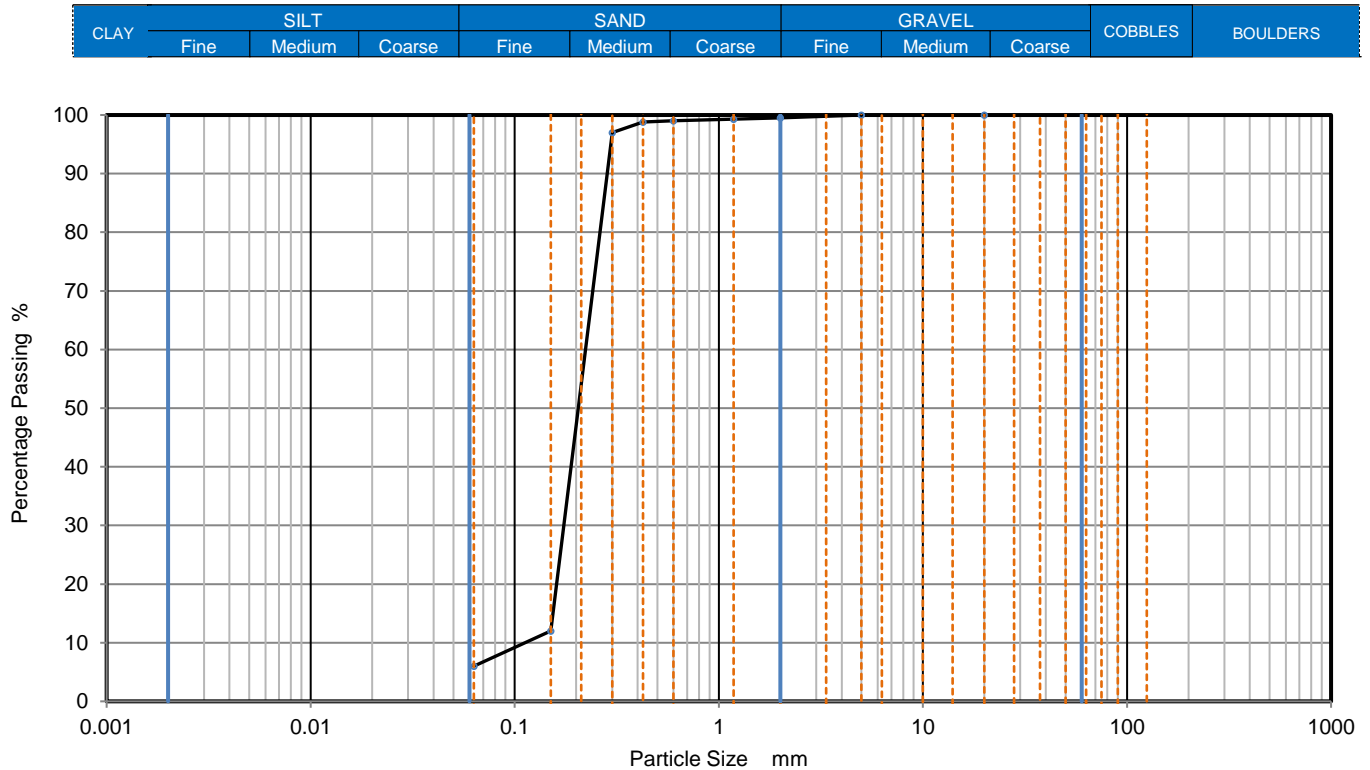
**Remarks**  
Preparation and testing in accordance with BS1377 - Deviation to standard as insufficient material provided in order to meet the minimum mass requirement



<b>Page No.</b>	<b>3</b>	<b>Date</b>	<b>Approved</b>
<b>Sheet ID: KL002R PSD</b>		05/10/2017 14:37	Dan A - Deputy QM

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	<b>Particle Size Distribution</b>		<b>Project No.</b>	<b>9362</b>		
	<b>BS1377:Part 2:1990, clause 9.2</b>		<b>Borehole/Pit No.</b>	BH02		
<b>Project Name</b>	Plots 1-5 Flowers Bloom Berrow		<b>Sample No.</b>	-		
<b>Soil Description</b>	Brown silty SAND		<b>Depth, m</b>	3.00	- 4.00	
<b>Client Job No.</b>	9362	<b>Specimen Depth</b>	3.00	m	<b>Sample Type</b>	B
<b>Client</b>	Internal					



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	-	-	-
75	-	-	-
63	-	-	-
50	-	-	-
37.5	-	-	-
20	100	-	-
14	-	-	-
10	-	-	-
5	100	-	-
2	100	-	-
1.18	99	-	-
0.6	99	-	-
0.425	99	-	-
0.3	97	-	-
0.15	12	-	-
0.063	6	-	-

<b>Dry Mass of sample, g</b>	622
<b>Sample Proportions</b>	<b>% dry mass</b>
Very coarse	0
Gravel	1
Sand	94
Fines <0.063mm	6

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	2
Curvature Coefficient	1.2


<b>Sedimentation pre-treatment</b>
N/A

**Remarks**  
Preparation and testing in accordance with BS1377: Part 1: 1990 CL7.3 & 7.4.5



<b>Page No.</b>	4	<b>Date</b>	<b>Approved</b>
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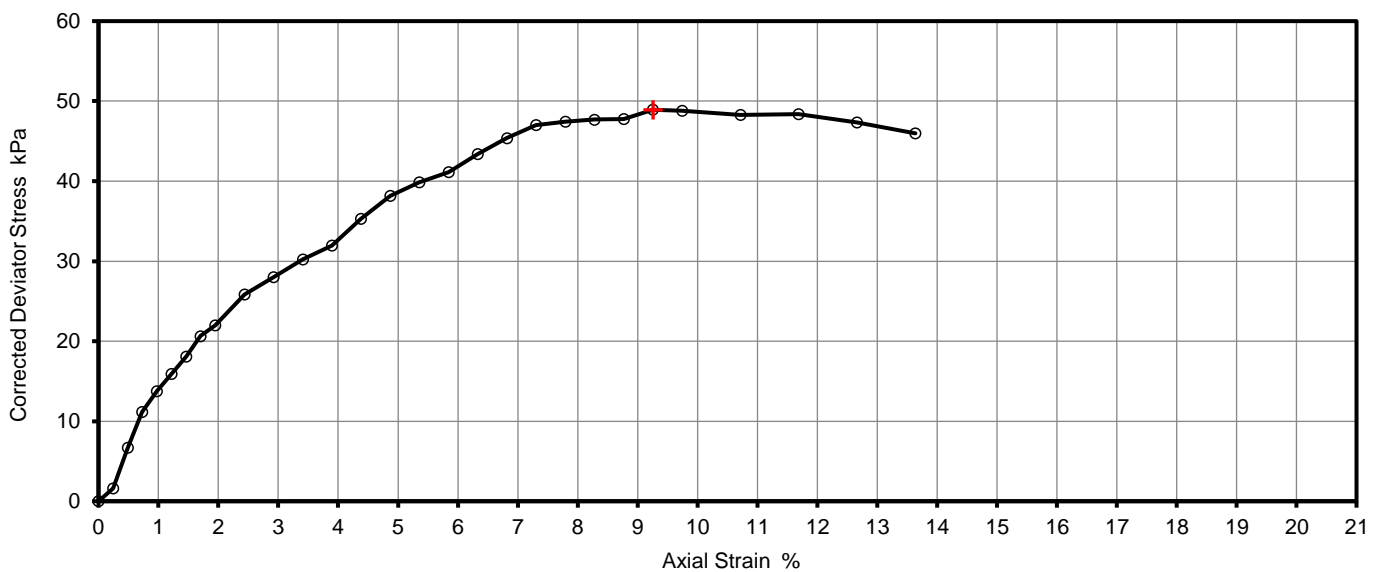
	<b>Unconsolidated Undrained Triaxial Compression Test without measurement of pore pressure - single specimen</b>		<b>Project No.</b>	9362	
			<b>BH / TP No.</b>	BH01	
<b>Project Name</b>	Plots 1-5 Flowers Bloom Berrow		<b>Sample No.</b>	-	
<b>Soil Description</b>	Grey CLAY		<b>Depth (m)</b>	7.00 - 7.45	
<b>Client Job No.</b>	-	<b>Specimen Depth</b>	7.20 m	<b>Sample Type</b>	U100
<b>Client</b>	Internal Job		<b>KeyLAB ID</b>	-	
<b>Test Method</b>	BS1377 : Part 7 : 1990, clause 8, single specimen		<b>Date of test</b>	05/10/2017	

Prep Method for undisturbed samples: BS1377:Part 1: 1990: Clause 8.3  
Prep Method for remoulded samples: BS1377:Part 1: 1990: Clause 7.7.3 & 7.7.5 with reference to 8.4.1

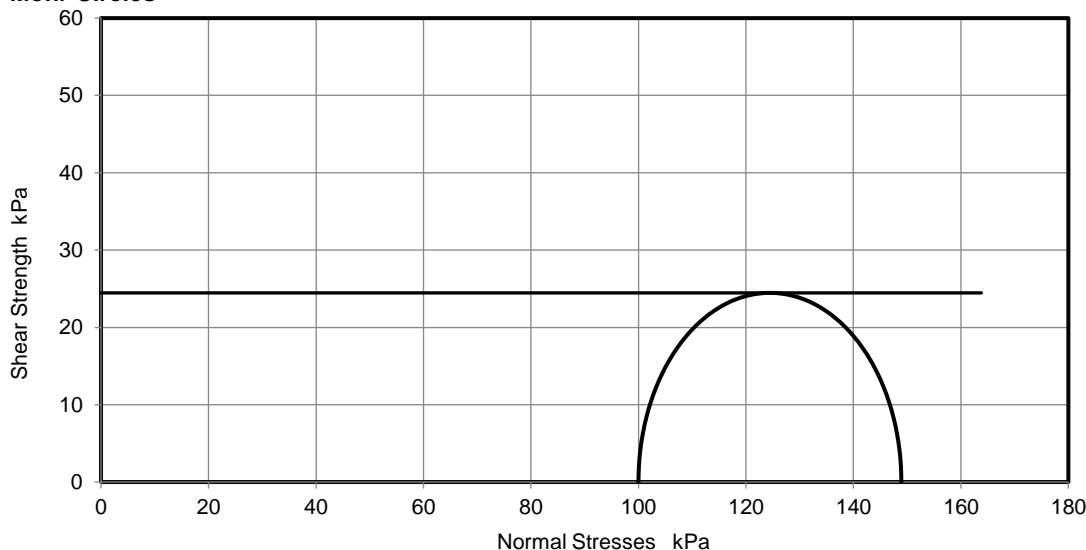
**UNDISTURBED**  
BS1377: Part 1: 1990: Clause 8.3  
Undisturbed direct from tube

<b>Height</b>	205.3	mm
<b>Diameter</b>	105.0	mm
<b>Bulk Density</b>	1.59	Mg/m <sup>3</sup>
<b>Moisture Content</b>	64	%
<b>Dry Density</b>	0.97	Mg/m <sup>3</sup>
<b>Rate of Strain</b>	2.0	%/min
<b>Cell Pressure</b>	100	kPa
<b>Axial Strain</b>	9.3	%
<b>Deviator Stress, <math>(\sigma_1 - \sigma_3)_f</math></b>	49	kPa
<b>Undrained Shear Strength, <math>c_u</math></b>	24	kPa = $\frac{1}{2}(\sigma_1 - \sigma_3)_f$
<b>Mode of Failure</b>	Plastic	

**Deviator Stress v Axial Strain**



**Mohr Circles**



Deviator stress corrected for area change and membrane effects

Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.



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**Remarks**

**Approved**  
Nick W-Williams -  
Quality Manager

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25/10/2017 12:49

Lab Sheet Reference : KL011 - Quick Undrained Triaxial (Single)



	<b>Unconsolidated Undrained Triaxial Compression Test without measurement of pore pressure - single specimen</b>		<b>Project No.</b>	9362	
			<b>BH / TP No.</b>	BH01	
<b>Project Name</b>	Plots 1-5 Flowers Bloom Berrow		<b>Sample No.</b>	-	
<b>Soil Description</b>	Dark grey CLAY		<b>Depth (m)</b>	11.50 - 11.95	
<b>Client Job No.</b>	-	<b>Specimen Depth</b>	11.70 m	<b>Sample Type</b>	U100
<b>Client</b>	Internal Job		<b>KeyLAB ID</b>	-	
<b>Test Method</b>	BS1377 : Part 7 : 1990, clause 8, single specimen		<b>Date of test</b>	27/09/2017	

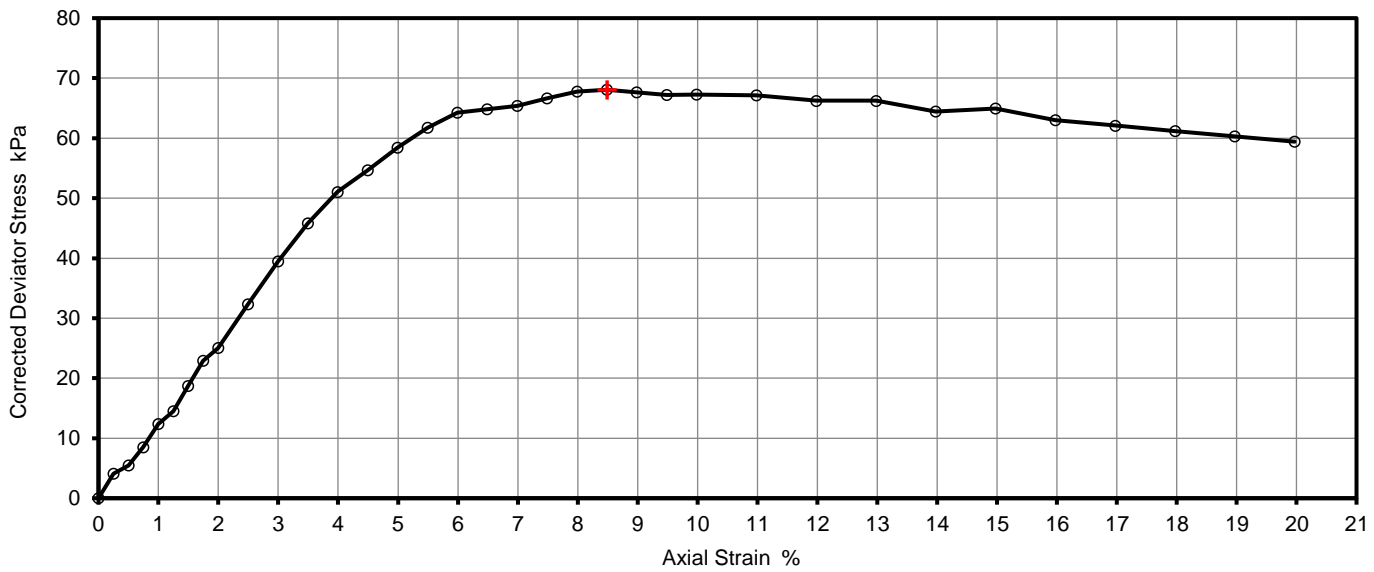
Prep Method for undisturbed samples: BS1377:Part 1: 1990: Clause 8.3  
Prep Method for remoulded samples: BS1377:Part 1: 1990: Clause 7.7.3 & 7.7.5 with reference to 8.4.1

**UNDISTURBED**  
BS1377: Part 1: 1990: Clause 8.3  
Undisturbed direct from tube

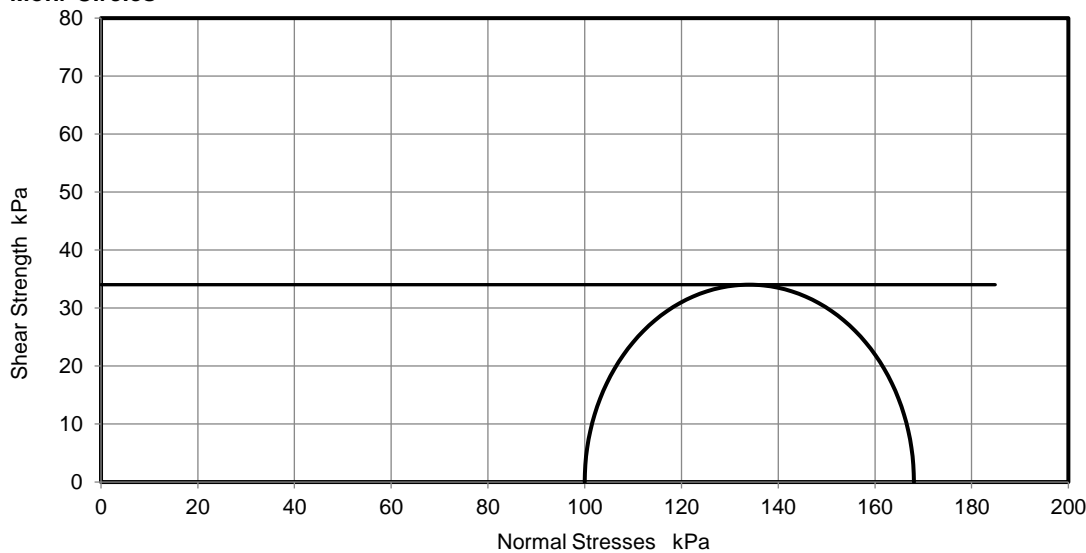
<b>Height</b>	200.3	mm
<b>Diameter</b>	104.8	mm
<b>Bulk Density</b>	1.80	Mg/m <sup>3</sup>
<b>Moisture Content</b>	24	%
<b>Dry Density</b>	1.45	Mg/m <sup>3</sup>

<b>Rate of Strain</b>	2.0	%/min
<b>Cell Pressure</b>	100	kPa
<b>Axial Strain</b>	8.5	%
<b>Deviator Stress, <math>(\sigma_1 - \sigma_3)_f</math></b>	68	kPa
<b>Undrained Shear Strength, <math>c_u</math></b>	34	kPa = $\frac{1}{2}(\sigma_1 - \sigma_3)_f$
<b>Mode of Failure</b>	Compound	

**Deviator Stress v Axial Strain**



**Mohr Circles**



Deviator stress corrected for area change and membrane effects

Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.




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**Remarks**

**Approved**  
Nick W-Williams -  
Quality Manager

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25/10/2017 12:51

Lab Sheet Reference : KL011 - Quick Undrained Triaxial (Single)

	<b>Unconsolidated Undrained Triaxial Compression Test without measurement of pore pressure - single specimen</b>		<b>Project No.</b>	9362	
			<b>BH / TP No.</b>	BH02	
<b>Project Name</b>	Plots 1-5 Flowers Bloom Berrow		<b>Sample No.</b>	-	
<b>Soil Description</b>	Dark grey slightly sandy CLAY		<b>Depth (m)</b>	5.00 - 5.45	
<b>Client Job No.</b>	-	<b>Specimen Depth</b>	5.25 m	<b>Sample Type</b>	U100
<b>Client</b>	Internal Job		<b>KeyLAB ID</b>	-	
<b>Test Method</b>	BS1377 : Part 7 : 1990, clause 8, single specimen		<b>Date of test</b>	27/09/2017	

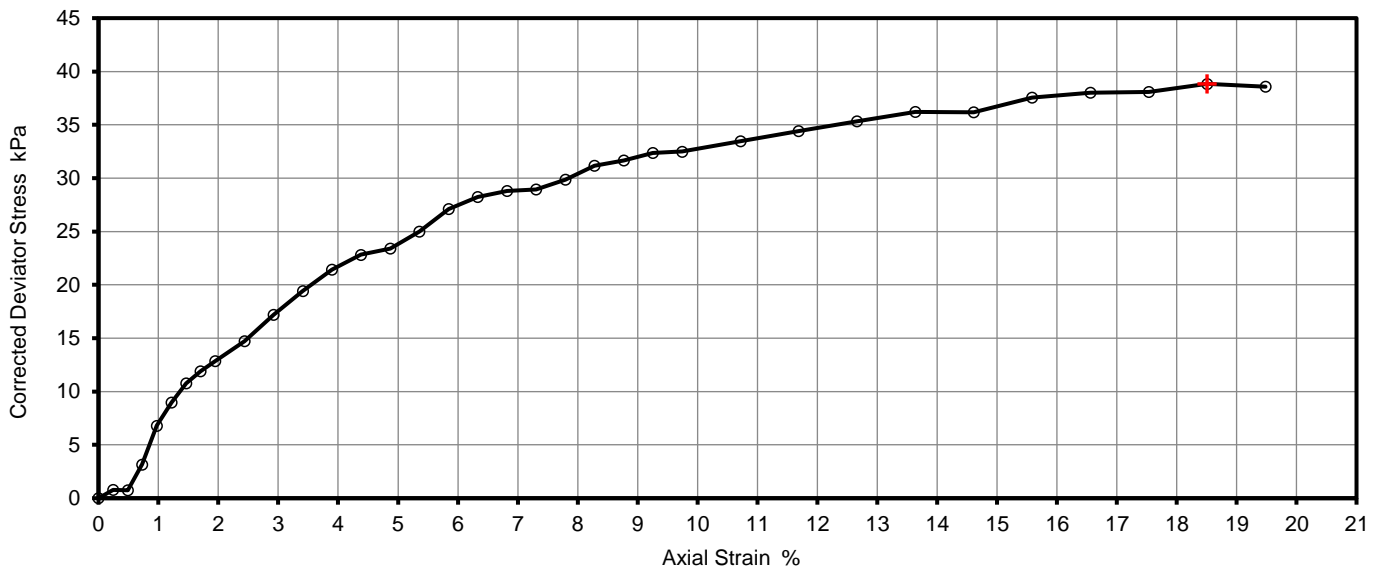
Prep Method for undisturbed samples: BS1377:Part 1: 1990: Clause 8.3  
Prep Method for remoulded samples: BS1377:Part 1: 1990: Clause 7.7.3 & 7.7.5 with reference to 8.4.1

**UNDISTURBED**  
BS1377: Part 1: 1990: Clause 8.3  
Undisturbed direct from tube

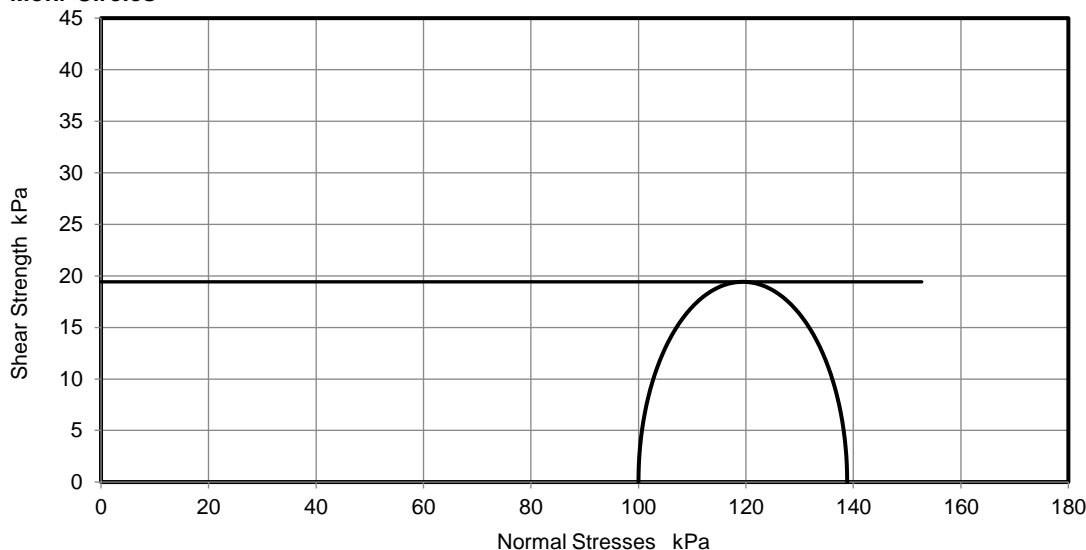
<b>Height</b>	205.3	mm
<b>Diameter</b>	105.0	mm
<b>Bulk Density</b>	1.78	Mg/m <sup>3</sup>
<b>Moisture Content</b>	38	%
<b>Dry Density</b>	1.29	Mg/m <sup>3</sup>

<b>Rate of Strain</b>	2.0	%/min
<b>Cell Pressure</b>	100	kPa
<b>Axial Strain</b>	18.5	%
<b>Deviator Stress, <math>(\sigma_1 - \sigma_3)_f</math></b>	39	kPa
<b>Undrained Shear Strength, <math>c_u</math></b>	19	kPa = $\frac{1}{2}(\sigma_1 - \sigma_3)_f$
<b>Mode of Failure</b>	Compound	

**Deviator Stress v Axial Strain**



**Mohr Circles**



Deviator stress corrected for area change and membrane effects

Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.




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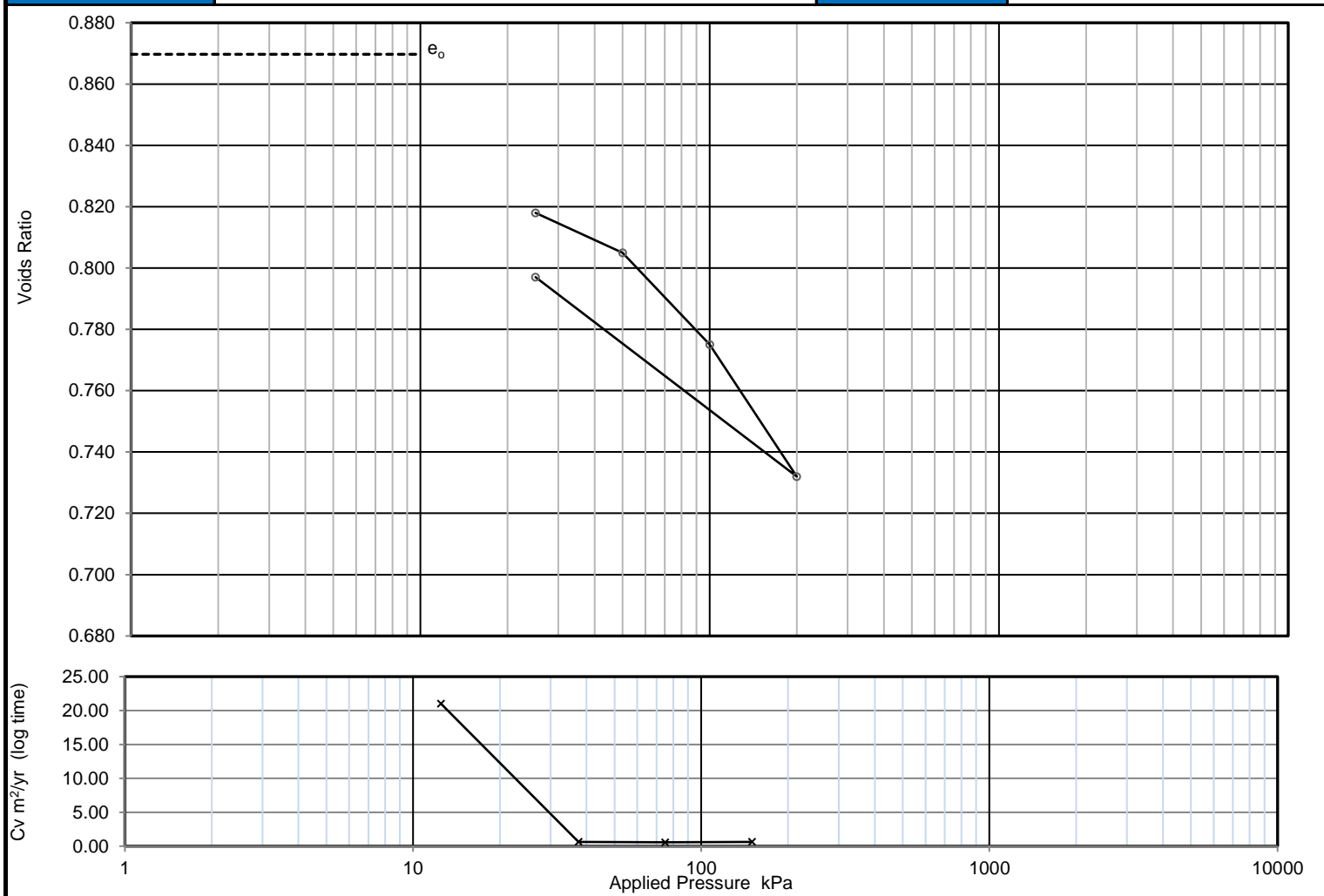
**Remarks**

**Approved**  
Nick W-Williams -  
Quality Manager

**Printed**  
25/10/2017 12:54

Lab Sheet Reference : KL011 - Quick Undrained Triaxial (Single)

	<b>ONE DIMENSIONAL CONSOLIDATION TEST</b> <b>BS1377:Part 5:1990, Clause 3</b>		Project No.	9362		
			Borehole/Pit No.	BH01		
Site Name	Plots 1-5 Flowers Bloom Berraw		Sample No.	-		
Soil Description	Grey and light brown slightly sandy silty CLAY		Depth	4	4.45	
Client Job No.	-	Specimen Depth	4.1	m	Sample Type	U100
Client	Internal		KeyLAB ID	SWG12017091948		
Specimen Description	Grey and light brown slightly sandy silty CLAY		Date started	06/10/2017		



Applied Pressure kPa	Voids ratio	Mv m2/MN	Cv (t50, log) m2/yr	Cv (t90, root) m2/yr	Csec
	0.870	-	-	-	-
25	0.818	0.38	21	21	0.00018
50	0.805	0.27	0.64	0.65	0.0011
100	0.775	0.34	0.57	0.59	0.002
200	0.732	0.24	0.64	0.63	0.0035
25	0.797	0.11			

Preparation	BS1377:Part 1: 1990: CL8.7 (Prep from a block sample)					
Index tests	Liquid limit	41	%	Plastic limit	18	%

Particle density	Assumed	2.70	Mg/m3
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Specimen details	Initial	Final	
Diameter	75.00	-	mm
Height	20.00	19.23	mm
Moisture Content	31	30	%
Bulk density	1.90	1.95	Mg/m3
Dry density	1.44	1.50	Mg/m3
Voids Ratio	0.870	0.797	
Saturation	98	102	%
Average temperature for test	20.0		oC
Swelling Pressure			kPa
Settlement on saturation			%


Remarks

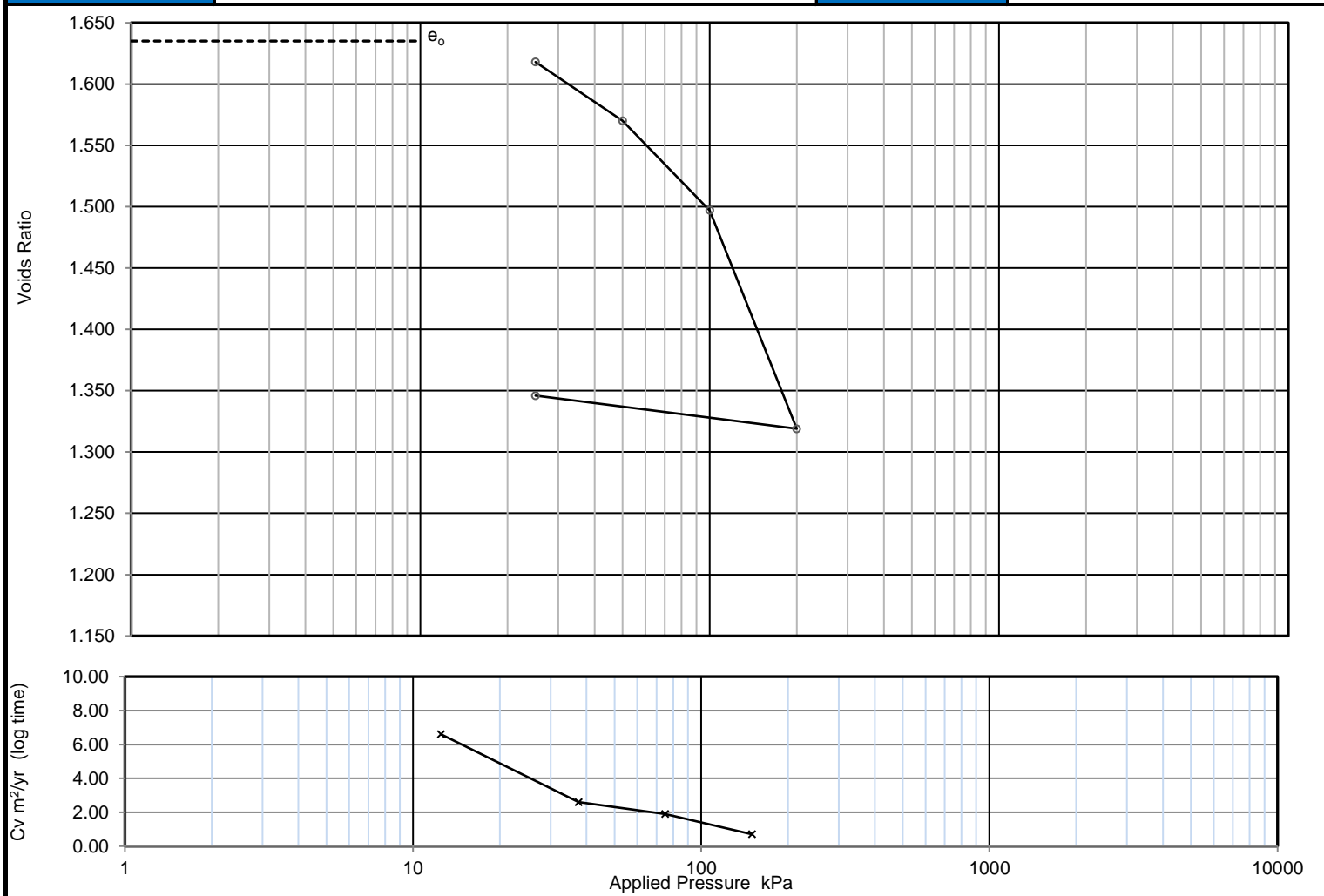


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Final values should be used with caution  
Cv plotted at mid point of load increments  
Cv corrected to 20oC

KL008R Consolidation	Approved	Printed :	Fig. No
	Dan A - Deputy QM	25/10/2017 12:39	1

	<b>ONE DIMENSIONAL CONSOLIDATION TEST</b> <b>BS1377:Part 5:1990, Clause 3</b>		Project No.	9362		
			Borehole/Pit No.	BH01		
Site Name	Plots 1-5 Flowers Bloom Berrow		Sample No.	-		
Soil Description	Grey slightly sandy silty CLAY		Depth	7	7.45	
Client Job No.	-	Specimen Depth	7.15	m	Sample Type	U100
Client	Internal		KeyLAB ID	SWG12017091949		
Specimen Description	Grey slightly sandy silty CLAY		Date started	12/10/2017		



Applied Pressure kPa	Voids ratio	M <sub>v</sub> m <sup>2</sup> /MN	C <sub>v</sub> (t50, log) m <sup>2</sup> /yr	C <sub>v</sub> (t90, root) m <sup>2</sup> /yr	C <sub>sec</sub>
	1.635	-	-	-	-
25	1.618	0.99	6.6	110	0.0015
50	1.570	0.73	2.6	2.6	0.0028
100	1.497	0.57	1.9	1.9	0.0066
200	1.319	0.71	0.7	0.71	0.013
25	1.346	0.17			

Preparation	BS1377:Part 1: 1990: CL8.7 (Prep from a block sample)					
Index tests	Liquid limit	76	%	Plastic limit	29	%

Particle density	Assumed	2.65	Mg/m <sup>3</sup>
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Specimen details	Initial	Final	
Diameter	73.50	-	mm
Height	20.01	17.81	mm
Moisture Content	63	58	%
Bulk density	1.64	1.78	Mg/m <sup>3</sup>
Dry density	1.01	1.13	Mg/m <sup>3</sup>
Voids Ratio	1.635	1.346	
Saturation	103	114	%
Average temperature for test	20.0		oC
Swelling Pressure			kPa
Settlement on saturation			%


Remarks

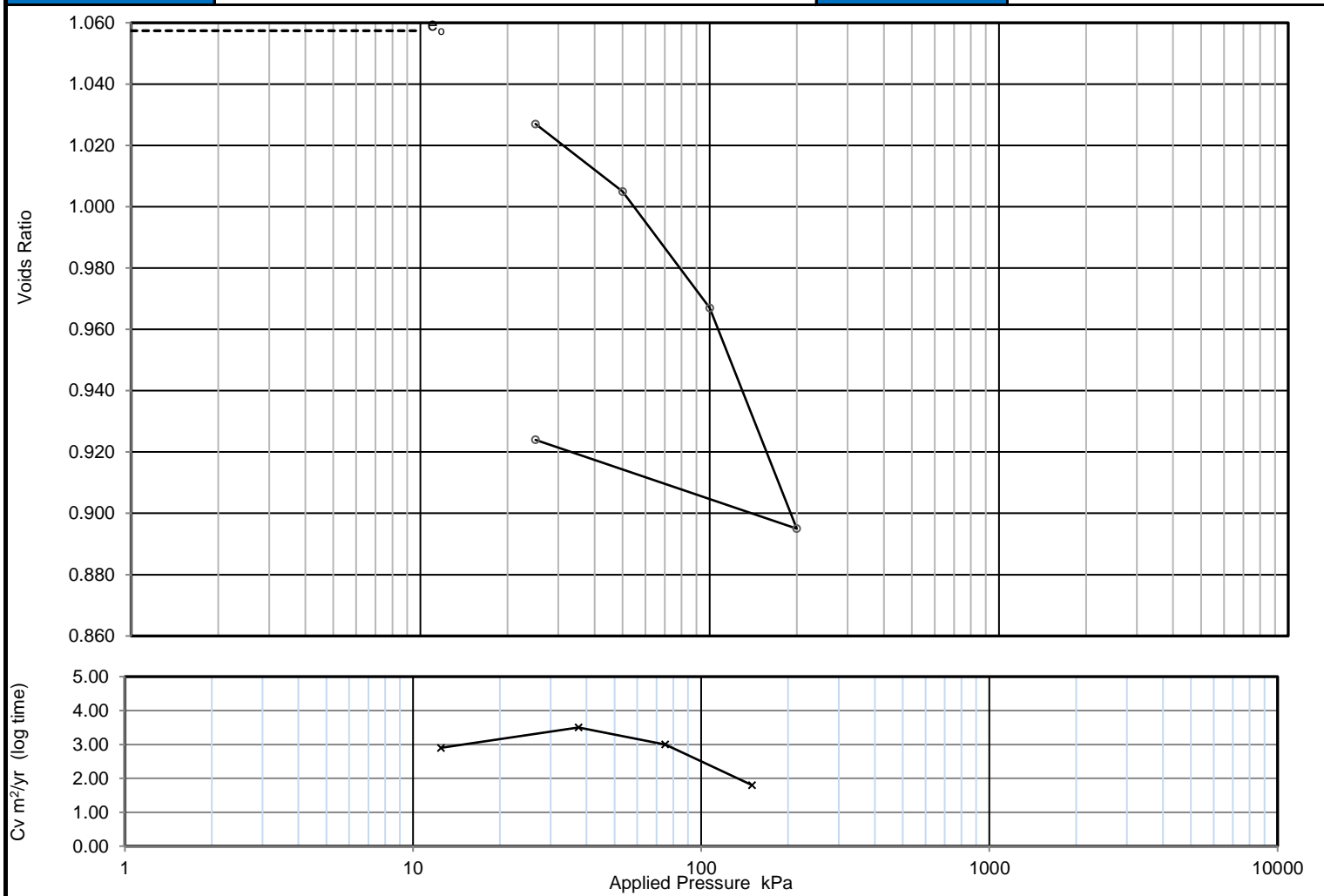


Accredited to  
ISO/IEC 17025:2005

Final values should be used with caution  
C<sub>v</sub> plotted at mid point of load increments  
C<sub>v</sub> corrected to 20oC

KL008R Consolidation	Approved	Printed :	Fig. No
	Dan A - Deputy QM	25/10/2017 12:39	2

	<b>ONE DIMENSIONAL CONSOLIDATION TEST</b> <b>BS1377:Part 5:1990, Clause 3</b>		Project No.	9362		
			Borehole/Pit No.	BH01		
Site Name	Plots 1-5 Flowers Bloom Berraw		Sample No.	-		
Soil Description	Grey CLAY		Depth	11.5	- 11.95	
Client Job No.	-	Specimen Depth	11.5	m	Sample Type	U100
Client	Internal		KeyLAB ID	SWG12017091954		
Specimen Description	Grey silty CLAY		Date started	17/10/2017		



Applied Pressure kPa	Voids ratio	Mv m2/MN	Cv (t50, log) m2/yr	Cv (t90, root) m2/yr	Csec
	1.057	-	-	-	-
25	1.027	0.59	2.9	2.8	0.00099
50	1.005	0.43	3.5	3.5	0.0017
100	0.967	0.38	3	3	0.003
200	0.895	0.37	1.8	1.8	0.0077
25	0.924	0.089			

Preparation	BS1377:Part 1: 1990: CL8.7 (Prep from a block sample)		
Index tests	Liquid limit	%	Plastic limit %

Particle density	Assumed	2.65	Mg/m3
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Specimen details	Initial	Final	
Diameter	75.00	-	mm
Height	20.01	18.71	mm
Moisture Content	40	37	%
Bulk density	1.80	1.88	Mg/m3
Dry density	1.29	1.38	Mg/m3
Voids Ratio	1.057	0.924	
Saturation	99	105	%
Average temperature for test	20.0		oC
Swelling Pressure			kPa
Settlement on saturation			%


Remarks

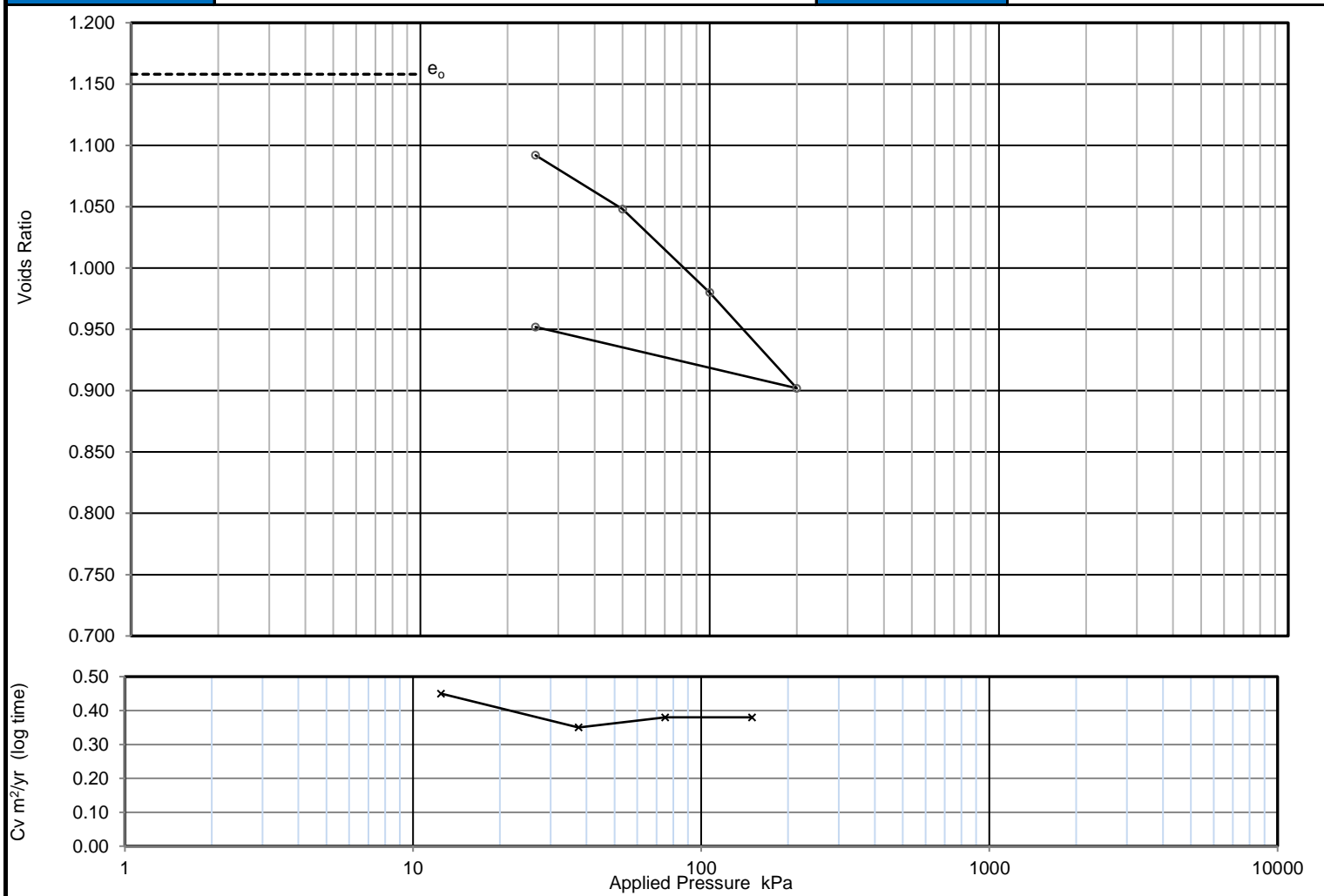


Accredited to ISO/IEC 17025:2005

Final values should be used with caution  
 Cv plotted at mid point of load increments  
 Cv corrected to 20oC

KL008R Consolidation	Approved	Printed :	Fig. No
	Nick W-W - QM	25/10/2017 12:39	3

	<b>ONE DIMENSIONAL CONSOLIDATION TEST</b> <b>BS1377:Part 5:1990, Clause 3</b>		Project No.	9362		
			Borehole/Pit No.	BH02		
Site Name	Plots 1-5 Flowers Bloom Berrow		Sample No.	-		
Soil Description	Grey slightly sandy silty CLAY		Depth	5	- 5.45	
Client Job No.	-	Specimen Depth	5.1	m	Sample Type	U100
Client	Internal		KeyLAB ID	SWG12017091975		
Specimen Description	Grey slightly sandy silty CLAY		Date started	27/09/2017		



Applied Pressure kPa	Voids ratio	M <sub>v</sub> m <sup>2</sup> /MN	C <sub>v</sub> (t50, log) m <sup>2</sup> /yr	C <sub>v</sub> (t90, root) m <sup>2</sup> /yr	C <sub>sec</sub>
	1.158	-	-	-	-
25	1.092	1.2	0.45	0.45	0.0034
50	1.048	0.86	0.35	0.35	0.0023
100	0.980	0.66	0.38	0.38	0.0048
200	0.902	0.4	0.38	0.38	0.0052
25	0.952	0.15			

Preparation	BS1377:Part 1: 1990: CL8.7 (Prep from a block sample)					
Index tests	Liquid limit	48	%	Plastic limit	22	%

Particle density	Assumed	2.65	Mg/m <sup>3</sup>
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Specimen details	Initial	Final	
Diameter	75.00	-	mm
Height	20.00	18.09	mm
Moisture Content	44	38	%
Bulk density	1.77	1.88	Mg/m <sup>3</sup>
Dry density	1.23	1.36	Mg/m <sup>3</sup>
Voids Ratio	1.158	0.952	
Saturation	101	106	%
Average temperature for test	20.0		oC
Swelling Pressure			kPa
Settlement on saturation			%

Remarks



Accredited to  
ISO/IEC 17025:2005

Final values should be used with caution  
C<sub>v</sub> plotted at mid point of load increments  
C<sub>v</sub> corrected to 20oC

<b>KL008R</b> <b>Consolidation</b>	Approved	Printed :	Fig. No
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