

TERRA TEK SITE INVESTIGATION AND LABORATORY SERVICES	Site ROYAL MAIL MOUNT PLEASANT SORTING OFFICE		Contract No B20578
	Client Royal Mail Group Limited		Hole BH14
	Engineer		Sample Ref Depth (m) 8.00 Sample Type U
 			
Originator	Checked & Approved	Please note that these photographs are intended to show the failure mode, and do not necessarily show accurately the colouration of the soil.	
SG	<i>S. Langman</i> 29/03/2017		
			Figure 96 Sheet 2 of 2

TERRA TEK SITE INVESTIGATION AND LABORATORY SERVICES	Site	ROYAL MAIL MOUNT PLEASANT SORTING OFFICE		Contract No.	B20578	
	Client	Royal Mail Group Limited		Hole	BH14	
	Engineer			Sample Ref		
				Depth (m)	14.00	
				Sample Type	U	

Sample Details		Undisturbed		
Sample Condition				
Height	mm	199.2		
Diameter	mm	102.1		
Moisture Content	%	24		
Bulk Density	Mg/m³	2.12		
Dry Density	Mg/m³	1.71		
Test Details				
Membrane Thickness	mm	0.20		
Membrane Correction	kPa	0.06		
Rate of Axial Displacement	%/min	2.01		
Cell Pressure	kPa	280		
Strain at Failure	%	1.0		
Maximum Deviator Stress	kPa	179		
Shear Strength	kPa	90		
Mode of Failure			Brittle	
Non Engineering Description		Brown CLAY.		

Shear Strength Parameters		
C	n/a	kPa
Phi	n/a	°

200

180

160

140

120

100

80

60

40

20

0

0

0.5

1

1.5

2

2.5

3

3.5

4

Deviator Stress - kPa

Strain - %

250

200

150

100

50

0

0

50

100

150

200

250

300

350

400

450

500

Shear Stress - kPa

Normal Stress - kPa

Sheet 1 of 2

TERRA TEK SITE INVESTIGATION AND LABORATORY SERVICES	Site	ROYAL MAIL MOUNT PLEASANT SORTING OFFICE	Contract No	B20578
	Client	Royal Mail Group Limited	Hole	BH14
	Engineer		Sample Ref	
			Depth (m)	14.00
			Sample Type	U



Originator	Checked & Approved	Please note that these photographs are intended to show the failure mode, and do not necessarily show accurately the colouration of the soil.	 Figure 97 Sheet 2 of 2
SG	<i>S. Langman</i> 29/03/2017		

TERRA TEK SITE INVESTIGATION AND LABORATORY SERVICES	Site	ROYAL MAIL MOUNT PLEASANT SORTING OFFICE		Contract No.	B20578
	Client	Royal Mail Group Limited		Hole	BH14
	Engineer			Sample Ref	
				Depth (m)	17.00
				Sample Type	U

Sample Details Sample Condition Height mm Diameter mm Moisture Content % Bulk Density Mg/m³ Dry Density Mg/m³	Undisturbed 200.4 101.8 15 1.99 1.73			Comments Undisturbed specimen taken 100mm below top of tube. Top half of sample very sandy clay, bottom half of sample predominantly clay.
Test Details Membrane Thickness mm Membrane Correction kPa Rate of Axial Displacement %/min Cell Pressure kPa Strain at Failure % Maximum Deviator Stress kPa Shear Strength kPa Mode of Failure	0.20 0.65 2.00 340 16.5 206 103			
Plastic				
Non Engineering Description		Brown very sandy CLAY.		

Shear Strength Parameters		
C	n/a	kPa
Phi	n/a	°

Originator	Checked & Approved	UNCONSOLIDATED UNDRAINED SINGLE STAGE TRIAXIAL COMPRESSION BS 1377 : Part 7 : 1990 Clause 8	Tk Figure 98
SG	<i>S. Longman</i> 29/03/2017		

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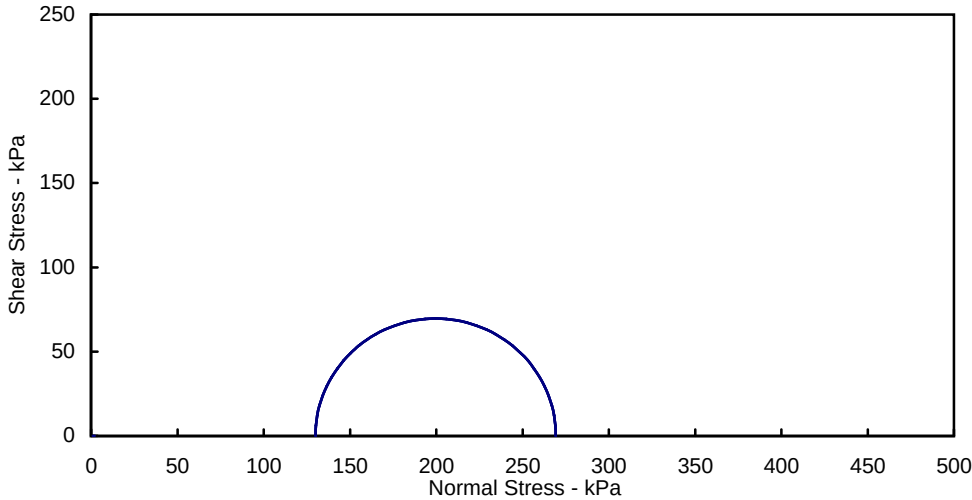
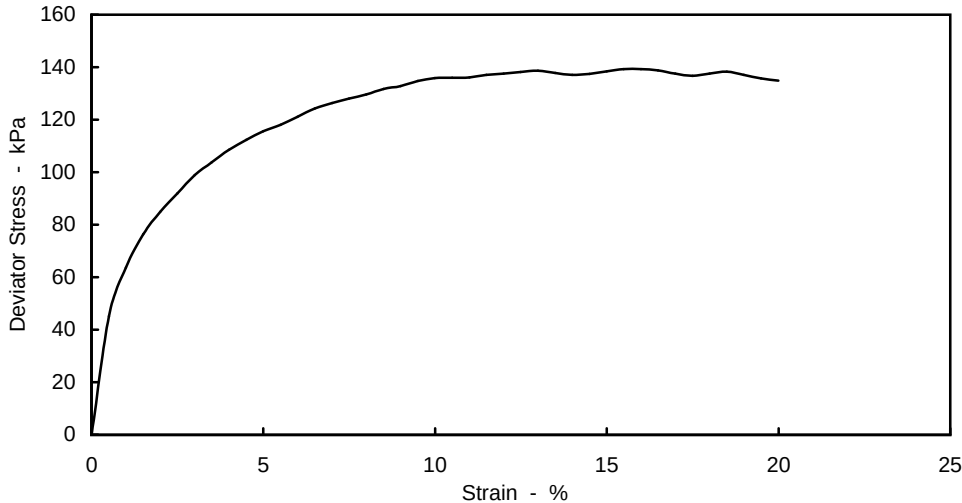
TERRA TEK SITE INVESTIGATION AND LABORATORY SERVICES		Site ROYAL MAIL MOUNT PLEASANT SORTING OFFICE	Contract No B20578
		Client Royal Mail Group Limited	Hole BH14
		Engineer	Sample Ref Depth (m) Sample Type 17.00 U
 			
Originator SG	Checked & Approved S. Langman 29/03/2017	Please note that these photographs are intended to show the failure mode, and do not necessarily show accurately the colouration of the soil.	
		Tk	Figure 98 Sheet 2 of 2

TERRA TEK SITE INVESTIGATION AND LABORATORY SERVICES	Site	ROYAL MAIL MOUNT PLEASANT SORTING OFFICE	Contract No.	B20578
	Client	Royal Mail Group Limited	Hole	BH15B
	Engineer		Sample Ref	
			Depth (m)	6.50
			Sample Type	U

Sample Details		Undisturbed		
Sample Condition				
Height	mm	200.1		
Diameter	mm	102.6		
Moisture Content	%	32		
Bulk Density	Mg/m³	1.91		
Dry Density	Mg/m³	1.45		
Test Details				
Membrane Thickness	mm	0.20		
Membrane Correction	kPa	0.63		
Rate of Axial Displacement	%/min	2.00		
Cell Pressure	kPa	130		
Strain at Failure	%	16.0		
Maximum Deviator Stress	kPa	139		
Shear Strength	kPa	70		
Mode of Failure			Brittle	
Non Engineering Description		Dark brown slightly sandy CLAY.		

Comments
 Undisturbed specimen taken 100mm below top of tube

Shear Strength Parameters		
C	n/a	kPa
Phi	n/a	°



Originator	Checked & Approved	UNCONSOLIDATED UNDRAINED SINGLE STAGE TRIAXIAL COMPRESSION BS 1377 : Part 7 : 1990 Clause 8	Figure 99 Sheet 1 of 2
SG	<i>S. Langren</i> 29/03/2017		

TERRA TEK SITE INVESTIGATION AND LABORATORY SERVICES	Site	ROYAL MAIL MOUNT PLEASANT SORTING OFFICE	Contract No	B20578
	Client	Royal Mail Group Limited	Hole	BH15B
	Engineer		Sample Ref	
			Depth (m)	6.50
			Sample Type	U





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SG	S. Langman 29/03/2017		

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TERRA TEK SITE INVESTIGATION AND LABORATORY SERVICES	Site	ROYAL MAIL MOUNT PLEASANT SORTING OFFICE		Contract No.	B20578	
	Client	Royal Mail Group Limited		Hole	BH15B	
	Engineer			Sample Ref	BH15B	
				Depth (m)	9.50	
				Sample Type	U	

Sample Details Sample Condition Undisturbed Height mm 199.8 Diameter mm 102.3 Moisture Content % 24 Bulk Density Mg/m³ 2.10 Dry Density Mg/m³ 1.69				Comments Undisturbed specimen taken 100mm below top of tube
Test Details Membrane Thickness mm 0.20 Membrane Correction kPa 0.74 Rate of Axial Displacement %/min 2.00 Cell Pressure kPa 190 Strain at Failure % 20.0 Maximum Deviator Stress kPa 198 Shear Strength kPa 99 Mode of Failure Brittle				
Non Engineering Description	Dark brown CLAY.			Shear Strength Parameters C n/a kPa Phi n/a °

Deviator Stress - kPa

Strain - %

Shear Stress - kPa

Normal Stress - kPa

Originator	Checked & Approved	UNCONSOLIDATED UNDRAINED SINGLE STAGE TRIAXIAL COMPRESSION BS 1377 : Part 7 : 1990 Clause 8	Tk Figure 100 Sheet 1 of 2
SG	S. Longman 29/03/2017		

TERRA TEK SITE INVESTIGATION AND LABORATORY SERVICES	Site	ROYAL MAIL MOUNT PLEASANT SORTING OFFICE	Contract No	B20578
	Client	Royal Mail Group Limited	Hole	BH15B
			Sample Ref	
			Depth (m)	9.50
	Engineer		Sample Type	U





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SG	S. Langman 29/03/2017		

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TERRA TEK SITE INVESTIGATION AND LABORATORY SERVICES	Site	ROYAL MAIL MOUNT PLEASANT SORTING OFFICE		Contract No.	B20578
	Client	Royal Mail Group Limited		Hole	BH15B
	Engineer			Sample Ref	
				Depth (m)	15.50
				Sample Type	U

Sample Details		Undisturbed		
Sample Condition				
Height	mm	200.3		
Diameter	mm	103.2		
Moisture Content	%	23		
Bulk Density	Mg/m³	2.09		
Dry Density	Mg/m³	1.70		
Test Details				
Membrane Thickness	mm	0.20		
Membrane Correction	kPa	0.13		
Rate of Axial Displacement	%/min	2.00		
Cell Pressure	kPa	310		
Strain at Failure	%	2.5		
Maximum Deviator Stress	kPa	352		
Shear Strength	kPa	176		
Mode of Failure			Brittle	
Non Engineering Description		Brown CLAY.		

Comments
 Undisturbed specimen taken 100mm below top of tube

Shear Strength Parameters

C	n/a	kPa
Phi	n/a	°

Deviator Stress - kPa

Strain - %

Shear Stress - kPa

Normal Stress - kPa

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SG	<i>S. Longren</i> 29/03/2017		

TERRA TEK SITE INVESTIGATION AND LABORATORY SERVICES		Site ROYAL MAIL MOUNT PLEASANT SORTING OFFICE		Contract No B20578	
		Client Royal Mail Group Limited		Hole BH15B	
		Engineer		Sample Ref Depth (m) 15.50 Sample Type U	




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SG	<i>S. Langman</i> 29/03/2017		

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TERRA TEK SITE INVESTIGATION AND LABORATORY SERVICES	Site	ROYAL MAIL MOUNT PLEASANT SORTING OFFICE		Contract No.	B20578	
	Client	Royal Mail Group Limited		Hole	BH15B	
	Engineer			Sample Ref		
				Depth (m)	23.00	
				Sample Type	U	

Sample Details		Undisturbed		
Sample Condition				
Height	mm	200.0		
Diameter	mm	102.5		
Moisture Content	%	24		
Bulk Density	Mg/m³	2.05		
Dry Density	Mg/m³	1.66		
Test Details				
Membrane Thickness	mm	0.20		
Membrane Correction	kPa	0.29		
Rate of Axial Displacement	%/min	2.00		
Cell Pressure	kPa	460		
Strain at Failure	%	6.0		
Maximum Deviator Stress	kPa	370		
Shear Strength	kPa	185		
Mode of Failure			Brittle	
Non Engineering Description		Dark brown CLAY.		

Comments		
Undisturbed specimen taken 100mm below top of tube		

Shear Strength Parameters		
C	n/a	kPa
Phi	n/a	°

Deviator Stress - kPa

Strain - %

Shear Stress - kPa

Normal Stress - kPa

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SG	S. Longren 29/03/2017		

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TERRA TEK SITE INVESTIGATION AND LABORATORY SERVICES	Site	ROYAL MAIL MOUNT PLEASANT SORTING OFFICE	Contract No	B20578
	Client	Royal Mail Group Limited	Hole	BH15B
	Engineer		Sample Ref	
			Depth (m)	23.00
			Sample Type	U



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SG	<i>S. Langman</i> 29/03/2017		

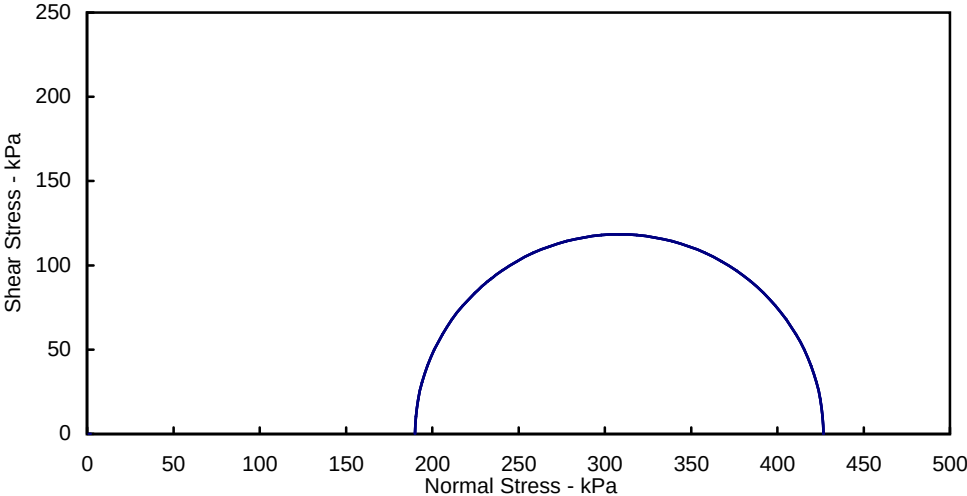
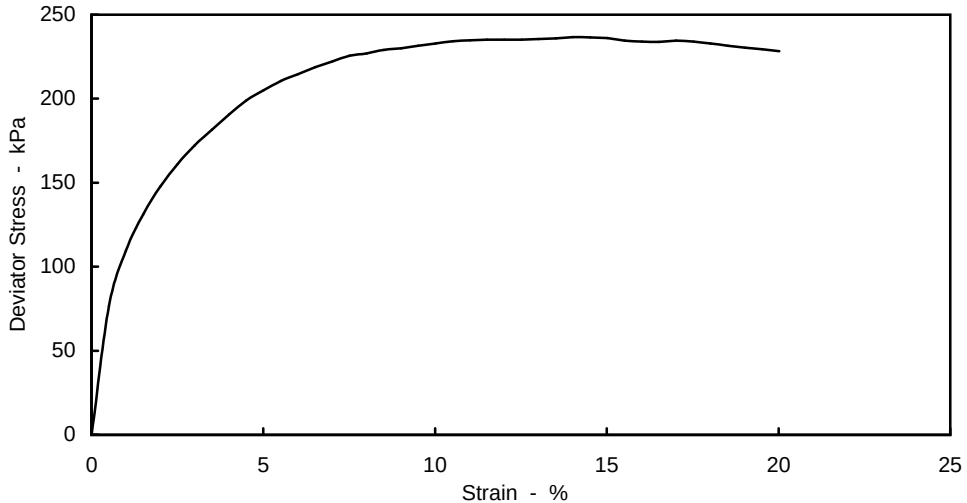
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TERRA TEK SITE INVESTIGATION AND LABORATORY SERVICES	Site	ROYAL MAIL MOUNT PLEASANT SORTING OFFICE	Contract No.	B20578
	Client	Royal Mail Group Limited	Hole	BH19
	Engineer		Sample Ref	
			Depth (m)	9.50
			Sample Type	U

Sample Details		Undisturbed		
Sample Condition				
Height	mm	199.8		
Diameter	mm	102.6		
Moisture Content	%	26		
Bulk Density	Mg/m³	2.00		
Dry Density	Mg/m³	1.60		
Test Details				
Membrane Thickness	mm	0.20		
Membrane Correction	kPa	0.57		
Rate of Axial Displacement	%/min	1.50		
Cell Pressure	kPa	190		
Strain at Failure	%	14.0		
Maximum Deviator Stress	kPa	237		
Shear Strength	kPa	118		
Mode of Failure			Brittle	
Non Engineering Description		Dark brown CLAY.		

Comments
 Undisturbed specimen taken 100mm below top of tube

Shear Strength Parameters		
C	n/a	kPa
Phi	n/a	°



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KP/TE/ME	<i>S. Longman</i> 29/03/2017		

TERRA TEK SITE INVESTIGATION AND LABORATORY SERVICES		Site ROYAL MAIL MOUNT PLEASANT SORTING OFFICE		Contract No B20578	
		Client Royal Mail Group Limited		Hole BH19	
		Engineer		Sample Ref Depth (m) Sample Type 9.50 U	
 					
Originator KP/TE/ME		Checked & Approved S. Langman 29/03/2017		Please note that these photographs are intended to show the failure mode, and do not necessarily show accurately the colouration of the soil. Tk Figure 103 Sheet 2 of 2	

TERRA TEK SITE INVESTIGATION AND LABORATORY SERVICES	Site	ROYAL MAIL MOUNT PLEASANT SORTING OFFICE		Contract No.	B20578	
	Client	Royal Mail Group Limited		Hole	BH19	
	Engineer			Sample Ref		
				Depth (m)	23.00	
				Sample Type	U	

Sample Details		Undisturbed		Comments Undisturbed specimen taken 100mm below top of tube	
Sample Condition					
Height	mm	199.9			
Diameter	mm	102.3			
Moisture Content	%	22			
Bulk Density	Mg/m³	2.09			
Dry Density	Mg/m³	1.72			
Test Details					
Membrane Thickness	mm	0.20			
Membrane Correction	kPa	0.25			
Rate of Axial Displacement	%/min	2.00			
Cell Pressure	kPa	460			
Strain at Failure	%	5.0			
Maximum Deviator Stress	kPa	393			
Shear Strength	kPa	196			
Mode of Failure			Brittle		
Non Engineering Description		Dark brown CLAY.		Shear Strength Parameters	
				C	n/a kPa
				Phi	n/a °

Deviator Stress - kPa

Strain - %

Shear Stress - kPa

Normal Stress - kPa

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SG	S. Longren 29/03/2017		

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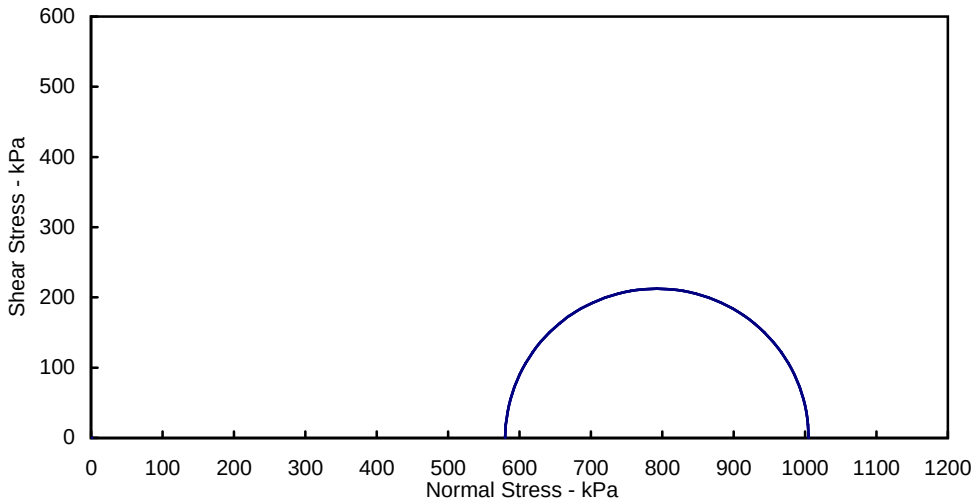
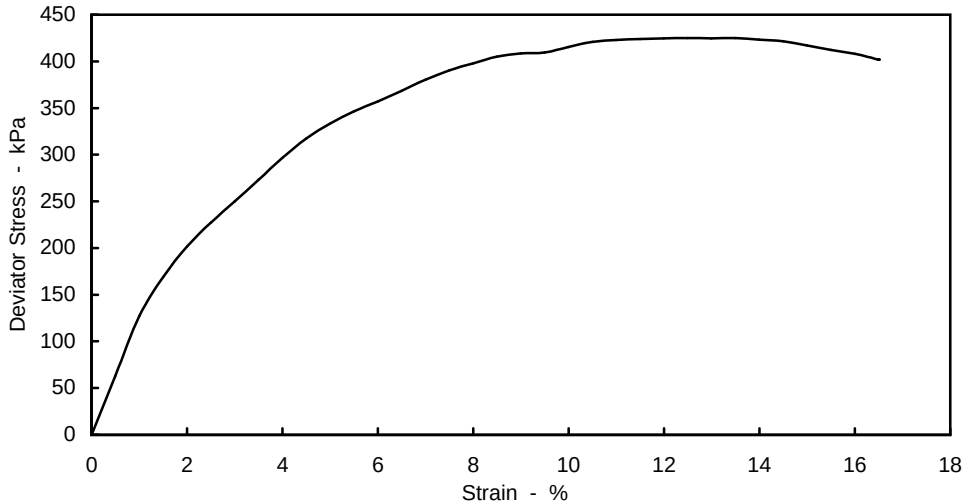
TERRA TEK SITE INVESTIGATION AND LABORATORY SERVICES		Site ROYAL MAIL MOUNT PLEASANT SORTING OFFICE	Contract No B20578
		Client Royal Mail Group Limited	Hole BH19
		Engineer	Sample Ref Depth (m) Sample Type 23.00 U
 			
Originator SG	Checked & Approved S. Langman 29/03/2017	Please note that these photographs are intended to show the failure mode, and do not necessarily show accurately the colouration of the soil.	
		Tk	Figure 104 Sheet 2 of 2

TERRA TEK SITE INVESTIGATION AND LABORATORY SERVICES	Site	ROYAL MAIL MOUNT PLEASANT SORTING OFFICE	Contract No.	B20578
	Client	Royal Mail Group Limited	Hole	BH19
	Engineer		Sample Ref	
			Depth (m)	29.00
			Sample Type	U

Sample Details		Undisturbed		
Sample Condition				
Height	mm	200.1		
Diameter	mm	102.5		
Moisture Content	%	21		
Bulk Density	Mg/m³	2.09		
Dry Density	Mg/m³	1.73		
Test Details				
Membrane Thickness	mm	0.20		
Membrane Correction	kPa	0.55		
Rate of Axial Displacement	%/min	1.50		
Cell Pressure	kPa	580		
Strain at Failure	%	13.5		
Maximum Deviator Stress	kPa	425		
Shear Strength	kPa	213		
Mode of Failure			Brittle	
Non Engineering Description		Brown silty CLAY.		

Comments
 Undisturbed specimen taken 100mm below top of tube

Shear Strength Parameters		
C	n/a	kPa
Phi	n/a	°



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LG/ME	<i>S. Longman</i> 29/03/2017		

TERRA TEK SITE INVESTIGATION AND LABORATORY SERVICES		Site ROYAL MAIL MOUNT PLEASANT SORTING OFFICE	Contract No B20578
		Client Royal Mail Group Limited	Hole BH19
		Engineer	Sample Ref Depth (m) 29.00 Sample Type U




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Site	ROYAL MAIL MOUNT PLEASANT SORTING OFFICE	Contract No.	B20578
Client	Royal Mail Group Limited	Hole	BH20
Engineer		Sample Ref	
		Depth (m)	9.00-9.45
		Sample Type	U

Sample Details

Sample Condition		Undisturbed		
Height	mm	199.8		
Diameter	mm	102.7		
Moisture Content	%	25		
Bulk Density	Mg/m ³	2.07		
Dry Density	Mg/m ³	1.66		

Test Details

Membrane Thickness	mm	0.20		
Membrane Correction	kPa	0.73		
Rate of Axial Displacement	%/min	2.00		
Cell Pressure	kPa	189		
Strain at Failure	%	19.5		
Maximum Deviator Stress	kPa	150		
Shear Strength	kPa	75		
Mode of Failure			Plastic	

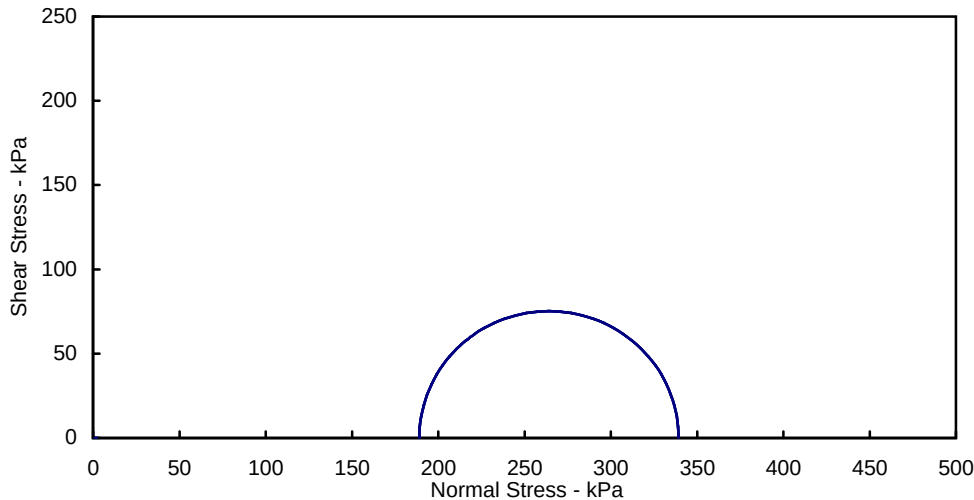
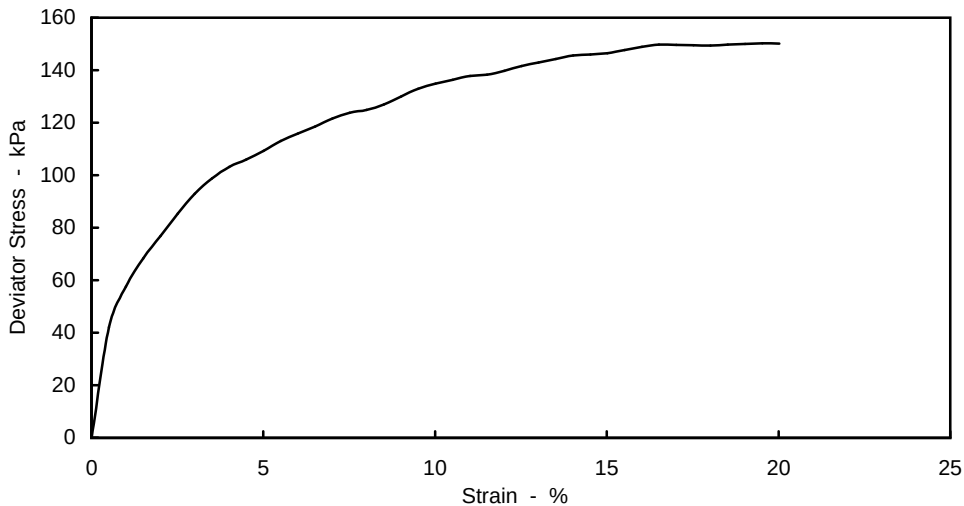
Non Engineering Description	Brown CLAY.
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Comments

Undisturbed specimen taken 100mm below top of tube

Shear Strength Parameters

C	n/a	kPa
Phi	n/a	°



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SG	S. Longman 29/03/2017		
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TERRA TEK SITE INVESTIGATION AND LABORATORY SERVICES		Site ROYAL MAIL MOUNT PLEASANT SORTING OFFICE	Contract No B20578
		Client Royal Mail Group Limited	Hole BH20
		Engineer	Sample Ref Depth (m) Sample Type 9.00-9.45 U
 			
Originator	Checked & Approved	Please note that these photographs are intended to show the failure mode, and do not necessarily show accurately the colouration of the soil.	
SG	S. Langman 29/03/2017		
		Tk	Figure 106 Sheet 2 of 2

TERRA TEK

SITE INVESTIGATION AND LABORATORY SERVICES

Site

ROYAL MAIL MOUNT PLEASANT SORTING
OFFICE

Client

Royal Mail Group Limited

Engineer

Contract No. **B20578**

Hole

BH20

Sample Ref

Depth (m)

15.00-15.45

Sample Type

U

Sample Details

Sample Condition

Undisturbed

Height

mm

199.9

Diameter

mm

102.5

Moisture Content

%

29

Bulk Density

Mg/m³

2.04

Dry Density

Mg/m³

1.58

CommentsUndisturbed specimen taken
100mm below top of tube**Test Details**

Membrane Thickness

mm

0.20

Membrane Correction

kPa

0.23

Rate of Axial Displacement

%/min

1.50

Cell Pressure

kPa

309

Strain at Failure

%

4.5

Maximum Deviator Stress

kPa

195

Shear Strength

kPa

97

Mode of Failure

Brittle

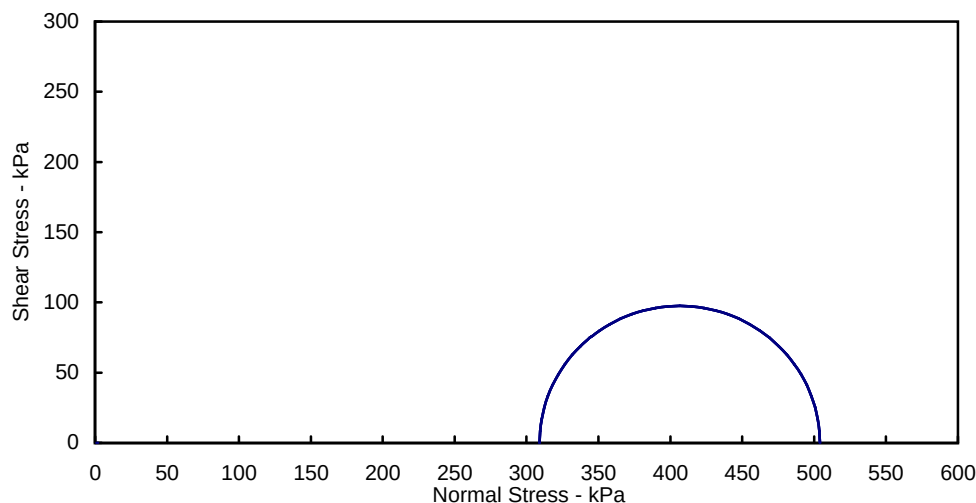
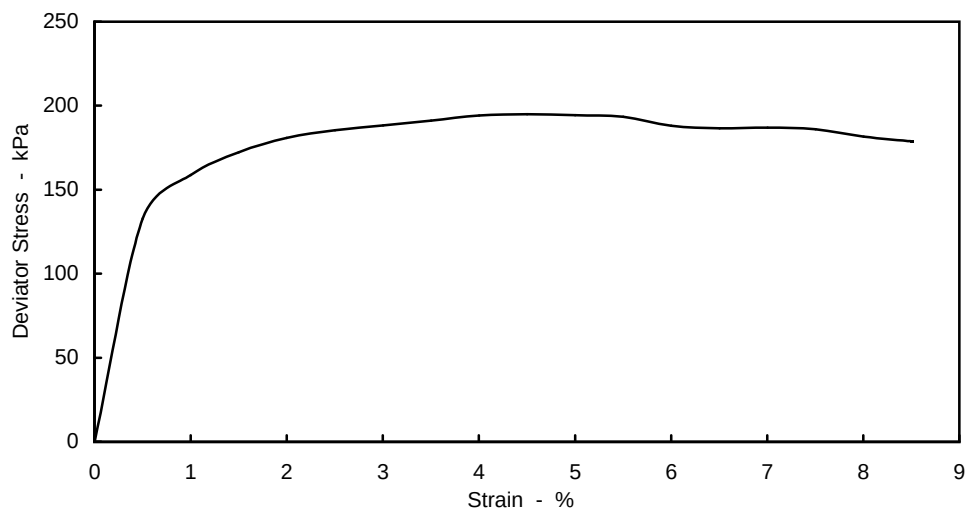
Non Engineering Description

Dark brown CLAY.

Shear Strength Parameters

C n/a kPa

Phi n/a °



Originator

Checked &
Approved

LG/ME

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29/03/2017**UNCONSOLIDATED UNDRAINED SINGLE
STAGE TRIAXIAL COMPRESSION**

BS 1377 : Part 7 : 1990 Clause 8

TTk

Figure 107

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TERRA TEK SITE INVESTIGATION AND LABORATORY SERVICES	Site	ROYAL MAIL MOUNT PLEASANT SORTING OFFICE	Contract No	B20578
	Client	Royal Mail Group Limited	Hole	BH20
			Sample Ref	
			Depth (m)	15.00-15.45
	Engineer		Sample Type	U





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LG/ME	S. Langman 29/03/2017		

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TERRA TEK SITE INVESTIGATION AND LABORATORY SERVICES	Site ROYAL MAIL MOUNT PLEASANT SORTING OFFICE	Contract No. B20578
	Client Royal Mail Group Limited	Hole BH20
	Engineer	Sample Ref Depth (m) Sample Type U

Sample Details

Sample Condition	Undisturbed		
Height	mm	200.0	
Diameter	mm	102.7	
Moisture Content	%	25	
Bulk Density	Mg/m ³	2.01	
Dry Density	Mg/m ³	1.61	

Test Details

Membrane Thickness	mm	0.20	
Membrane Correction	kPa	0.33	
Rate of Axial Displacement	%/min	2.00	
Cell Pressure	kPa	429	
Strain at Failure	%	7.0	
Maximum Deviator Stress	kPa	310	
Shear Strength	kPa	155	
Mode of Failure	Brittle		

Comments

Undisturbed specimen taken 100mm below top of tube

Shear Strength Parameters

C	n/a	kPa
Phi	n/a	°

Non Engineering Description

Dark grey brown CLAY.

Deviator Stress - kPa

Strain - %

Shear Stress - kPa

Normal Stress - kPa

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SG	<i>S. Longman</i> 29/03/2017		

TERRA TEK SITE INVESTIGATION AND LABORATORY SERVICES		Site ROYAL MAIL MOUNT PLEASANT SORTING OFFICE	Contract No B20578
		Client Royal Mail Group Limited	Hole BH20
		Engineer	Sample Ref Depth (m) Sample Type 21.00-21.45 U
			
			
Originator SG	Checked & Approved S. Langman 29/03/2017	Please note that these photographs are intended to show the failure mode, and do not necessarily show accurately the colouration of the soil.	
		Tk	Figure 108 Sheet 2 of 2

TERRA TEK SITE INVESTIGATION AND LABORATORY SERVICES	Site ROYAL MAIL MOUNT PLEASANT SORTING OFFICE	Contract No. B20578
	Client Royal Mail Group Limited	Hole BH20
	Engineer	Sample Ref Depth (m) Sample Type 25.00-25.45 U

Sample Details

Sample Condition	Undisturbed		
Height	mm	200.3	
Diameter	mm	102.2	
Moisture Content	%	15	
Bulk Density	Mg/m³	2.08	
Dry Density	Mg/m³	1.81	

Test Details

Membrane Thickness	mm	0.20	
Membrane Correction	kPa	0.74	
Rate of Axial Displacement	%/min	1.50	
Cell Pressure	kPa	509	
Strain at Failure	%	20.0	
Maximum Deviator Stress	kPa	464	
Shear Strength	kPa	232	
Mode of Failure	Brittle		

Non Engineering Description

Brown slightly sandy CLAY.

Comments

Undisturbed specimen taken 100mm below top of tube

Shear Strength Parameters

C	n/a	kPa
Phi	n/a	°

Deviator Stress - kPa

500

450

400

350

300

250

200

150

100

50

0

Strain - %

0

5

10

15

20

25

Shear Stress - kPa

600

500

400

300

200

100

0

Normal Stress - kPa

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

Originator SG	Checked & Approved S. Longman 29/03/2017	UNCONSOLIDATED UNDRAINED SINGLE STAGE TRIAXIAL COMPRESSION BS 1377 : Part 7 : 1990 Clause 8	Tk Figure 109 Sheet 1 of 2
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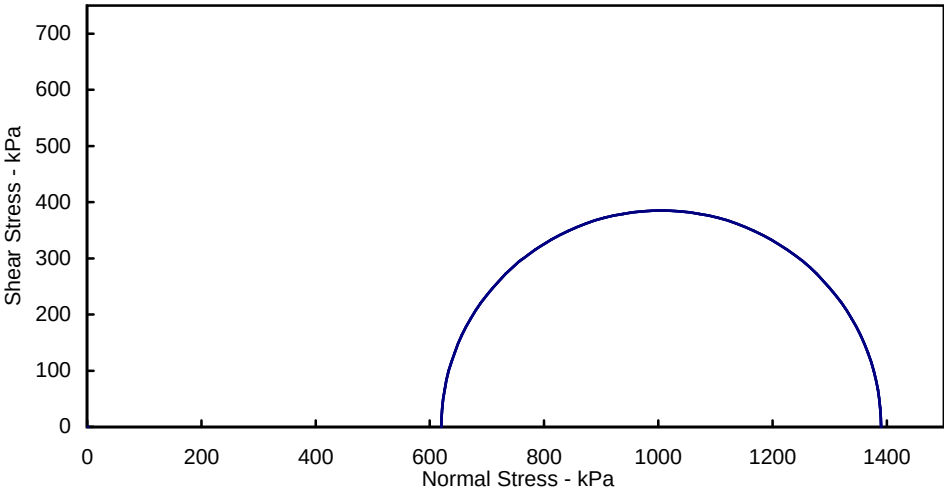
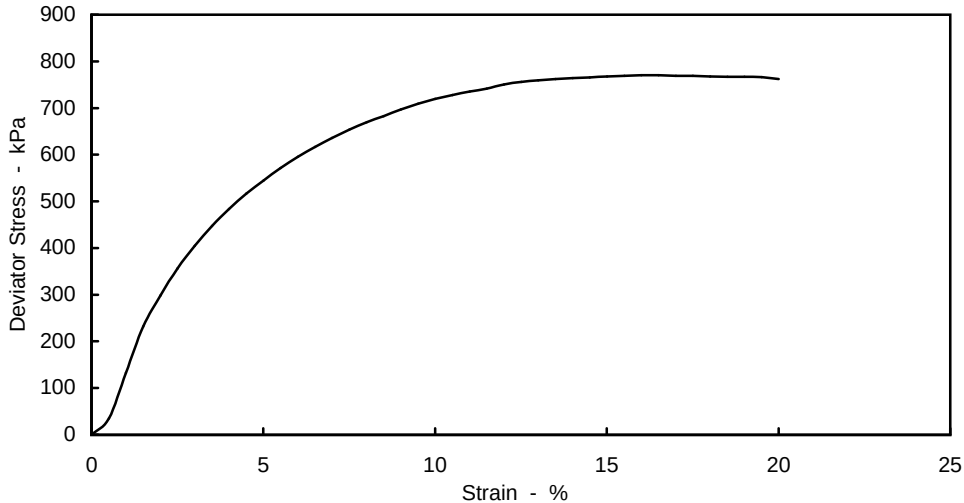
TERRA TEK SITE INVESTIGATION AND LABORATORY SERVICES		Site ROYAL MAIL MOUNT PLEASANT SORTING OFFICE	Contract No B20578
		Client Royal Mail Group Limited	Hole BH20
		Engineer	Sample Ref Depth (m) Sample Type 25.00-25.45 U
			
			
Originator SG	Checked & Approved S. Langman 29/03/2017	Please note that these photographs are intended to show the failure mode, and do not necessarily show accurately the colouration of the soil.	
		Tk	Figure 109 Sheet 2 of 2

TERRA TEK SITE INVESTIGATION AND LABORATORY SERVICES	Site	ROYAL MAIL MOUNT PLEASANT SORTING OFFICE	Contract No.	B20578
	Client	Royal Mail Group Limited	Hole	BH20
	Engineer		Sample Ref	
			Depth (m)	31.00
			Sample Type	U

Sample Details		Undisturbed		
Sample Condition				
Height	mm	199.9		
Diameter	mm	102.5		
Moisture Content	%	14		
Bulk Density	Mg/m ³	2.08		
Dry Density	Mg/m ³	1.83		
Test Details				
Membrane Thickness	mm	0.20		
Membrane Correction	kPa	0.63		
Rate of Axial Displacement	%/min	2.00		
Cell Pressure	kPa	620		
Strain at Failure	%	16.0		
Maximum Deviator Stress	kPa	770		
Shear Strength	kPa	385		
Mode of Failure			Plastic	
Non Engineering Description		Dark brown sandy CLAY.		

Comments
 Undisturbed specimen taken 100mm below top of tube

Shear Strength Parameters		
C	n/a	kPa
Phi	n/a	°



Originator	Checked & Approved	UNCONSOLIDATED UNDRAINED SINGLE STAGE TRIAXIAL COMPRESSION BS 1377 : Part 7 : 1990 Clause 8	Figure 110 Sheet 1 of 2
SG	<i>S. Longman</i> 29/03/2017		