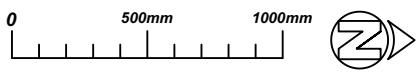
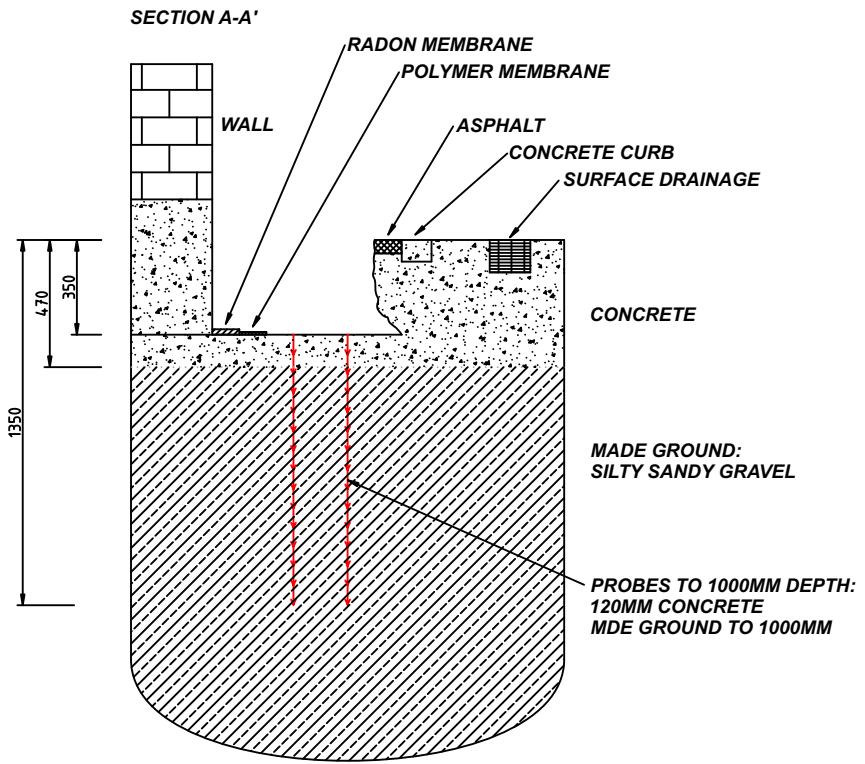
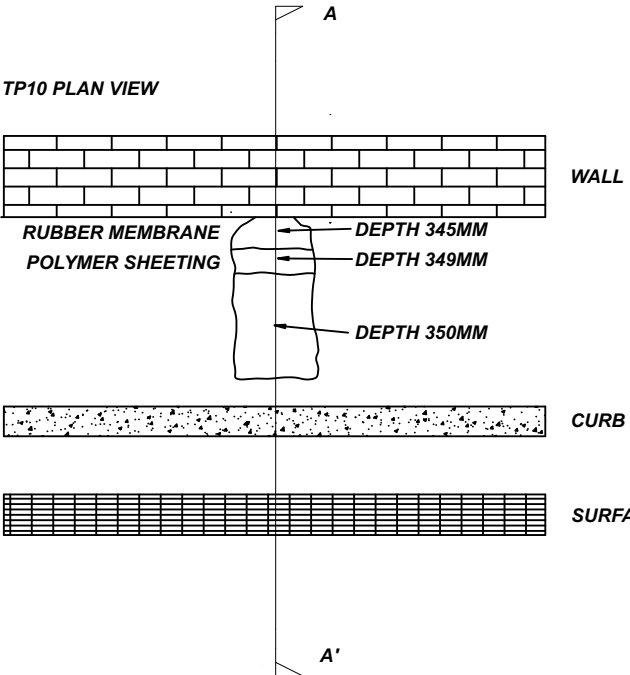


TP10 PHOTOGRAPH



TP10 PLAN VIEW



Rev	Date	By	Chkd	Appd
00	14/10/21	JS	WM	RB

 **A2 Site Investigation**

One Westminster Bridge Rd
London SE1 7XW
+44(0)20 7620 2868
www.a2-si.com

Client
John Sisk & Son Ltd

Project Title
Great Ormond Street
Hospital

Drawing Title
Trial Pit 10 Sketch

A2SI Project Number 12921	Rev 00
------------------------------	-----------

Associated Document
Drawing Number
12921-A2SI-XX-XX-DR-Y-0010-00



Appendix C: Geotechnical Laboratory Testing Results



Laboratory Report



Contract Number: 55496

Client Ref: **12921**Report Date: **23-09-2021**

Client PO:

Client **A2 Site Investigation Limited**
Broom House, 39/43 London Road,
Hadleigh, Benfleet,
Essex
SS7 2QL

Contract Title: **Great Ormond Street Hospital**
For the attention of: **Richard Beaumont**

Date Received: **01-09-2021**Date Completed: **23-09-2021**

Test Description	Qty
Samples Received - @ Non Accredited Test	38
Moisture Content BS 1377:1990 - Part 2 : 3.2 - * UKAS	14
4 Point Liquid & Plastic Limit BS 1377:1990 - Part 2 : 4.3 & 5.3 - * UKAS	14
PSD Wet Sieve method BS 1377:1990 - Part 2 : 9.2 - * UKAS	5
Quick Undrained Triaxial Compression test - single specimen at one confining pressure (100mm or 38mm diameter) BS 1377:1990 - Part 7 : 8 - * UKAS	13
Disposal of samples for job	1

Notes: Observations and Interpretations are outside the UKAS Accreditation

* - denotes test included in laboratory scope of accreditation

- denotes test carried out by approved contractor

@ - denotes non accredited tests

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved Signatories:

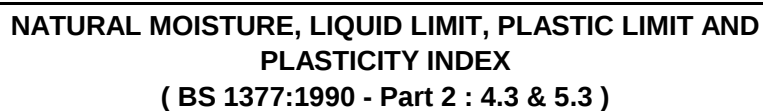
Emma Sharp (Business Support Manager) - Paul Evans (Director) - Richard John (Quality/Technical Manager)

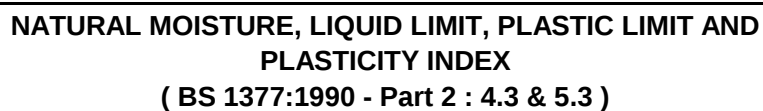
Shaun Jones (Laboratory manager) - Shaun Thomas (Site Manager) - Wayne Honey (Quality Assistant / Administrator / Health and Safety Coordinator)

GEO Site & Testing Services Ltd

Unit 3-4, Heol Aur, Dafen Ind Estate, Dafen, Llanelli, Carmarthenshire SA14 8QN

Tel: 01554 784040 Fax: 01554 784041 info@gstl.co.uk gstl.co.uk

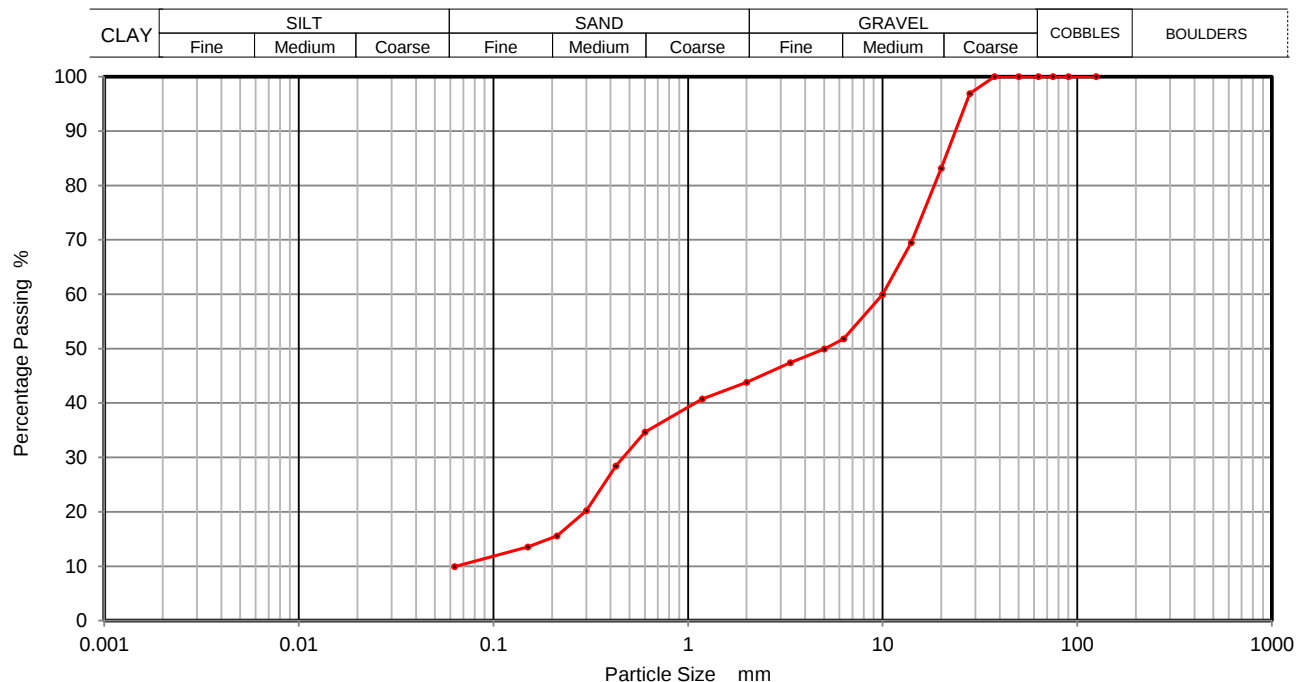
[illegible]





**PARTICLE SIZE DISTRIBUTION
BS 1377 Part 2:1990
Wet Sieve, Clause 9.2**

Contract Number	55496	
	Borehole/Pit No.	
BH02		
Site Name	Great Ormond Street Hospital	
Sample No.		
Soil Description	Brown silty fine to coarse sandy GRAVEL.	
Depth Top	0.50	
Depth Base	1.00	
Date Tested	20/09/2021	
Sample Type	B	



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	97		
20	83		
14	69		
10	60		
6.3	52		
5	50		
3.35	47		
2	44		
1.18	41		
0.6	35		
0.425	28		
0.3	20		
0.212	16		
0.15	14		
0.063	10		

Sample Proportions	% dry mass
Cobbles	0
Gravel	56
Sand	34
Silt and Clay	10

Remarks
Preparation and testing in accordance with BS1377 unless noted below

Operator	Checked	22/09/2021	Richard John	
David	Approved	23/09/2021	Paul Evans	





PARTICLE SIZE DISTRIBUTION
BS 1377 Part 2:1990
Wet Sieve, Clause 9.2

Contract Number 55496

Borehole/Pit No. BH02

Site Name Great Ormond Street Hospital

Sample No.

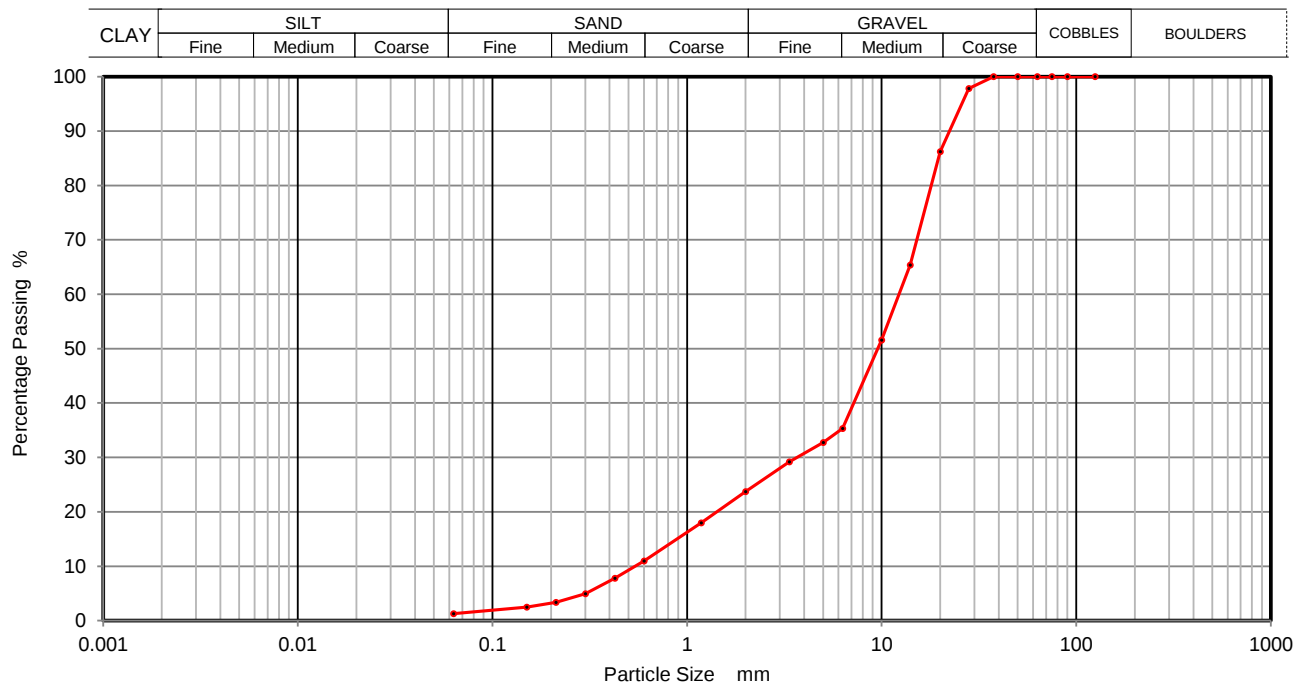
Soil Description Brown silty fine to medium sandy fine to coarse GRAVEL.

Depth Top 1.50

Depth Base 2.00

Date Tested 20/09/2021

Sample Type B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	98		
20	86		
14	65		
10	52		
6.3	35		
5	33		
3.35	29		
2	24		
1.18	18		
0.6	11		
0.425	8		
0.3	5		
0.212	3		
0.15	2		
0.063	1		

Sample Proportions	% dry mass
Cobbles	0
Gravel	76
Sand	23
Silt and Clay	1

Remarks

Preparation and testing in accordance with BS1377 unless noted below

Operator	Checked	22/09/2021	Richard John	
David	Approved	23/09/2021	Paul Evans	





PARTICLE SIZE DISTRIBUTION
BS 1377 Part 2:1990
Wet Sieve, Clause 9.2

Contract Number 55496

Borehole/Pit No. BH02

Site Name Great Ormond Street Hospital

Sample No.

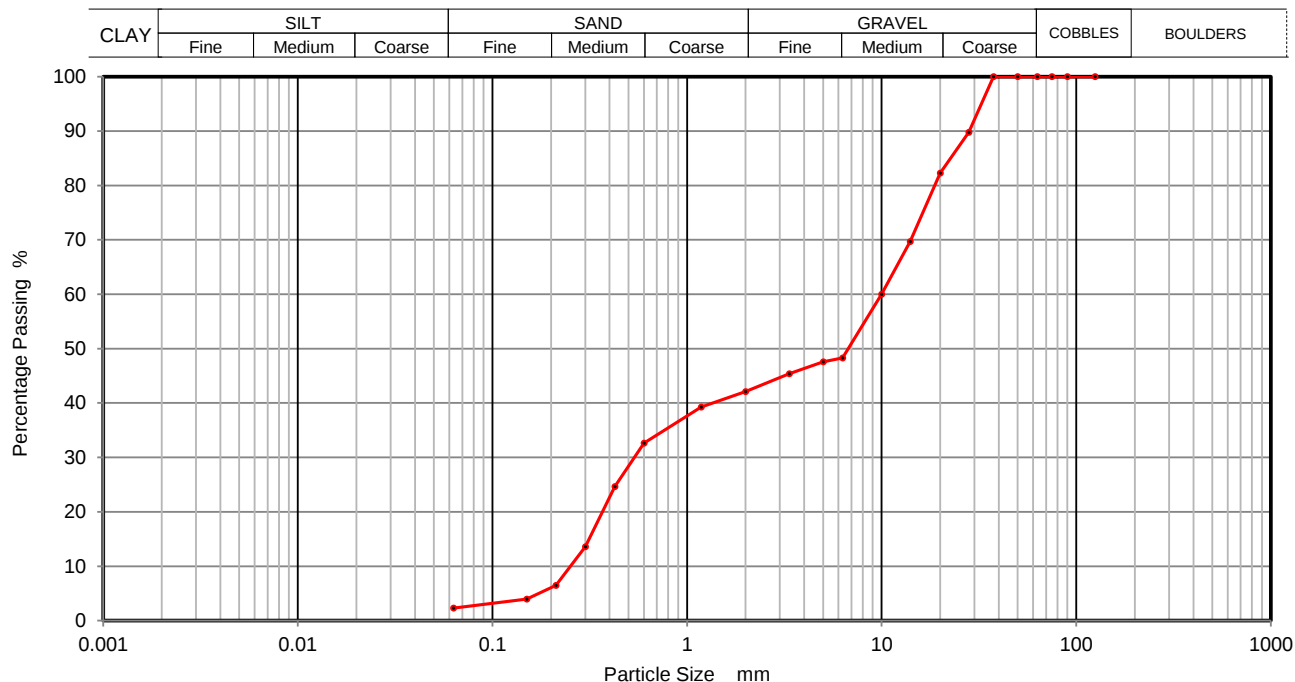
Soil Description Brown silty fine to coarse sandy GRAVEL.

Depth Top 2.50

Depth Base 3.00

Date Tested 20/09/2021

Sample Type B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	90		
20	82		
14	70		
10	60		
6.3	48		
5	48		
3.35	45		
2	42		
1.18	39		
0.6	33		
0.425	25		
0.3	14		
0.212	6		
0.15	4		
0.063	2		

Sample Proportions	% dry mass
Cobbles	0
Gravel	58
Sand	40
Silt and Clay	2

Remarks

Preparation and testing in accordance with BS1377 unless noted below

Operator	Checked	22/09/2021	Richard John	
David	Approved	23/09/2021	Paul Evans	





PARTICLE SIZE DISTRIBUTION
BS 1377 Part 2:1990
Wet Sieve, Clause 9.2

Contract Number 55496

Borehole/Pit No. BH03

Site Name Great Ormond Street Hospital

Sample No.

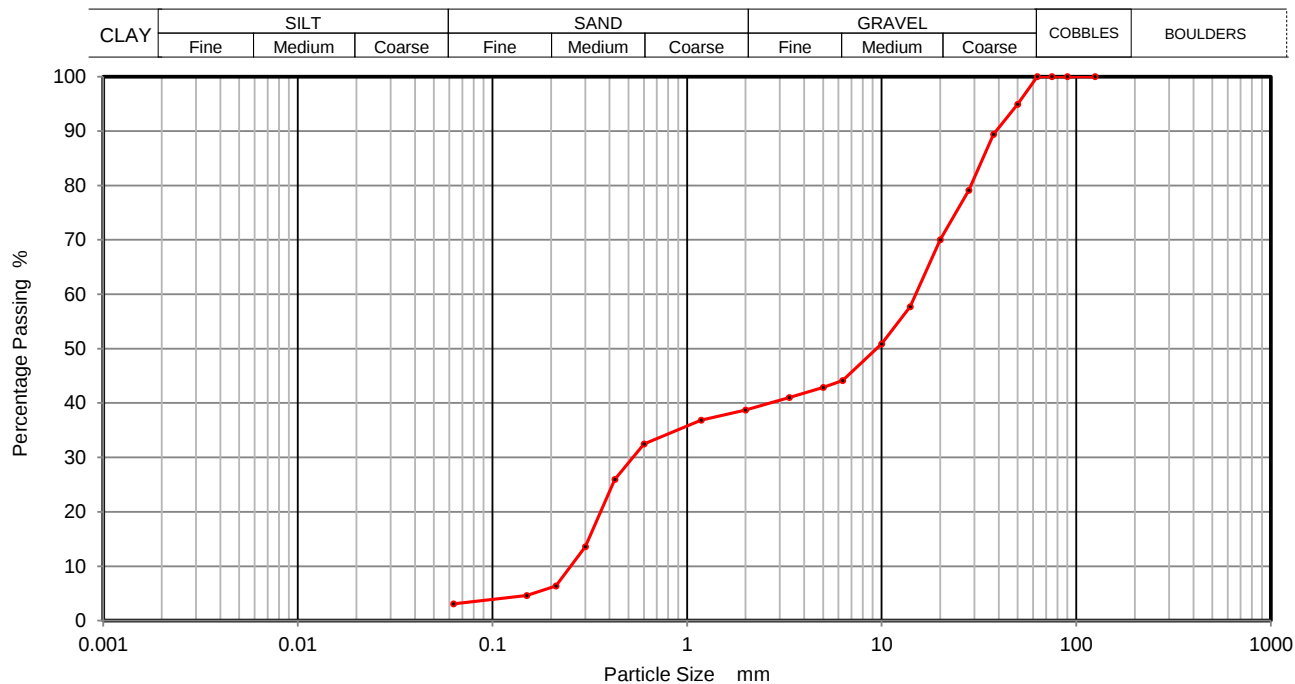
Soil Description Brown silty fine to coarse sandy GRAVEL.

Depth Top 0.30

Depth Base 0.50

Date Tested 20/09/2021

Sample Type B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	95		
37.5	89		
28	79		
20	70		
14	58		
10	51		
6.3	44		
5	43		
3.35	41		
2	39		
1.18	37		
0.6	32		
0.425	26		
0.3	14		
0.212	6		
0.15	5		
0.063	3		

Sample Proportions	% dry mass
Cobbles	0
Gravel	61
Sand	36
Silt and Clay	3

Remarks

Preparation and testing in accordance with BS1377 unless noted below

Operator	Checked	22/09/2021	Richard John	
David	Approved	23/09/2021	Paul Evans	



2788



PARTICLE SIZE DISTRIBUTION
BS 1377 Part 2:1990
Wet Sieve, Clause 9.2

Contract Number 55496

Borehole/Pit No. BH03

Site Name Great Ormond Street Hospital

Sample No.

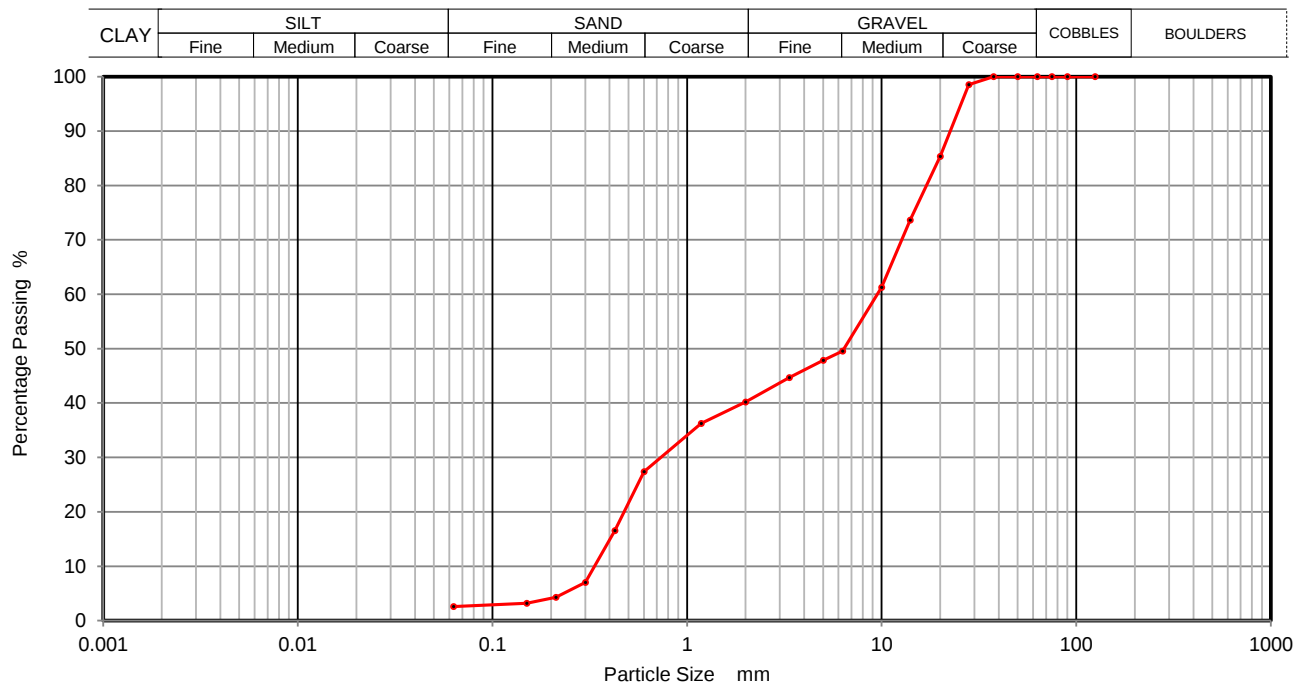
Soil Description Brown silty fine to coarse sandy GRAVEL.

Depth Top 1.50

Depth Base 2.00

Date Tested 20/09/2021

Sample Type B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	99		
20	85		
14	74		
10	61		
6.3	50		
5	48		
3.35	45		
2	40		
1.18	36		
0.6	27		
0.425	17		
0.3	7		
0.212	4		
0.15	3		
0.063	3		

Sample Proportions	% dry mass
Cobbles	0
Gravel	60
Sand	37
Silt and Clay	3

Remarks

Preparation and testing in accordance with BS1377 unless noted below

Operator	Checked	22/09/2021	Richard John	
David	Approved	23/09/2021	Paul Evans	



2788



Single Stage Unconsolidated-Undrained Triaxial Test
BS 1377 : 1990 Part 7 : 8

Contract Number 55496

Borehole/Pit No. BH02

Site Name Great Ormond Street Hospital

Sample No.

Soil Description Greyish brown gravelly silty CLAY.

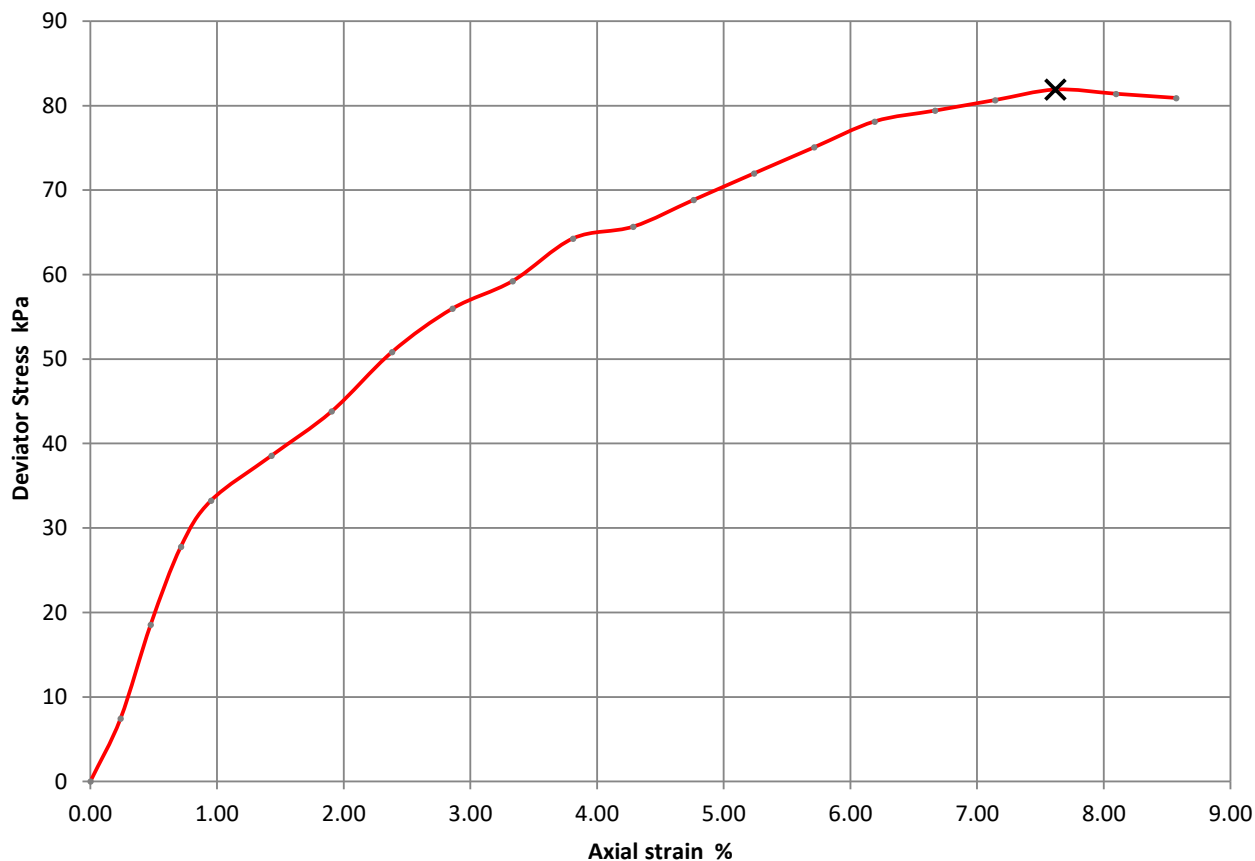
Depth Top (m)

Depth Base (m) 3.50

Date Tested 08/09/2021

Sample Type 3.95

Technician Daniel B



Moisture Content (%)	30
Bulk Density (Mg/m ³)	1.90
Dry Density (Mg/m ³)	1.46
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	74.5
Deviator Stress (kPa)	82
Undrained Shear Strength (kPa)	41
Failure Strain (%)	8
Mode Of Failure	Brittle
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

Specimen Post Test



Sample Split



Checked	22/09/2021	Richard John	
Approved	23/09/2021	Paul Evans	





Single Stage Unconsolidated-Undrained Triaxial Test
BS 1377 : 1990 Part 7 : 8

Contract Number 55496

Borehole/Pit No. BH02

Site Name Great Ormond Street Hospital

Sample No.

Soil Description Greyish brown gravelly silty CLAY.

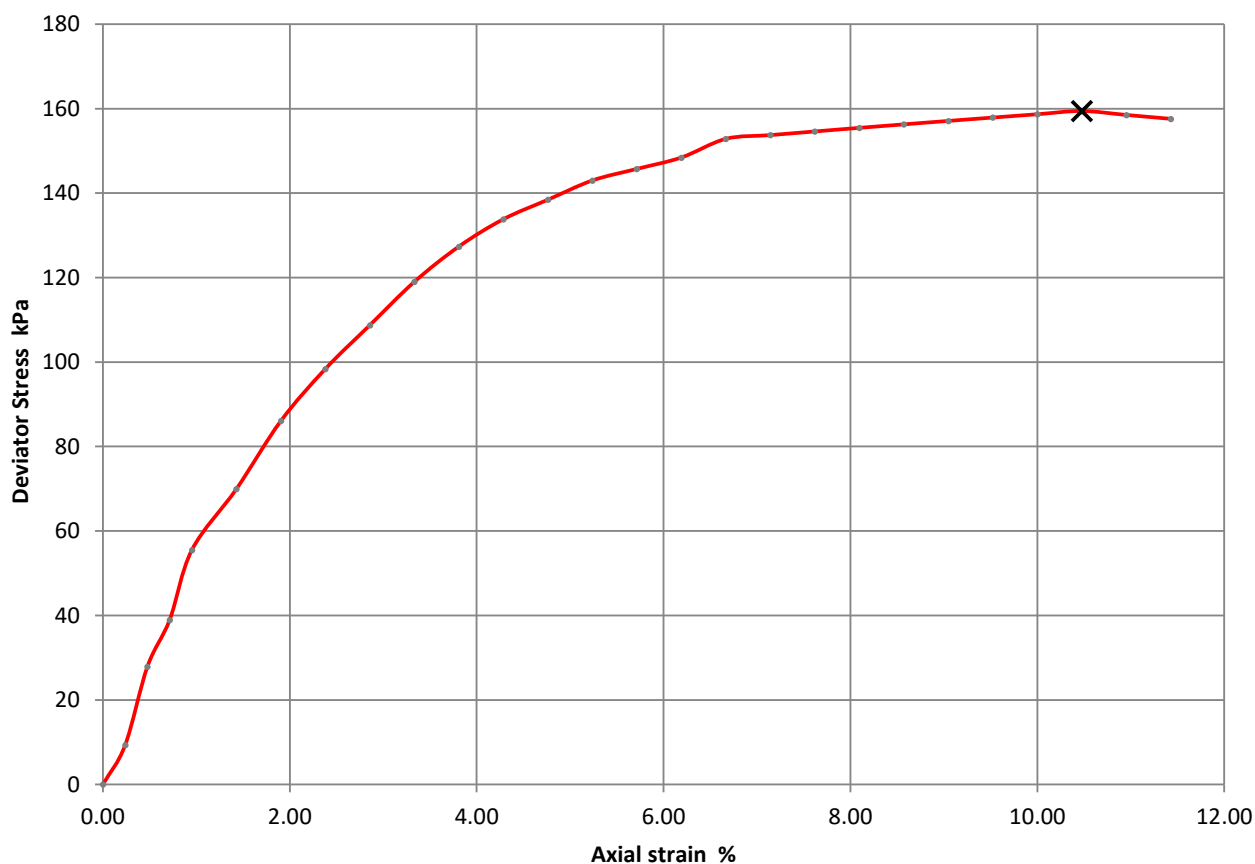
Depth Top (m)

Depth Base (m) 6.00

Date Tested 08/09/2021

Sample Type 6.45

Technician Daniel B



Moisture Content (%)	33
Bulk Density (Mg/m ³)	1.92
Dry Density (Mg/m ³)	1.45
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	125
Deviator Stress (kPa)	159
Undrained Shear Strength (kPa)	80
Failure Strain (%)	10
Mode Of Failure	Brittle
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

Specimen Post Test



Sample Split



Checked	22/09/2021	Richard John	
Approved	23/09/2021	Paul Evans	





Single Stage Unconsolidated-Undrained Triaxial Test
BS 1377 : 1990 Part 7 : 8

Contract Number 55496

Borehole/Pit No. BH02

Site Name Great Ormond Street Hospital

Sample No.

Soil Description Greyish brown silty CLAY.

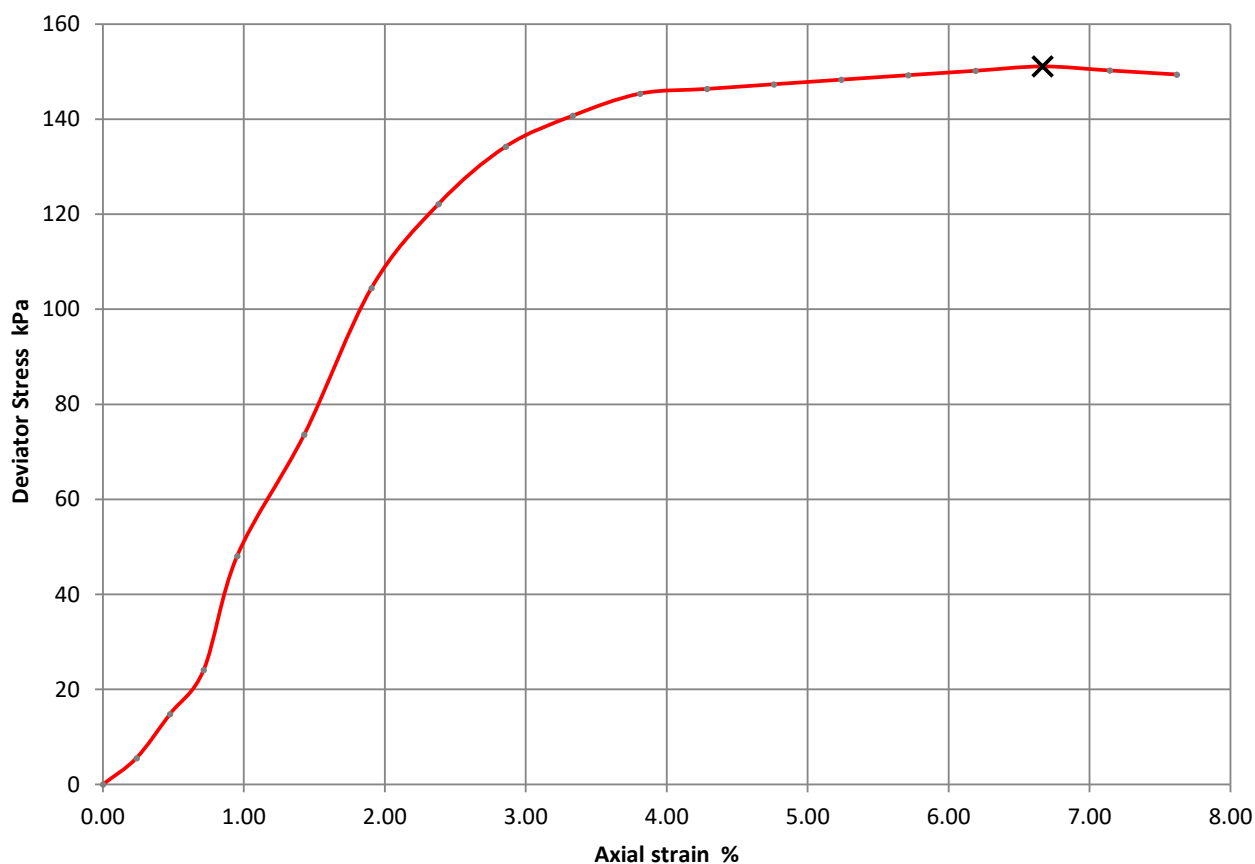
Depth Top (m)

Depth Base (m) 9.00

Date Tested 08/09/2021

Sample Type 9.45

Technician Daniel B



Moisture Content (%)	21
Bulk Density (Mg/m ³)	1.94
Dry Density (Mg/m ³)	1.60
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	185
Deviator Stress (kPa)	151
Undrained Shear Strength (kPa)	76
Failure Strain (%)	7
Mode Of Failure	Brittle
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

Specimen Post Test



Sample Split



Checked	22/09/2021	Richard John	
Approved	23/09/2021	Paul Evans	





Single Stage Unconsolidated-Undrained Triaxial Test
BS 1377 : 1990 Part 7 : 8

Contract Number 55496

Borehole/Pit No. BH02

Site Name Great Ormond Street Hospital

Sample No.

Soil Description Greyish brown silty CLAY.

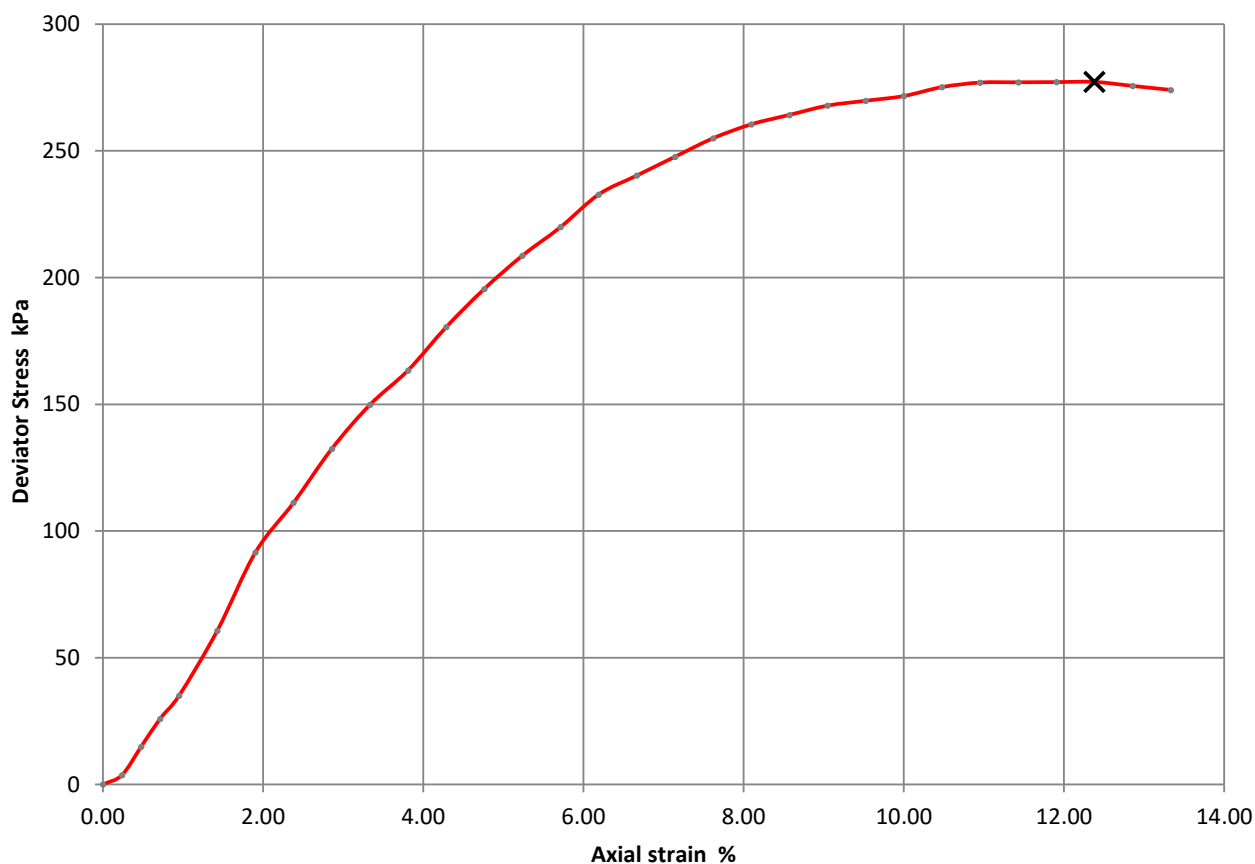
Depth Top (m)

Depth Base (m) 12.00

Date Tested 08/09/2021

Sample Type 12.45

Technician Daniel B



Moisture Content (%)	16
Bulk Density (Mg/m ³)	2.00
Dry Density (Mg/m ³)	1.73
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	245
Deviator Stress (kPa)	277
Undrained Shear Strength (kPa)	139
Failure Strain (%)	12
Mode Of Failure	Brittle
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

Specimen Post Test

Sample Split



Checked	22/09/2021	Richard John	
Approved	23/09/2021	Paul Evans	





Single Stage Unconsolidated-Undrained Triaxial Test
BS 1377 : 1990 Part 7 : 8

Contract Number 55496

Borehole/Pit No. BH02

Site Name Great Ormond Street Hospital

Sample No.

Soil Description Greyish brown silty CLAY.

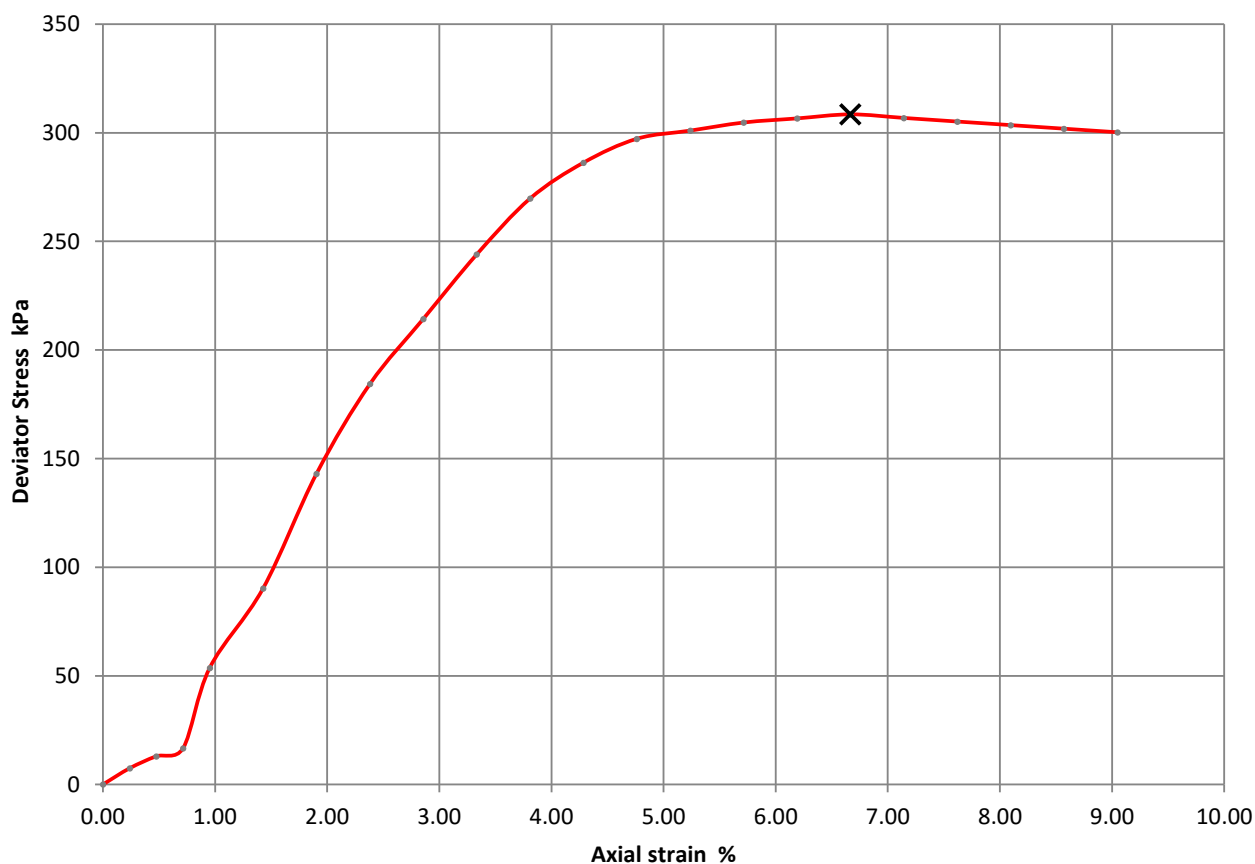
Depth Top (m)

Depth Base (m) 15.00

Date Tested 08/09/2021

Sample Type 15.45

Technician Daniel B



Moisture Content (%)	26
Bulk Density (Mg/m ³)	1.96
Dry Density (Mg/m ³)	1.56
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	305
Deviator Stress (kPa)	308
Undrained Shear Strength (kPa)	154
Failure Strain (%)	7
Mode Of Failure	Brittle
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

Specimen Post Test



Sample Split



Checked	22/09/2021	Richard John	
Approved	23/09/2021	Paul Evans	





Single Stage Unconsolidated-Undrained Triaxial Test
BS 1377 : 1990 Part 7 : 8

Contract Number

55496

Borehole/Pit No.

BH02

Site Name

Great Ormond Street Hospital

Sample No.

Soil Description

Greyish brown silty CLAY.

Depth Top (m)

Depth Base (m)

18.00

Date Tested

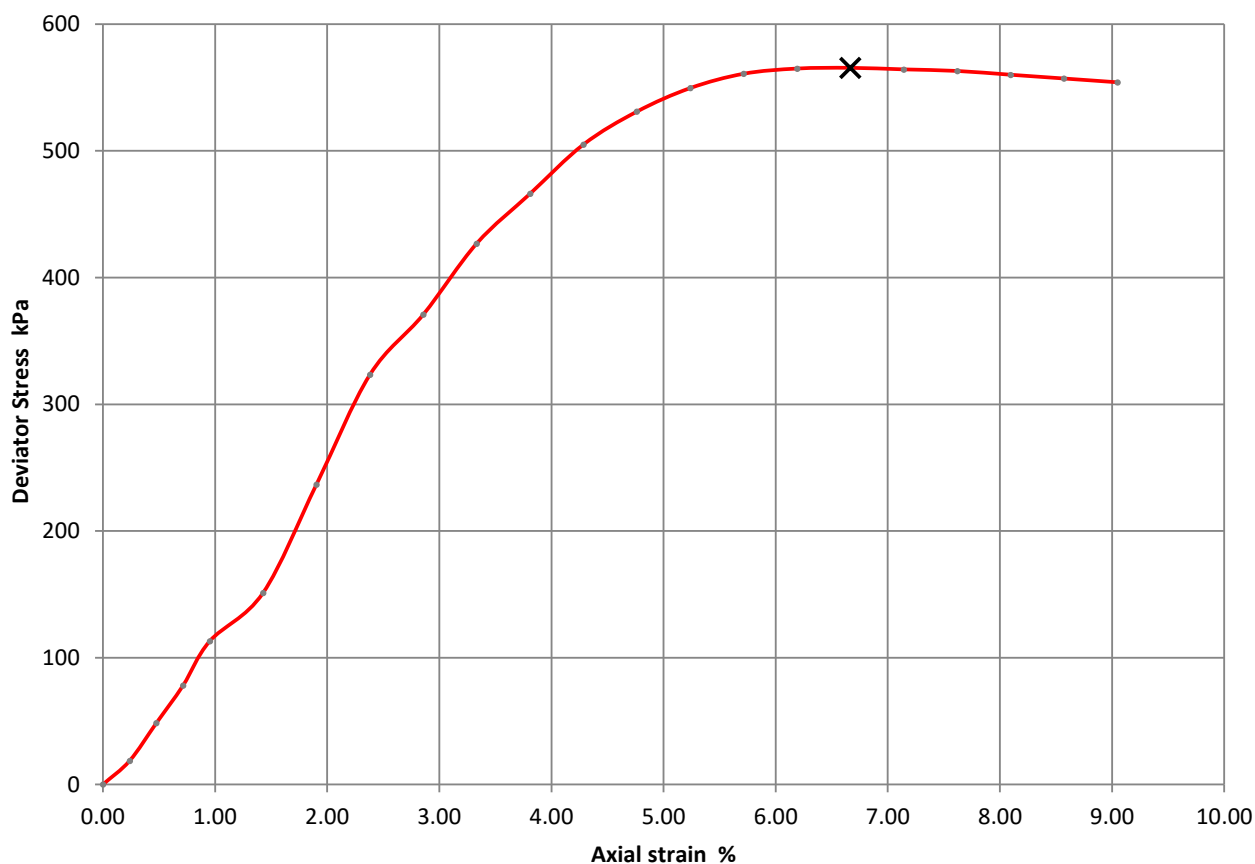
08/09/2021

Sample Type

18.45

Technician

Daniel B



Moisture Content (%)	21
Bulk Density (Mg/m ³)	2.06
Dry Density (Mg/m ³)	1.69
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	365
Deviator Stress (kPa)	566
Undrained Shear Strength (kPa)	283
Failure Strain (%)	7
Mode Of Failure	Brittle
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

Specimen Post Test



Sample Split



Checked	22/09/2021	Richard John	
Approved	23/09/2021	Paul Evans	





Single Stage Unconsolidated-Undrained Triaxial Test
BS 1377 : 1990 Part 7 : 8

Contract Number

55496

Borehole/Pit No.

BH03

Site Name

Great Ormond Street Hospital

Sample No.

Soil Description

Greyish brown silty CLAY.

Depth Top (m)

2.50

Depth Base (m)

2.95

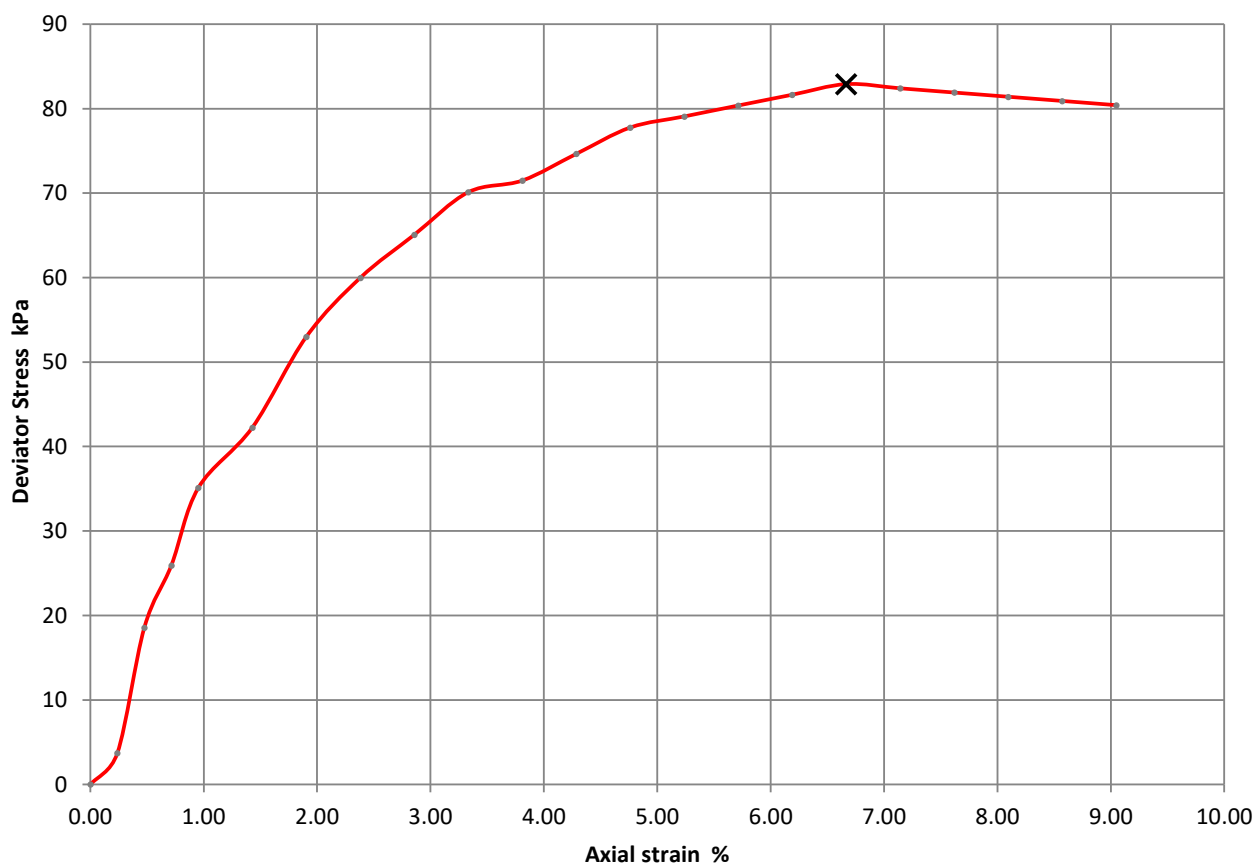
Date Tested

08/09/2021

Sample Type

Technician

Daniel B



Moisture Content (%)	33
Bulk Density (Mg/m ³)	1.86
Dry Density (Mg/m ³)	1.40
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	55
Deviator Stress (kPa)	83
Undrained Shear Strength (kPa)	41
Failure Strain (%)	7
Mode Of Failure	Brittle
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

Specimen Post Test

Sample Split



Checked	22/09/2021	Richard John	
Approved	23/09/2021	Paul Evans	





Single Stage Unconsolidated-Undrained Triaxial Test
BS 1377 : 1990 Part 7 : 8

Contract Number

55496

Borehole/Pit No.

BH03

Site Name

Great Ormond Street Hospital

Sample No.

Soil Description

Greyish silty CLAY.

Depth Top (m)

4.50

Depth Base (m)

4.95

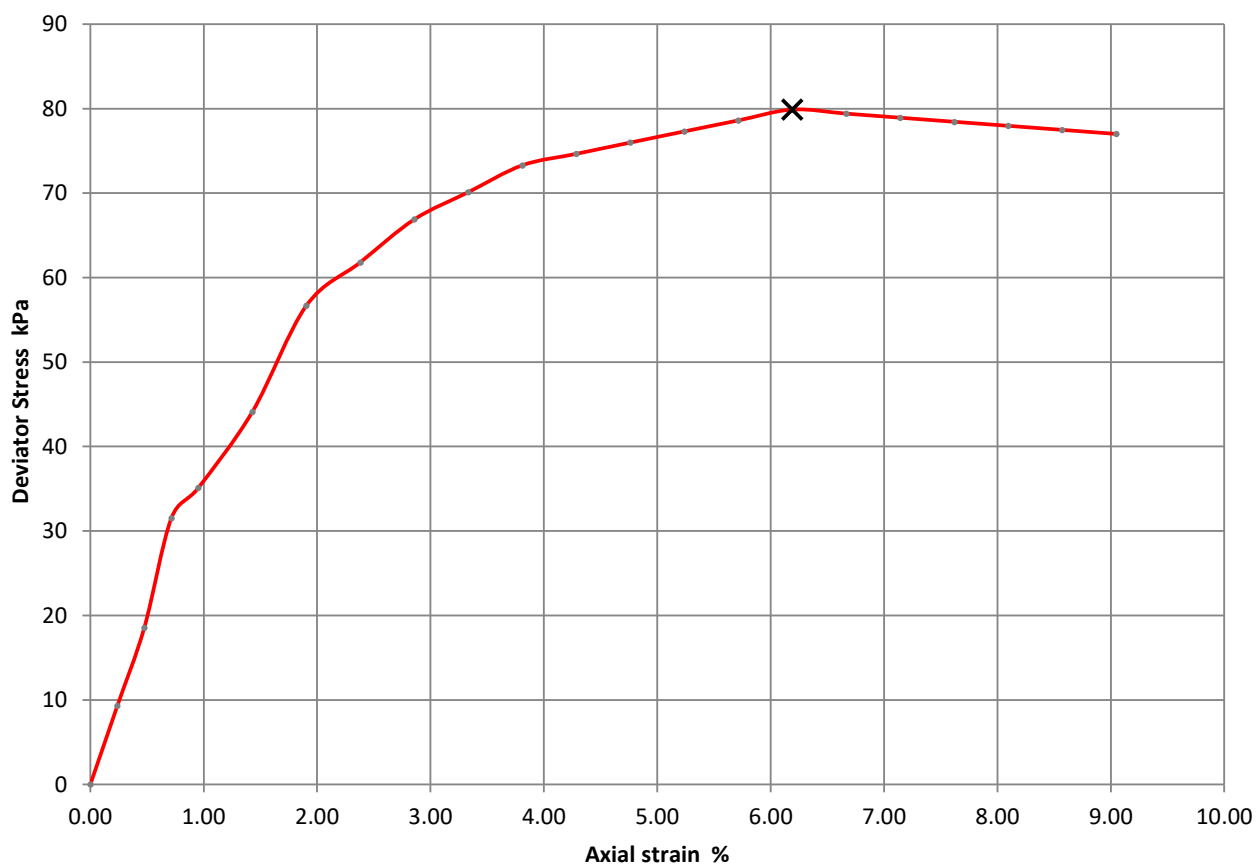
Date Tested

08/09/2021

Sample Type

Technician

Daniel B



Moisture Content (%)	26
Bulk Density (Mg/m ³)	1.95
Dry Density (Mg/m ³)	1.55
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	95
Deviator Stress (kPa)	80
Undrained Shear Strength (kPa)	40
Failure Strain (%)	6
Mode Of Failure	Brittle
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

Specimen Post Test



Sample Split



Checked	22/09/2021	Richard John	
Approved	23/09/2021	Paul Evans	





Single Stage Unconsolidated-Undrained Triaxial Test
BS 1377 : 1990 Part 7 : 8

Contract Number 55496

Borehole/Pit No. BH03

Site Name Great Ormond Street Hospital

Sample No.

Soil Description Greyish silty CLAY.

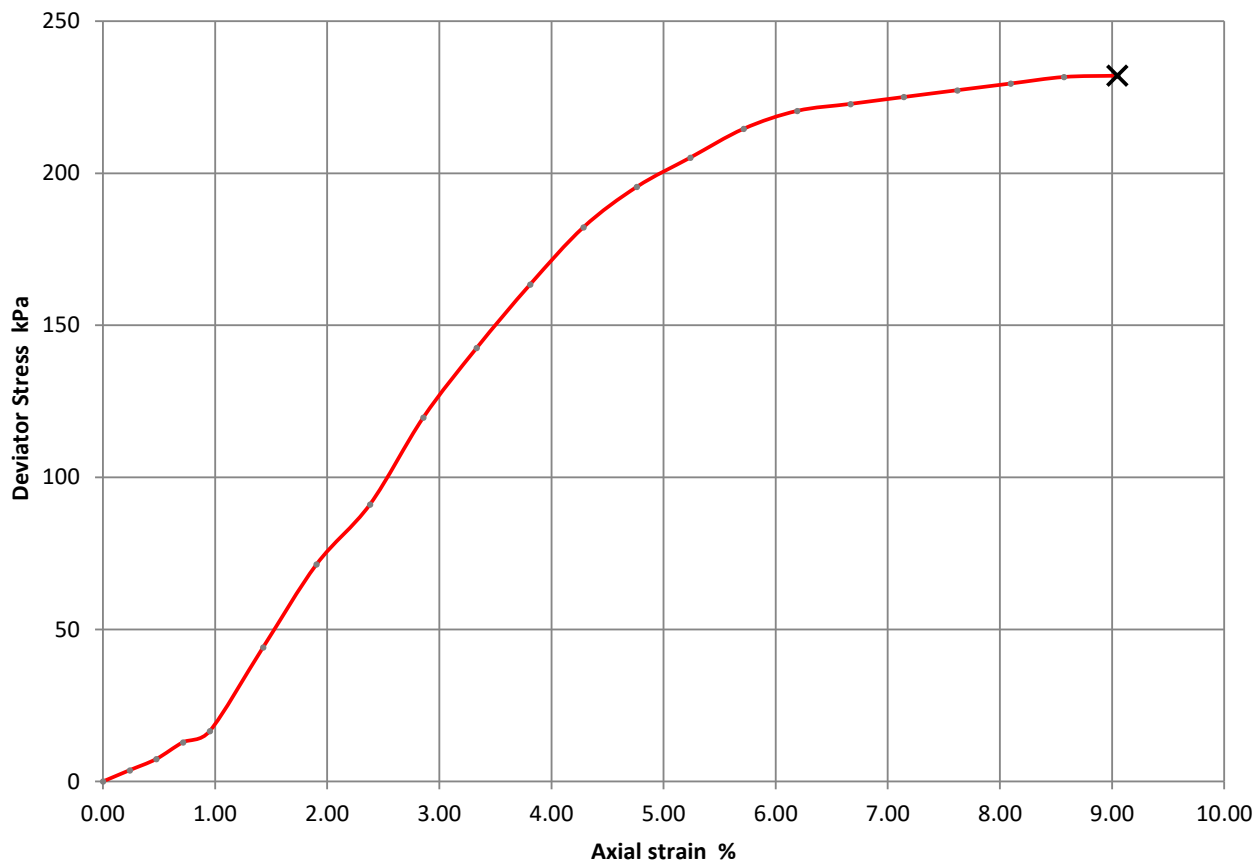
Depth Top (m) 7.50

Depth Base (m) 7.95

Date Tested 08/09/2021

Sample Type

Technician Daniel B



Moisture Content (%)	26
Bulk Density (Mg/m ³)	1.92
Dry Density (Mg/m ³)	1.52
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	155
Deviator Stress (kPa)	232
Undrained Shear Strength (kPa)	116
Failure Strain (%)	9
Mode Of Failure	Brittle
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

Specimen Post Test



Sample Split



Checked	22/09/2021	Richard John	
Approved	23/09/2021	Paul Evans	





Single Stage Unconsolidated-Undrained Triaxial Test
BS 1377 : 1990 Part 7 : 8

Contract Number 55496

Borehole/Pit No. BH03

Site Name Great Ormond Street Hospital

Sample No.

Soil Description Greyish brown silty CLAY.

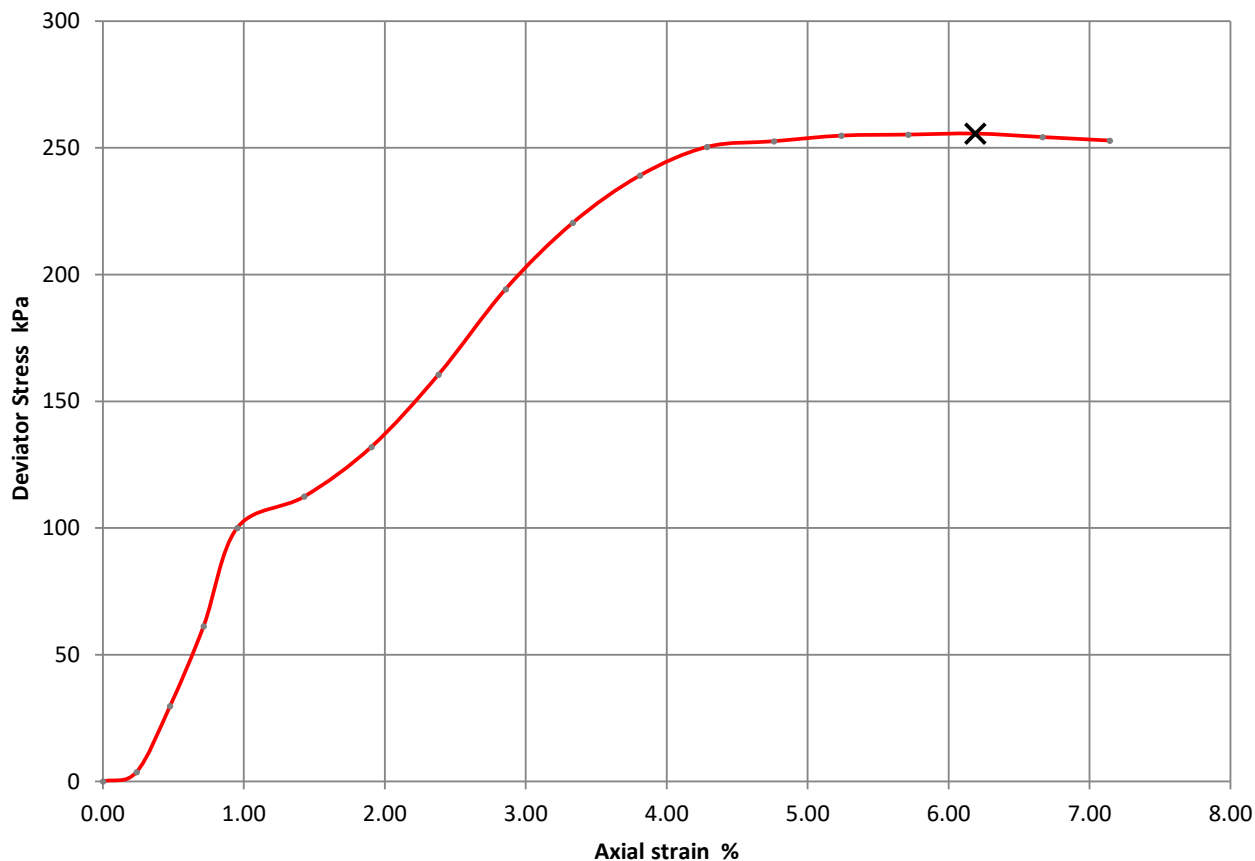
Depth Top (m) 10.50

Depth Base (m) 10.95

Date Tested 08/09/2021

Sample Type

Technician Daniel B



Moisture Content (%)	23
Bulk Density (Mg/m ³)	1.97
Dry Density (Mg/m ³)	1.61
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	215
Deviator Stress (kPa)	256
Undrained Shear Strength (kPa)	128
Failure Strain (%)	6
Mode Of Failure	Brittle
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

Specimen Post Test



Sample Split



Checked	22/09/2021	Richard John	
Approved	23/09/2021	Paul Evans	





Single Stage Unconsolidated-Undrained Triaxial Test
BS 1377 : 1990 Part 7 : 8

Contract Number

55496

Borehole/Pit No.

BH03

Site Name

Great Ormond Street Hospital

Sample No.

Soil Description

Greyish brown silty CLAY.

Depth Top (m)

13.50

Depth Base (m)

13.95

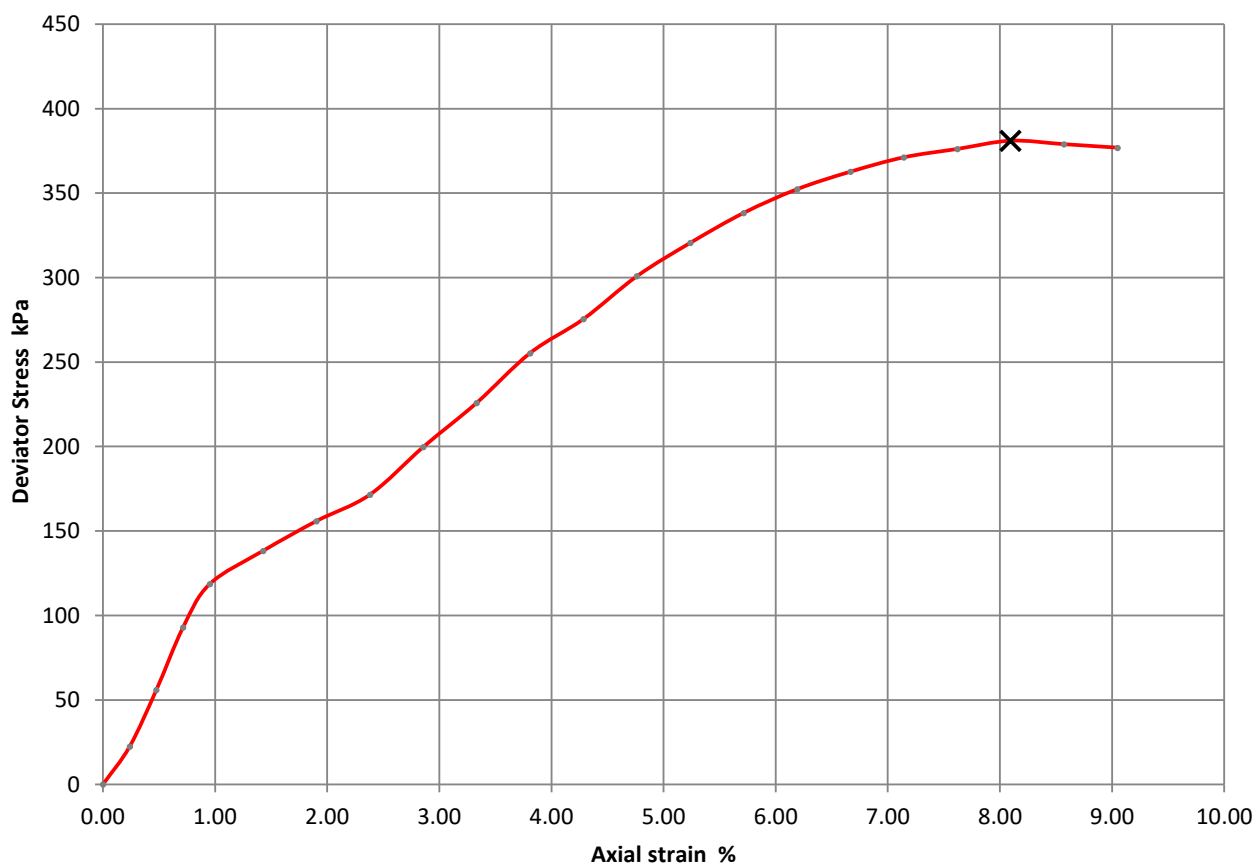
Date Tested

08/09/2021

Sample Type

Technician

Daniel B



Moisture Content (%)	23
Bulk Density (Mg/m ³)	2.00
Dry Density (Mg/m ³)	1.63
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	275
Deviator Stress (kPa)	381
Undrained Shear Strength (kPa)	191
Failure Strain (%)	8
Mode Of Failure	Brittle
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

Specimen Post Test



Sample Split



Checked	22/09/2021	Richard John	
Approved	23/09/2021	Paul Evans	





Single Stage Unconsolidated-Undrained Triaxial Test
BS 1377 : 1990 Part 7 : 8

Contract Number 55496

Borehole/Pit No. BH03

Site Name Great Ormond Street Hospital

Sample No.

Soil Description Greyish brown silty CLAY.

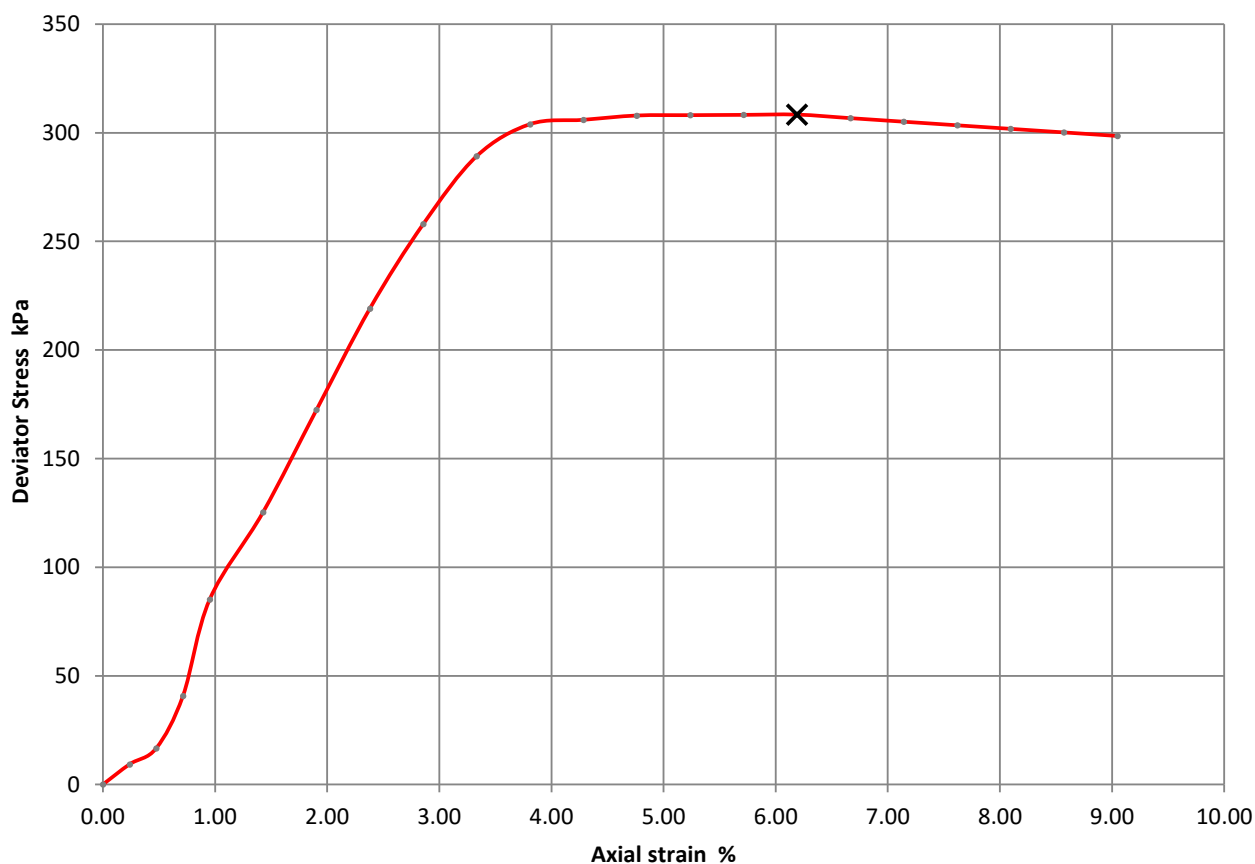
Depth Top (m) 16.50

Depth Base (m) 16.95

Date Tested 08/09/2021

Sample Type

Technician Daniel B



Moisture Content (%)	17
Bulk Density (Mg/m ³)	2.06
Dry Density (Mg/m ³)	1.77
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	275
Deviator Stress (kPa)	308
Undrained Shear Strength (kPa)	154
Failure Strain (%)	6
Mode Of Failure	Brittle
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

Specimen Post Test



Sample Split



Checked	22/09/2021	Richard John	
Approved	23/09/2021	Paul Evans	





Single Stage Unconsolidated-Undrained Triaxial Test
BS 1377 : 1990 Part 7 : 8

Contract Number 55496

Borehole/Pit No. BH03

Site Name Great Ormond Street Hospital

Sample No.

Soil Description Mottled brown greyish brown silty CLAY.

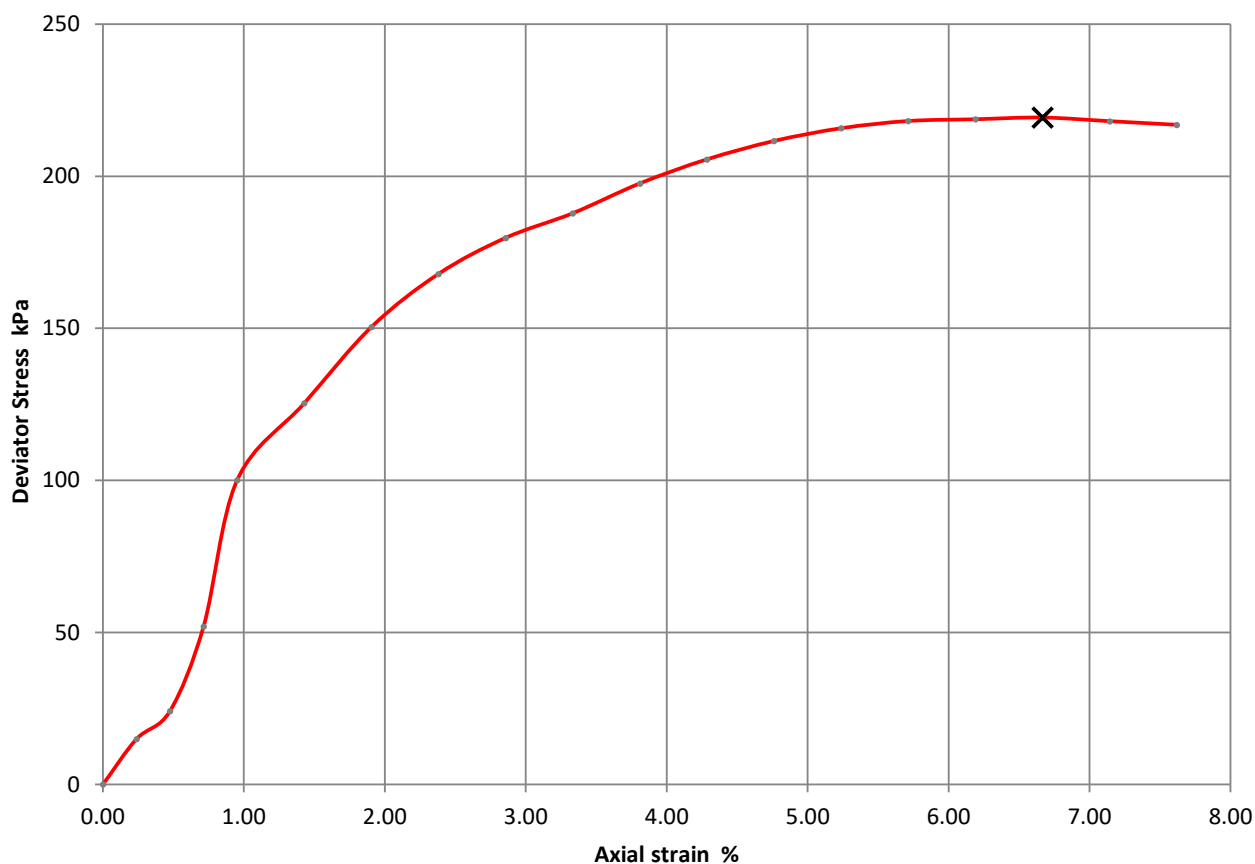
Depth Top (m) 16.50

Depth Base (m) 16.95

Date Tested 08/09/2021

Sample Type

Technician Daniel B



Moisture Content (%)	16
Bulk Density (Mg/m ³)	2.06
Dry Density (Mg/m ³)	1.78
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	395
Deviator Stress (kPa)	219
Undrained Shear Strength (kPa)	110
Failure Strain (%)	7
Mode Of Failure	Brittle
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

Specimen Post Test



Sample Split



Checked	22/09/2021	Richard John	
Approved	23/09/2021	Paul Evans	





Contract Number: 55674

Client Ref: **12921**

Report Date: **29-09-2021**

Client PO:

Client **A2 Site Investigation Limited**
Broom House, 39/43 London Road,
Hadleigh, Benfleet,
Essex
SS7 2QL

Contract Title: **Great Ormond Street Hospital**
For the attention of: **Will Moody**

Date Received: **07-09-2021**

Date Completed: **29-09-2021**

Test Description	Qty
Samples Received - @ Non Accredited Test	58
Moisture Content BS 1377:1990 - Part 2 : 3.2 - * UKAS	17
4 Point Liquid & Plastic Limit BS 1377:1990 - Part 2 : 4.3 & 5.3 - * UKAS	17
PSD Wet Sieve method BS 1377:1990 - Part 2 : 9.2 - * UKAS	2
PSD: Sedimentation by pipette carried out with Wet Sieve (Wet Sieve must also be selected) BS 1377:1990 - Part 2 : 9.4 - * UKAS	1
Quick Undrained Triaxial Compression test - single specimen at one confining pressure (100mm or 38mm diameter) BS 1377:1990 - Part 7 : 8 - * UKAS	12
Disposal of samples for job	1

Notes: Observations and Interpretations are outside the UKAS Accreditation

* - denotes test included in laboratory scope of accreditation

- denotes test carried out by approved contractor

@ - denotes non accredited tests

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved Signatories:

Emma Sharp (Business Support Manager) - Paul Evans (Director) - Richard John (Quality/Technical Manager)

Shaun Jones (Laboratory manager) - Shaun Thomas (Site Manager) - Wayne Honey (Quality Assistant / Administrator / Health and Safety Coordinator)



**NATURAL MOISTURE, LIQUID LIMIT, PLASTIC LIMIT AND
PLASTICITY INDEX
(BS 1377:1990 - Part 2 : 4.3 & 5.3)**

Contract Number

55674

Site Name

Great Ormond Street Hospital

Date Tested

20/09/2021

DESCRIPTIONS

Sample/Hole Reference	Sample Number	Sample Type	Depth (m)			Descriptions
BH01		D	2.20	-		Brown silty CLAY.
BH01		D	3.50	-		Brown silty CLAY.
BH01		D	5.00	-		Brown silty CLAY.
BH01		D	7.00	-		Brown silty CLAY.
BH01		D	8.50	-		Brown silty CLAY.
BH01		D	11.00	-		Brown silty CLAY.
BH01		D	14.00	-		Brown silty CLAY.
BH01		D	17.00	-		Brown silty CLAY.
BH01		D	18.00	-	18.50	Brown silty CLAY.
BH01		D	20.50	-		Brown silty CLAY.
BH01		D	23.50	-		Brown silty CLAY.
BH01		D	26.00	-		Brown silty CLAY.
BH01		D	28.00	-		Brown silty CLAY.
BH01		D	29.00	-		Brown silty CLAY.
BH01		D	31.00	-		Brown silty CLAY.
BH01		D	34.30	-		Brown silty CLAY.
BH01		D	35.50	-		Brown silty CLAY.
				-		
				-		
				-		
				-		
				-		
				-		
				-		
				-		

Operators

Checked

21/09/2021

Richard John (Advanced Testing Manager)

Clayton Jenkins

Approved

21/09/2021

Paul Evans (Quality/Technical Manager)

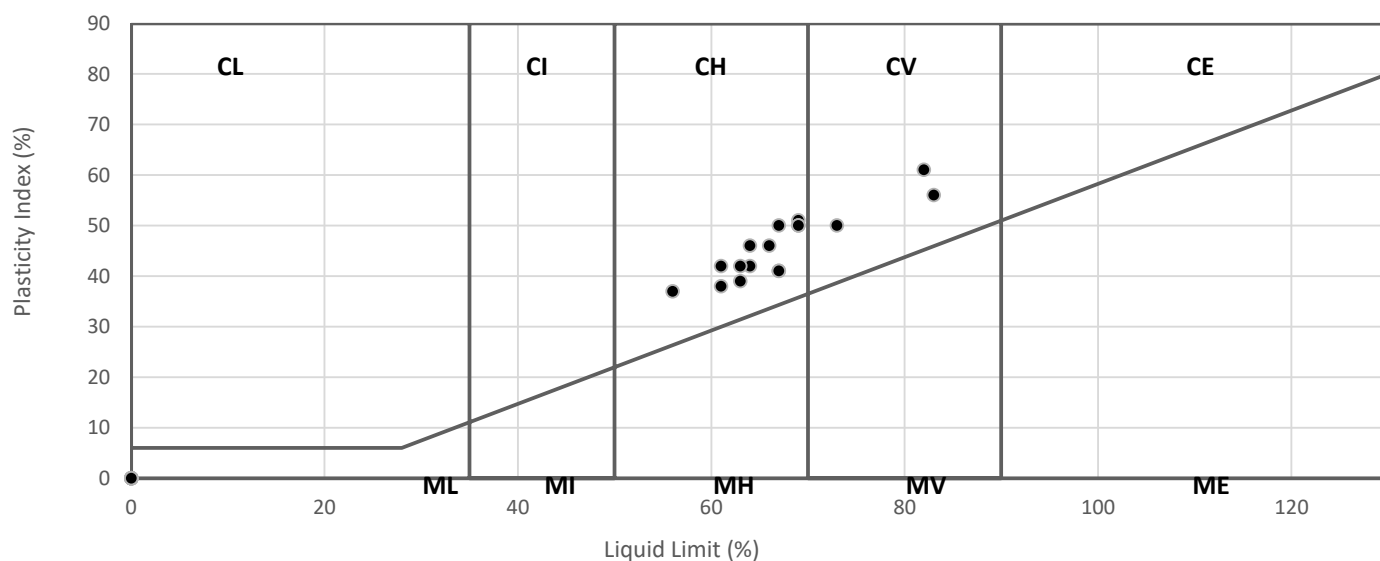


Contract Number	55674	
Project Location	Great Ormond Street Hospital	
Date Tested	20/09/2021	

Sample/Hole Reference	Sample Number	Sample Type	Depth (m)			Moisture Content %	Liquid Limit %	Plastic Limit %	Plasticity index %	Passing 0.425mm %	Remarks
BH01		D	2.20	-		28	69	18	51	100	CH High Plasticity
BH01		D	3.50	-		32	67	26	41	100	CH High Plasticity
BH01		D	5.00	-		33	83	27	56	100	CV Very High Plasticity
BH01		D	7.00	-		27	67	26	41	100	CH High Plasticity
BH01		D	8.50	-		24	66	20	46	100	CH High Plasticity
BH01		D	11.00	-		22	69	19	50	100	CH High Plasticity
BH01		D	14.00	-		28	73	23	50	100	CV Very High Plasticity
BH01		D	17.00	-		22	56	19	37	100	CH High Plasticity
BH01		D	18.00	-	18.50	20	69	19	50	100	CH High Plasticity
BH01		D	20.50	-		24	82	21	61	100	CV Very High Plasticity
BH01		D	23.50	-		25	63	24	39	100	CH High Plasticity
BH01		D	26.00	-		29	64	22	42	100	CH High Plasticity
BH01		D	28.00	-		24	63	21	42	100	CH High Plasticity
BH01		D	29.00	-		22	61	19	42	100	CH High Plasticity
BH01		D	31.00	-		28	61	23	38	100	CH High Plasticity
BH01		D	34.30	-		18	64	18	46	100	CH High Plasticity
BH01		D	35.50	-		18	67	17	50	100	CH High Plasticity
				-							
				-							
				-							
				-							
				-							
				-							
				-							
				-							

Symbols: NP : Non Plastic # : Liquid Limit and Plastic Limit Wet Sieved

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION BS 5930:1999+A2:2010



Operators	Checked	21/09/2021	Richard John (Advanced Testing Manager)
Clayton Jenkins	Approved	21/09/2021	Paul Evans (Quality/Technical Manager)



PARTICLE SIZE DISTRIBUTION
BS 1377 Part 2:1990
Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Contract Number 55674

Borehole/Pit No. BH01

Site Name Great Ormond Street Hospital

Sample No.

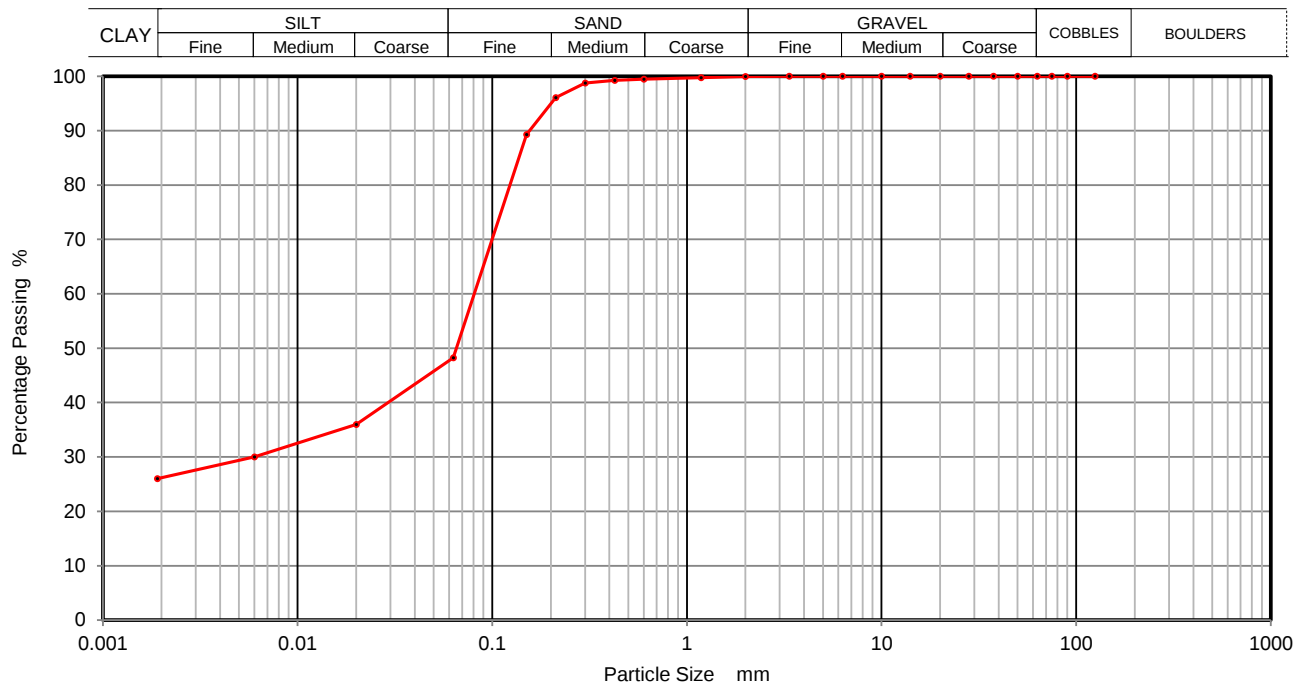
Soil Description Brown silty clayey fine to coarse SAND

Depth Top 37.50

Depth Base 38.00

Date Tested 29/09/2021

Sample Type B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	36
90	100	0.0060	30
75	100	0.0020	26
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	100		
0.6	99		
0.425	99		
0.3	99		
0.212	96		
0.15	89		
0.063	48		

Sample Proportions	% dry mass
Cobbles	0
Gravel	0
Sand	52
Silt	22
Clay	26

Remarks
Preparation and testing in accordance with BS1377 unless noted below

Operator	Checked	28/09/2021	Richard John	
David	Approved	29/09/2021	Paul Evans	





Single Stage Unconsolidated-Undrained Triaxial Test
BS 1377 : 1990 Part 7 : 8

Contract Number

55674

Borehole/Pit No.

BH01

Site Name

Great Ormond Street Hospital

Sample No.

Soil Description

Grey silty CLAY

Depth Top (m)

2.50

Depth Base (m)

2.95

Date Tested

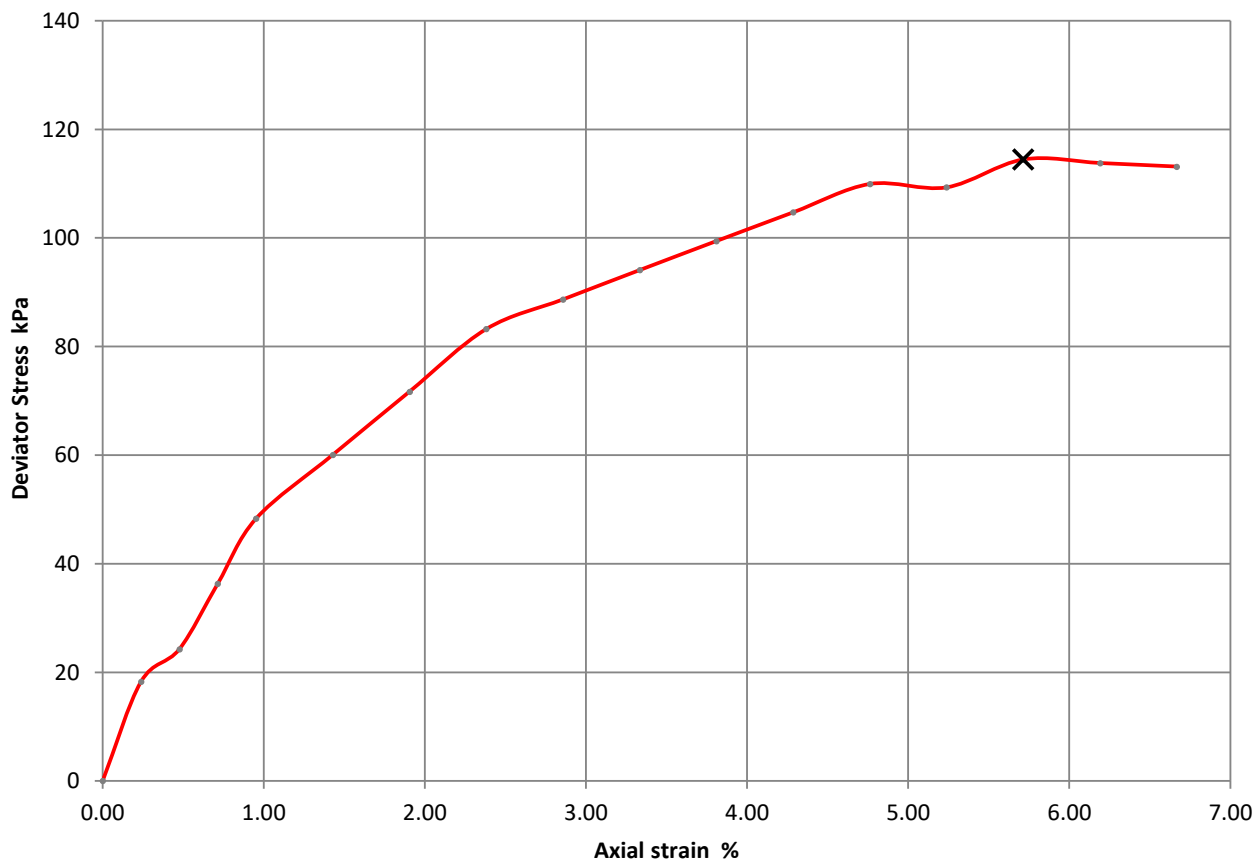
23/09/2021

Sample Type

UT

Technician

Daniel B



Moisture Content (%)	31
Bulk Density (Mg/m ³)	1.76
Dry Density (Mg/m ³)	1.35
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	55
Deviator Stress (kPa)	114
Undrained Shear Strength (kPa)	57
Failure Strain (%)	6
Mode Of Failure	Brittle
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

Checked	28/09/2021	Richard John	
Approved	29/09/2021	Paul Evans	





**Single Stage Unconsolidated-Undrained Triaxial
Test
BS 1377 : 1990 Part 7 : 8**

Contract Number 55674

Borehole/Pit No. BH01

Site Name Great Ormond Street Hospital

Sample No.

Soil Description Grey silty CLAY

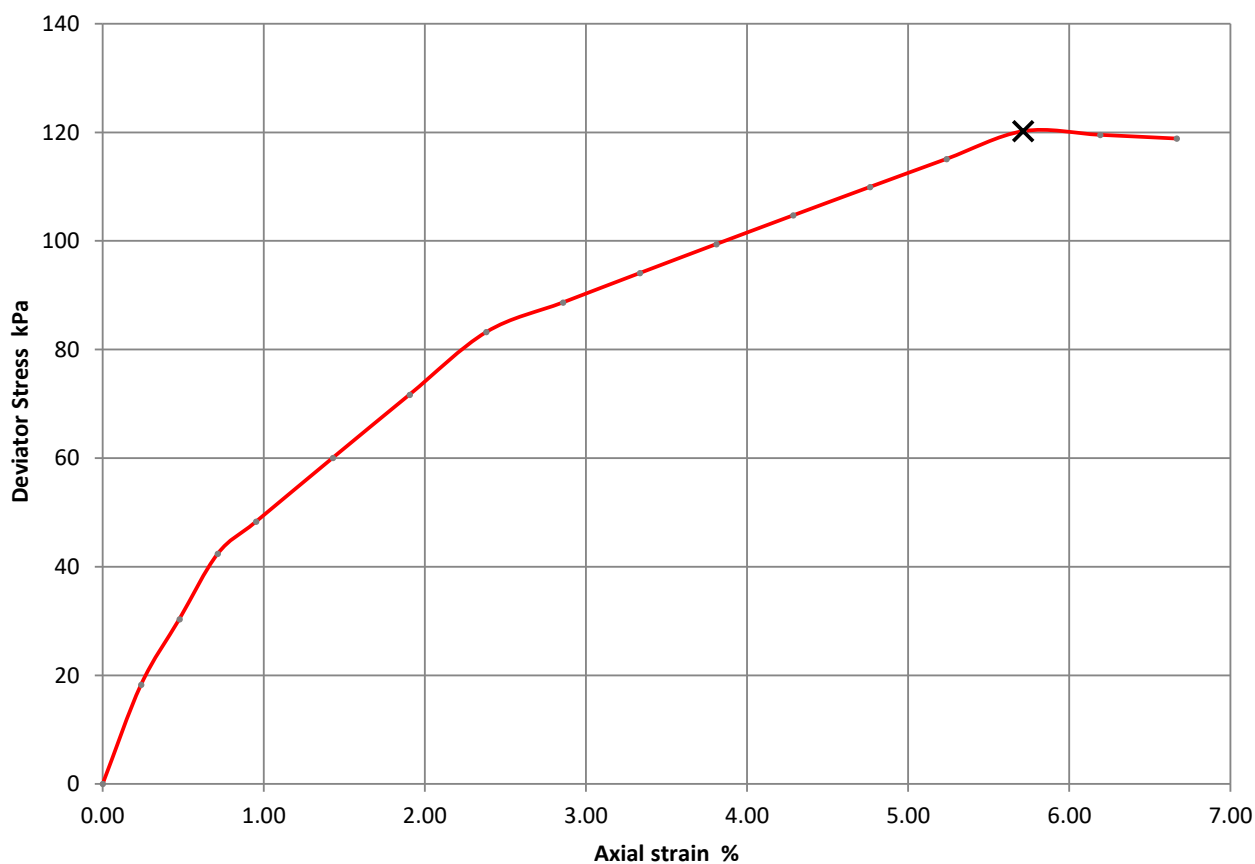
Depth Top (m) 4.50

Depth Base (m) 4.95

Date Tested 23/09/2021

Sample Type UT

Technician Daniel B



Moisture Content (%)	33
Bulk Density (Mg/m ³)	1.77
Dry Density (Mg/m ³)	1.33
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	95
Deviator Stress (kPa)	120
Undrained Shear Strength (kPa)	60
Failure Strain (%)	6
Mode Of Failure	Brittle
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

Checked	28/09/2021	Richard John	
Approved	29/09/2021	Paul Evans	





Single Stage Unconsolidated-Undrained Triaxial Test
BS 1377 : 1990 Part 7 : 8

Contract Number 55674

Borehole/Pit No. BH01

Site Name Great Ormond Street Hospital

Sample No.

Soil Description Mottled brown/ grey silty CLAY

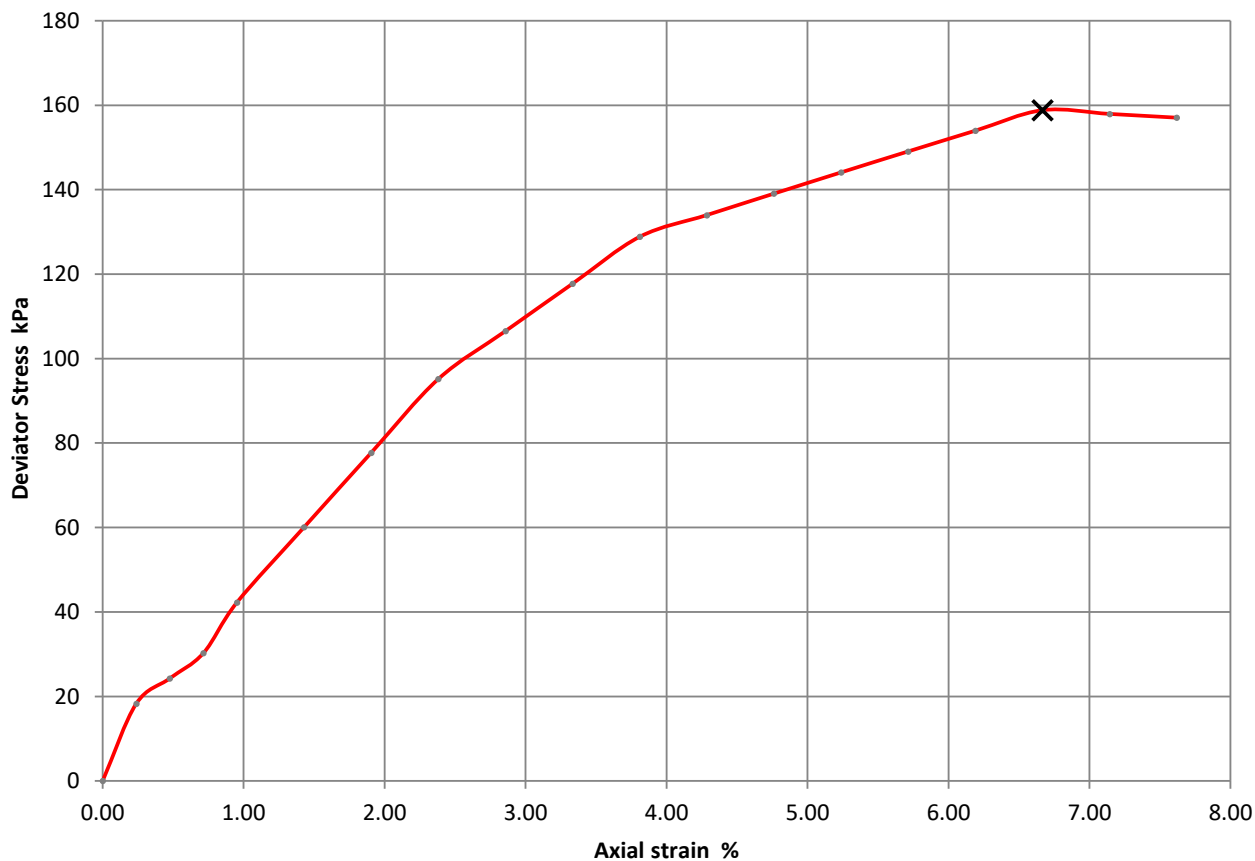
Depth Top (m) 7.50

Depth Base (m) 7.95

Date Tested 23/09/2021

Sample Type UT

Technician Daniel B



Moisture Content (%)	28
Bulk Density (Mg/m ³)	1.88
Dry Density (Mg/m ³)	1.47
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	155
Deviator Stress (kPa)	159
Undrained Shear Strength (kPa)	79
Failure Strain (%)	7
Mode Of Failure	Brittle
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

Checked	28/09/2021	Richard John	
Approved	29/09/2021	Paul Evans	





Single Stage Unconsolidated-Undrained Triaxial Test
BS 1377 : 1990 Part 7 : 8

Contract Number 55674

Borehole/Pit No. BH01

Site Name Great Ormond Street Hospital

Sample No.

Soil Description Grey silty CLAY

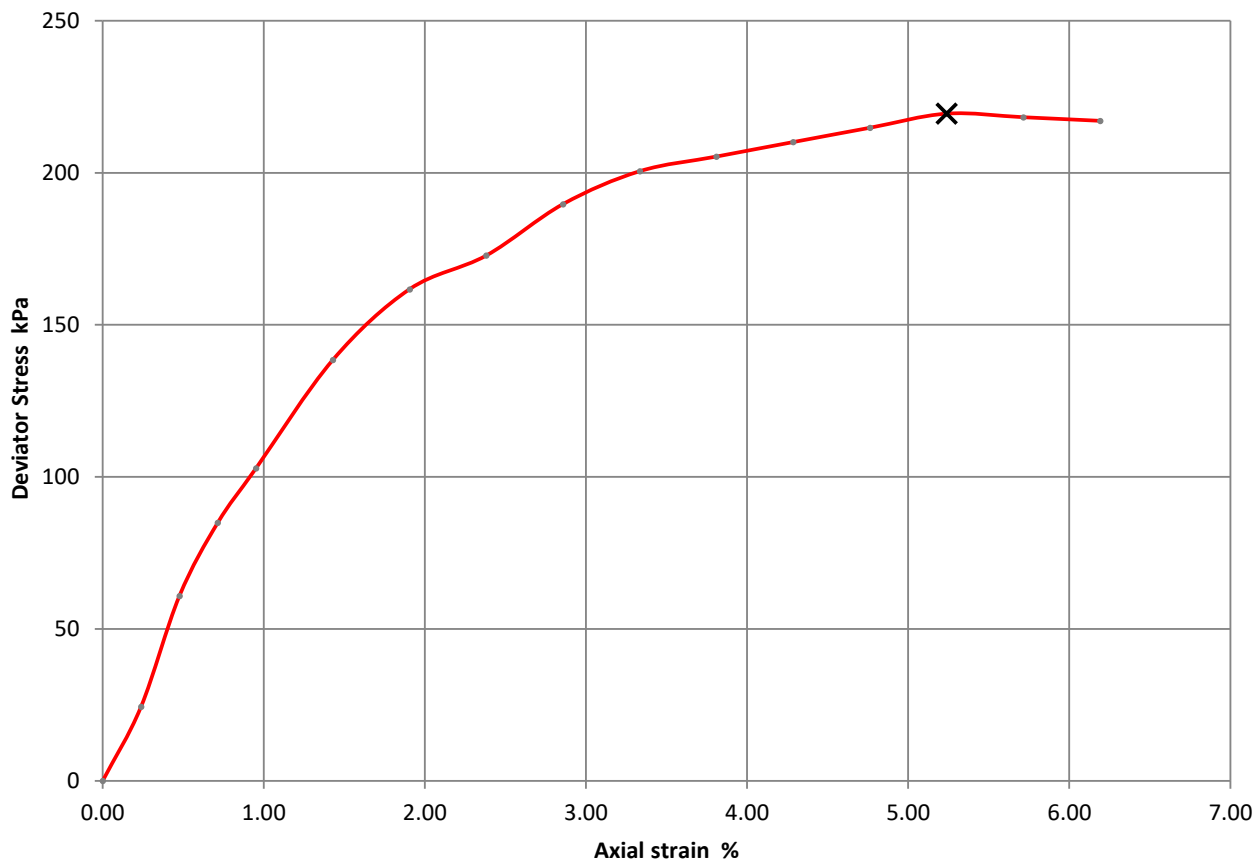
Depth Top (m) 10.50

Depth Base (m) 10.95

Date Tested 23/09/2021

Sample Type UT

Technician Daniel B



Moisture Content (%)	24
Bulk Density (Mg/m ³)	1.93
Dry Density (Mg/m ³)	1.56
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	215
Deviator Stress (kPa)	219
Undrained Shear Strength (kPa)	110
Failure Strain (%)	5
Mode Of Failure	Brittle
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

Checked	28/09/2021	Richard John	
Approved	29/09/2021	Paul Evans	





Single Stage Unconsolidated-Undrained Triaxial Test
BS 1377 : 1990 Part 7 : 8

Contract Number 55674

Borehole/Pit No. BH01

Site Name Great Ormond Street Hospital

Sample No.

Soil Description Grey silty CLAY

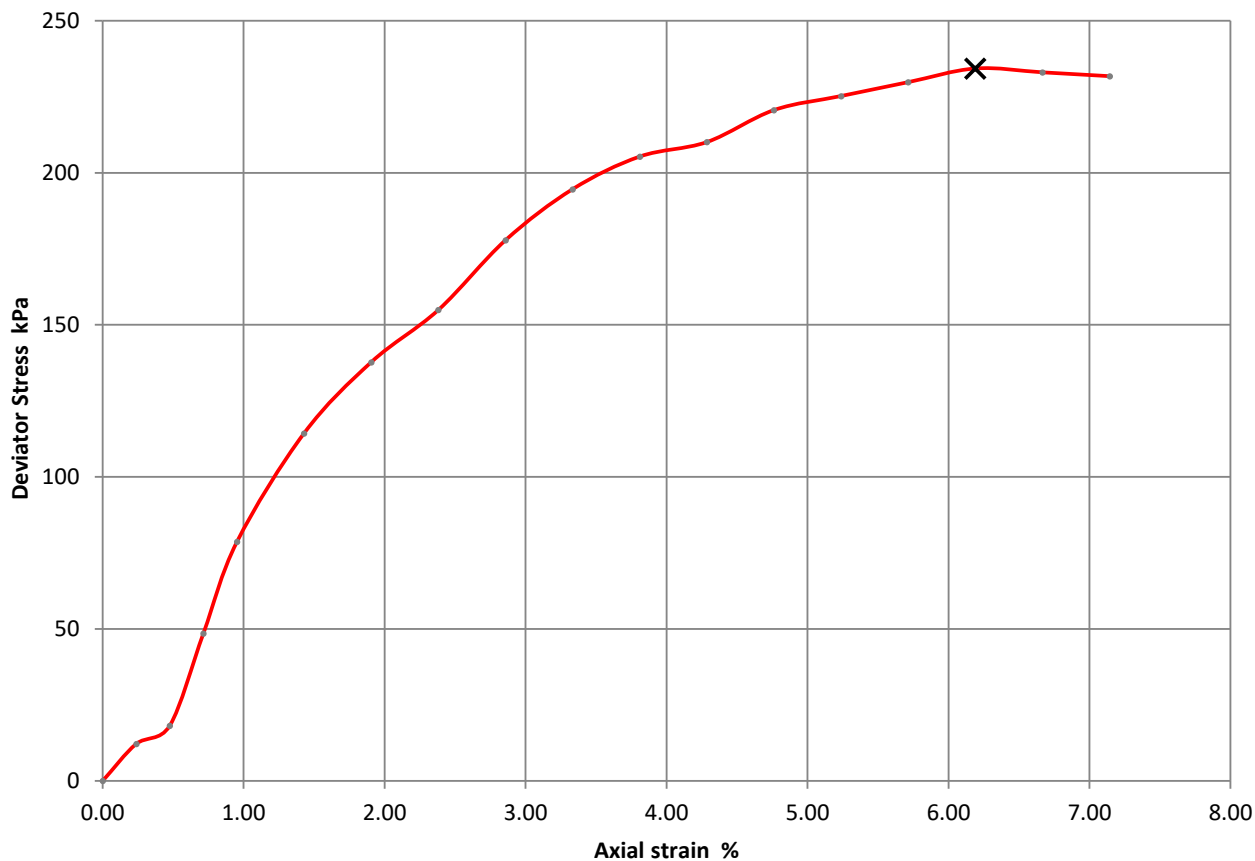
Depth Top (m) 13.50

Depth Base (m) 13.95

Date Tested 23/09/2021

Sample Type UT

Technician Daniel B



Moisture Content (%)	27
Bulk Density (Mg/m ³)	1.92
Dry Density (Mg/m ³)	1.51
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	275
Deviator Stress (kPa)	234
Undrained Shear Strength (kPa)	117
Failure Strain (%)	6
Mode Of Failure	Brittle
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

Checked	28/09/2021	Richard John	
Approved	29/09/2021	Paul Evans	





Single Stage Unconsolidated-Undrained Triaxial Test
BS 1377 : 1990 Part 7 : 8

Contract Number 55674

Borehole/Pit No. BH01

Site Name Great Ormond Street Hospital

Sample No.

Soil Description Grey silty CLAY

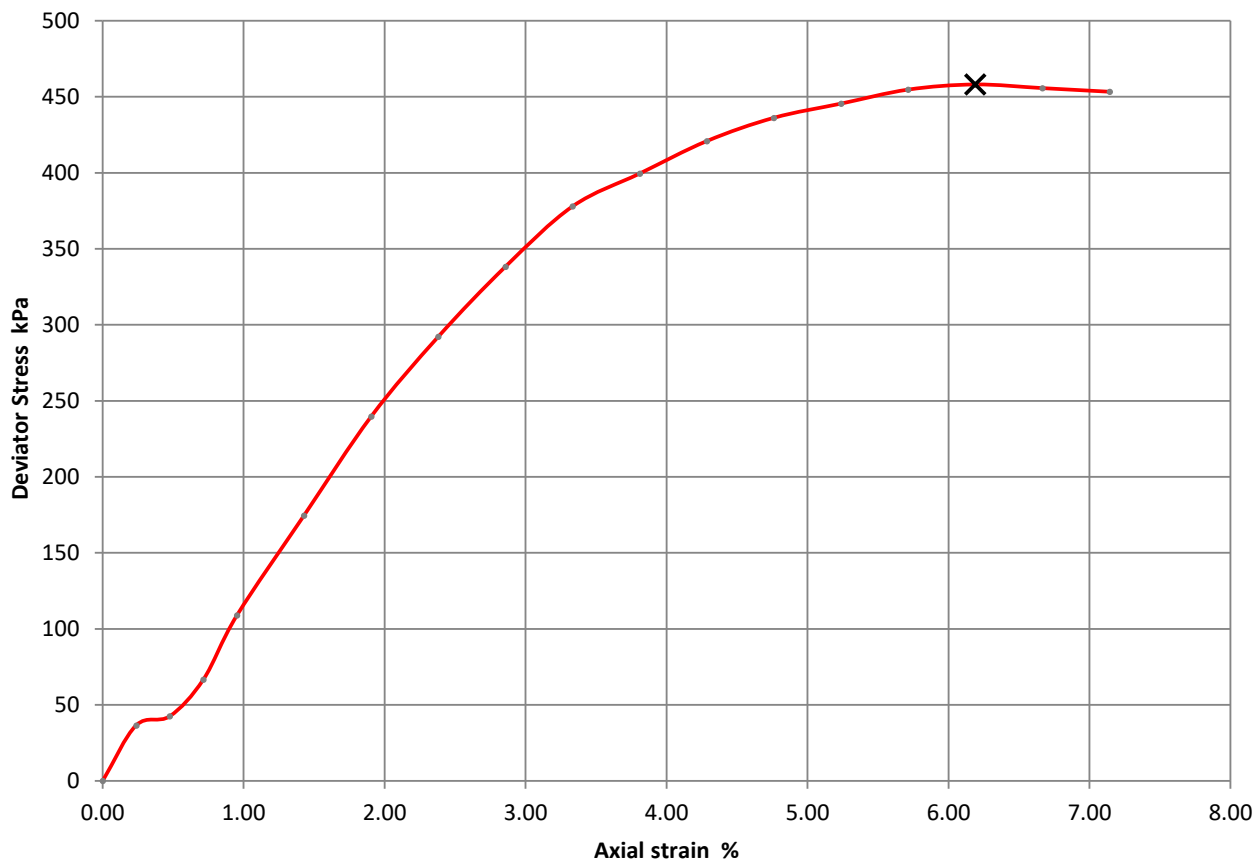
Depth Top (m) 16.50

Depth Base (m) 16.95

Date Tested 23/09/2021

Sample Type UT

Technician Daniel B



Moisture Content (%)	18
Bulk Density (Mg/m ³)	2.02
Dry Density (Mg/m ³)	1.70
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	335
Deviator Stress (kPa)	458
Undrained Shear Strength (kPa)	229
Failure Strain (%)	6
Mode Of Failure	Brittle
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

Checked	28/09/2021	Richard John	
Approved	29/09/2021	Paul Evans	





Single Stage Unconsolidated-Undrained Triaxial Test
BS 1377 : 1990 Part 7 : 8

Contract Number 55674

Borehole/Pit No. BH01

Site Name Great Ormond Street Hospital

Sample No.

Soil Description Grey/ brown silty CLAY

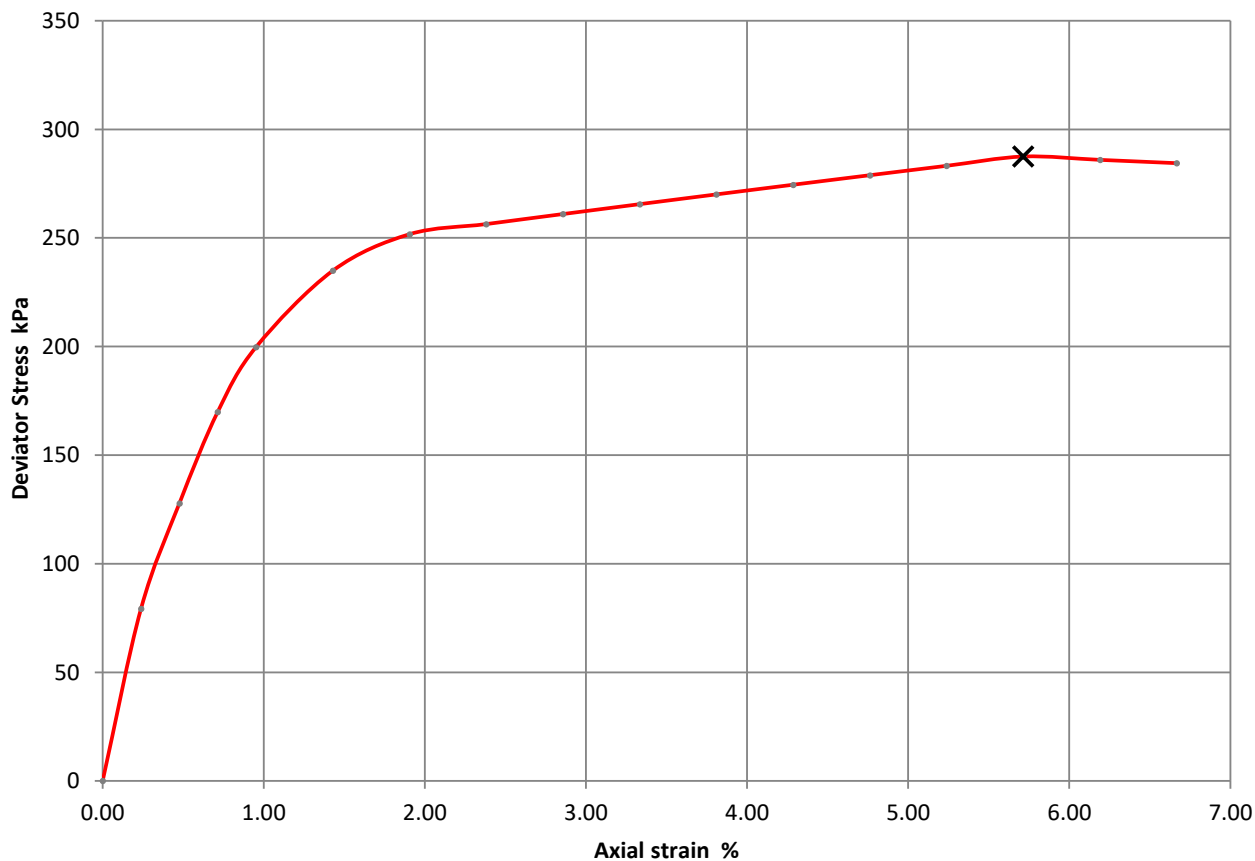
Depth Top (m) 19.50

Depth Base (m) 19.95

Date Tested 23/09/2021

Sample Type UT

Technician Daniel B



Moisture Content (%)	23
Bulk Density (Mg/m ³)	1.99
Dry Density (Mg/m ³)	1.62
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	395
Deviator Stress (kPa)	287
Undrained Shear Strength (kPa)	144
Failure Strain (%)	6
Mode Of Failure	Brittle
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

Checked	28/09/2021	Richard John	
Approved	29/09/2021	Paul Evans	





Single Stage Unconsolidated-Undrained Triaxial Test
BS 1377 : 1990 Part 7 : 8

Contract Number 55674

Borehole/Pit No. BH01

Site Name Great Ormond Street Hospital

Sample No.

Soil Description Grey/ brown silty CLAY

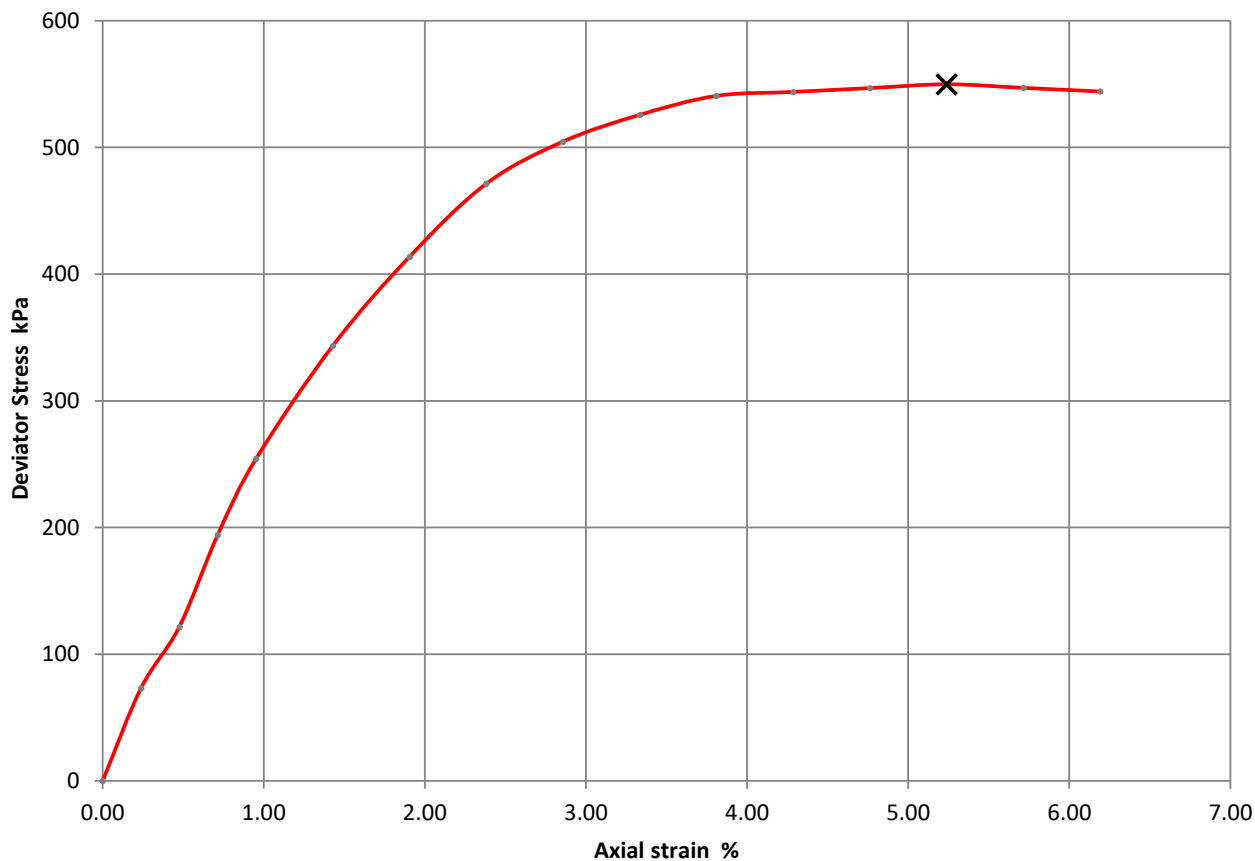
Depth Top (m) 22.50

Depth Base (m) 22.95

Date Tested 23/09/2021

Sample Type UT

Technician Daniel B



Moisture Content (%)	28
Bulk Density (Mg/m ³)	1.88
Dry Density (Mg/m ³)	1.47
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	155
Deviator Stress (kPa)	550
Undrained Shear Strength (kPa)	275
Failure Strain (%)	5
Mode Of Failure	Brittle
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

Checked	28/09/2021	Richard John	
Approved	29/09/2021	Paul Evans	





Single Stage Unconsolidated-Undrained Triaxial Test
BS 1377 : 1990 Part 7 : 8

Contract Number 55674

Borehole/Pit No. BH01

Site Name Great Ormond Street Hospital

Sample No.

Soil Description Mottled brown/ grey silty CLAY

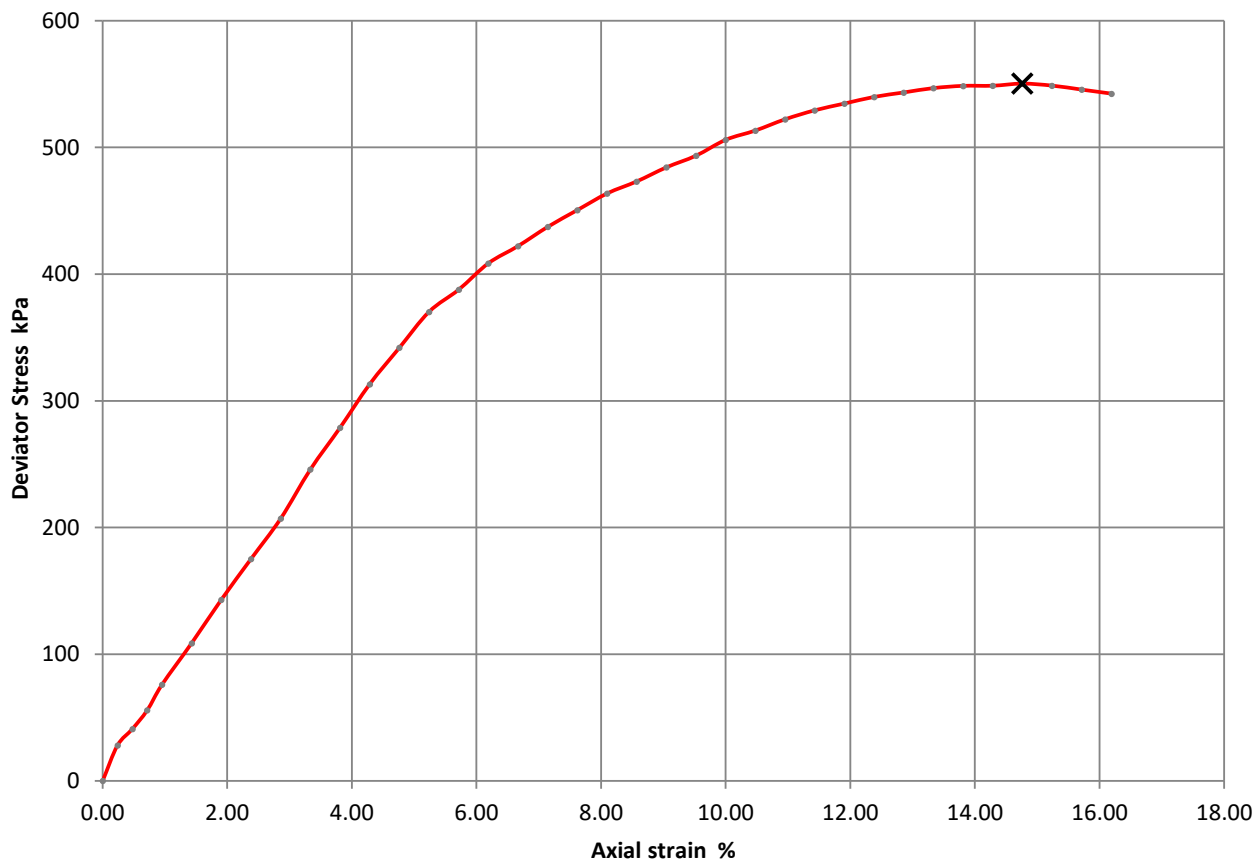
Depth Top (m) 25.50

Depth Base (m) 25.95

Date Tested 23/09/2021

Sample Type UT

Technician Daniel B



Moisture Content (%)	22
Bulk Density (Mg/m ³)	1.98
Dry Density (Mg/m ³)	1.62
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	515
Deviator Stress (kPa)	550
Undrained Shear Strength (kPa)	275
Failure Strain (%)	15
Mode Of Failure	Compound
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

Checked	28/09/2021	Richard John	
Approved	29/09/2021	Paul Evans	





Single Stage Unconsolidated-Undrained Triaxial Test
BS 1377 : 1990 Part 7 : 8

Contract Number 55674

Borehole/Pit No. BH01

Site Name Great Ormond Street Hospital

Sample No.

Soil Description Mottled brown/ grey silty CLAY

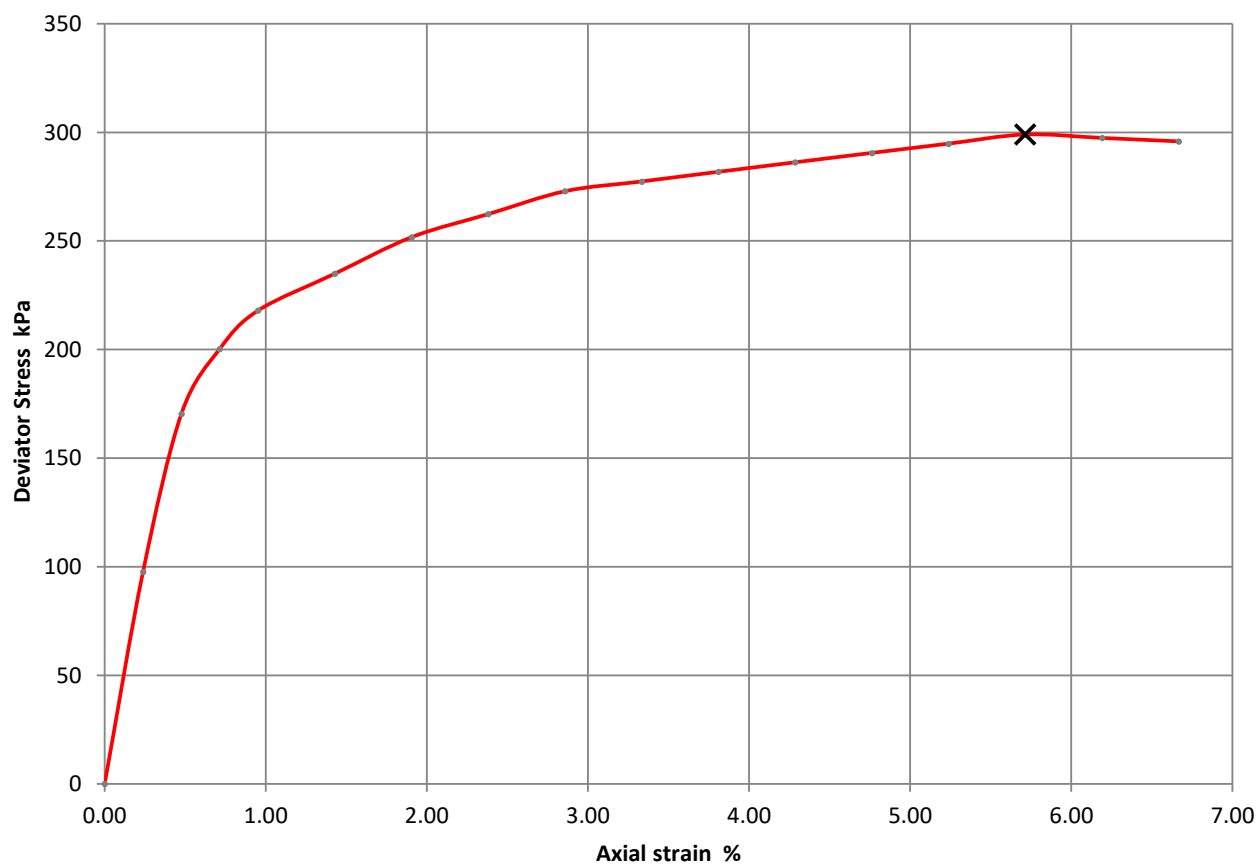
Depth Top (m) 28.50

Depth Base (m) 28.95

Date Tested 23/09/2021

Sample Type UT

Technician Daniel B



Moisture Content (%)	22
Bulk Density (Mg/m ³)	2.00
Dry Density (Mg/m ³)	1.64
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	575
Deviator Stress (kPa)	299
Undrained Shear Strength (kPa)	150
Failure Strain (%)	6
Mode Of Failure	Brittle
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

Checked	28/09/2021	Richard John	
Approved	29/09/2021	Paul Evans	





Single Stage Unconsolidated-Undrained Triaxial Test
BS 1377 : 1990 Part 7 : 8

Contract Number 55674

Borehole/Pit No. BH01

Site Name Great Ormond Street Hospital

Sample No.

Soil Description Mottled brown/ grey silty CLAY

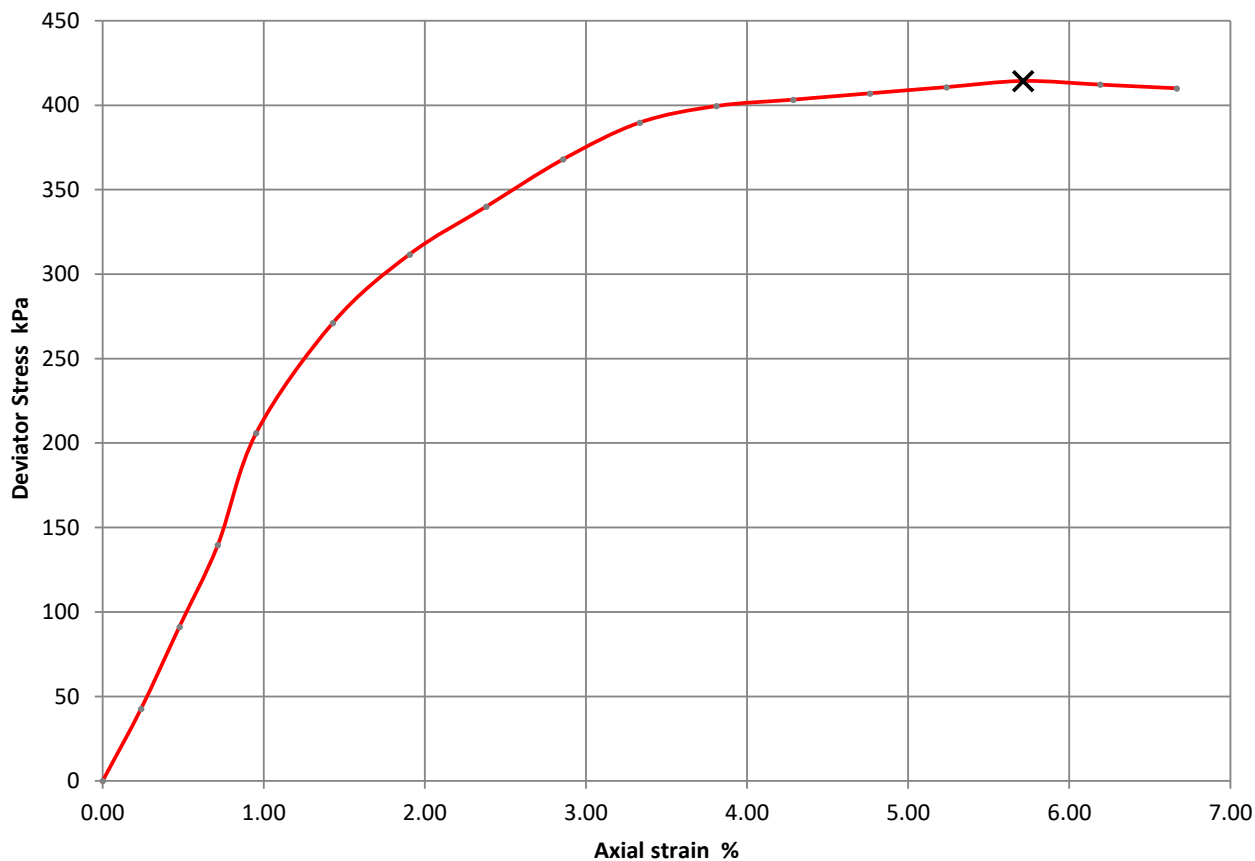
Depth Top (m) 31.50

Depth Base (m) 31.95

Date Tested 23/09/2021

Sample Type UT

Technician Daniel B



Moisture Content (%)	23
Bulk Density (Mg/m ³)	2.00
Dry Density (Mg/m ³)	1.62
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	635
Deviator Stress (kPa)	414
Undrained Shear Strength (kPa)	207
Failure Strain (%)	6
Mode Of Failure	Brittle
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

Checked	28/09/2021	Richard John	
Approved	29/09/2021	Paul Evans	





Single Stage Unconsolidated-Undrained Triaxial Test
BS 1377 : 1990 Part 7 : 8

Contract Number 55674

Borehole/Pit No. BH01

Site Name Great Ormond Street Hospital

Sample No.

Soil Description Grey silty CLAY

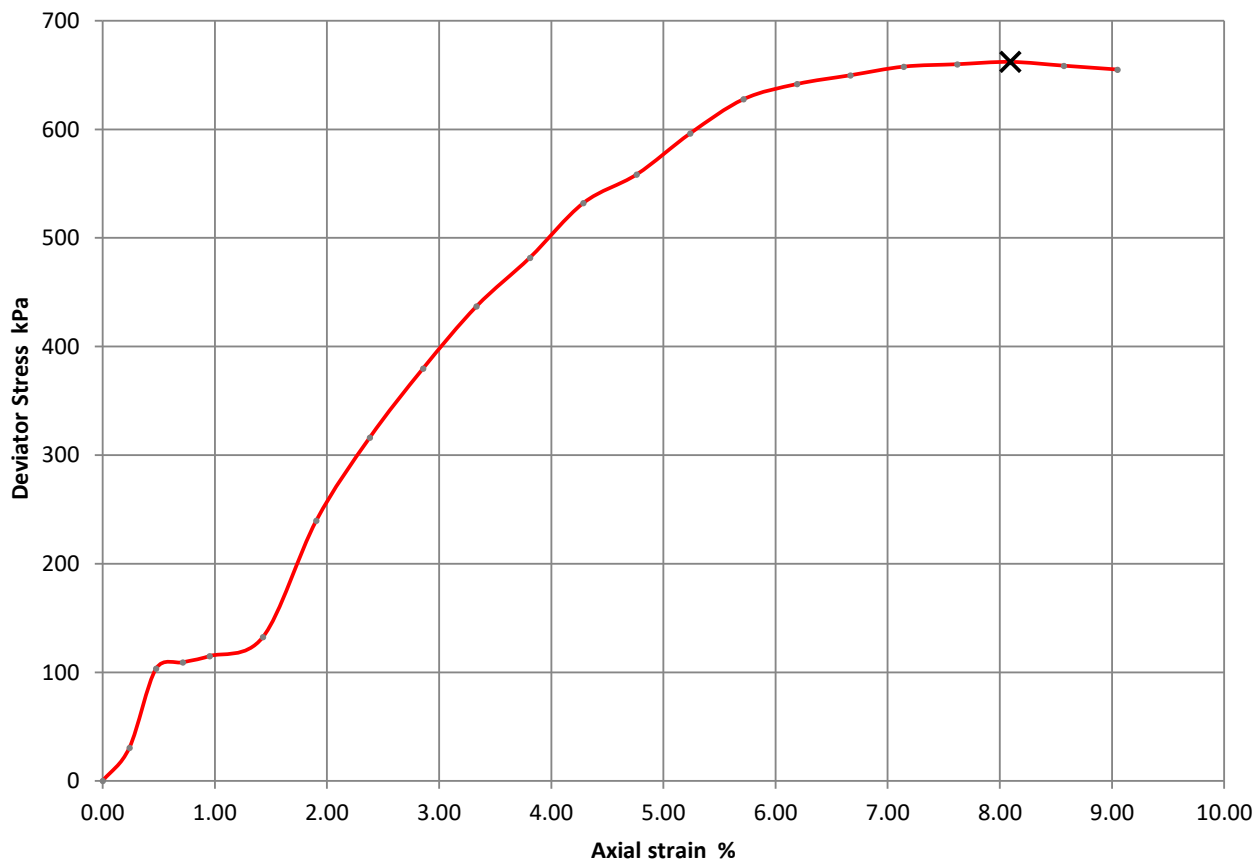
Depth Top (m) 34.50

Depth Base (m) 34.95

Date Tested 23/09/2021

Sample Type UT

Technician Daniel B



Moisture Content (%)	12
Bulk Density (Mg/m ³)	1.98
Dry Density (Mg/m ³)	1.78
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	695
Deviator Stress (kPa)	662
Undrained Shear Strength (kPa)	331
Failure Strain (%)	8
Mode Of Failure	Brittle
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

Checked	28/09/2021	Richard John	
Approved	29/09/2021	Paul Evans	





Appendix D: Geo-environmental Testing Results



Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY
Telephone: (01424) 718618

cs@elab-uk.co.uk
info@elab-uk.co.uk

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-35713

Issue: 1

Date of Issue: 08/09/2021

Contact: Will Moody

Customer Details: A2 Site Investigation Limited
One Westminster Bridge Road
South Bank
London
SE1 7XW

Quotation No: Q20-01974

Order No: Not Supplied

Customer Reference: 12921

Date Received: 24/08/2021

Date Approved: 08/09/2021

Details: Great Ormond St Hospital

Approved by:

Tim Reeve, Quality Officer

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 21-35713, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
249372	BH02 1 0.50	22/08/2021	01/09/2021		
249373	BH02 2 0.70	22/08/2021	01/09/2021	Loamy sand	g
249374	BH02 3 1.30	22/08/2021	01/09/2021	stones	g
249375	BH02 4 2.20	22/08/2021	01/09/2021		
249376	BH02 5 3.50	22/08/2021	01/09/2021	Clay	
249377	BH02 6 6.00	22/08/2021	01/09/2021	Clay	
249378	BH02 7 9.00	22/08/2021	01/09/2021	Clay	
249379	BH02 8 12.00	22/08/2021	01/09/2021	Clay	
249380	BH02 9 15.00	22/08/2021	01/09/2021	Clay	
249381	BH02 10 18.00	22/08/2021	01/09/2021	Clay	

Results Summary

2683

Report No.: 21-35713, issue number 1

ELAB Reference	249373	249374	249376	249377	249378
Customer Reference	2	3	5	6	7
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	BH02	BH02	BH02	BH02	BH02
Sample Depth (m)	0.70	1.30	3.50	6.00	9.00
Sampling Date	22/08/2021	22/08/2021	22/08/2021	22/08/2021	22/08/2021

Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Moisture Content	N	%	0.1	8.9	2.3	n/t	n/t	n/t
Material removed	N	%	0.1	54.8	n/t	< 0.1	< 0.1	< 0.1
Description of Inert material removed	N		0	Stones	All stones	None	None	None
Metals								
Arsenic	M	mg/kg	1	14.7	^ 4.4	n/t	n/t	n/t
Barium	U	mg/kg	10	226	346	n/t	n/t	n/t
Beryllium	U	mg/kg	1	1.0	< 1.0	n/t	n/t	n/t
Cadmium	M	mg/kg	0.5	< 0.5	^ 1.1	n/t	n/t	n/t
Chromium	M	mg/kg	5	38.9	^ 12.0	n/t	n/t	n/t
Chromium (III)	N	mg/kg	5	38.9	12.0	n/t	n/t	n/t
Copper	M	mg/kg	5	23.8	^ 10.1	n/t	n/t	n/t
Lead	M	mg/kg	5	67.1	^ 57.7	n/t	n/t	n/t
Mercury	M	mg/kg	0.5	< 0.5	^ < 0.5	n/t	n/t	n/t
Molybdenum	N	mg/kg	0.5	1.0	0.6	n/t	n/t	n/t
Nickel	M	mg/kg	5	31.9	^ 8.8	n/t	n/t	n/t
Phosphorus	N	mg/kg	42	432	116	n/t	n/t	n/t
Selenium	M	mg/kg	1	< 1.0	^ < 1.0	n/t	n/t	n/t
Vanadium	M	mg/kg	5	49.3	^ 9.9	n/t	n/t	n/t
Zinc	M	mg/kg	5	98.0	^ 73.3	n/t	n/t	n/t
Anions								
Water Soluble Sulphate	M	g/l	0.02	n/t	n/t	0.08	0.37	0.51
Inorganics								
Carbonate	N	%	0.1	8.5	51	n/t	n/t	n/t
Acid Soluble Chloride	N	%	0.01	0.03	0.03	n/t	n/t	n/t
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	n/t	n/t	n/t
Total Sulphide	N	mg/kg	2	< 2	< 2	n/t	n/t	n/t
Total Sulphur	N	%	0.01	n/t	n/t	0.21	0.95	0.76
Acid Soluble Sulphate (SO4)	U	%	0.02	0.03	0.05	0.06	0.11	0.14
Water Soluble Boron	N	mg/kg	0.5	0.7	< 0.5	n/t	n/t	n/t
Miscellaneous								
Acid Neutralisation Capacity	N	mol/kg	0.1	< 0.1	n/t	n/t	n/t	n/t
Fraction of Organic Carbon	N		0.0001	0.0019	0.0026	n/t	n/t	n/t
Loss On Ignition (450°C)	M	%	0.01	1.06	n/t	n/t	n/t	n/t
pH	M	pH units	0.1	8.7	^ 9.1	8.6	8.6	8.4
Soil Organic Matter	U	%	0.1	0.6	0.3	n/t	n/t	n/t
Total Organic Carbon	N	%	0.01	0.19	0.26	n/t	n/t	n/t
Total Nitrogen	N	%	0.01	0.03	0.02	n/t	n/t	n/t



Results Summary

2683

Report No.: 21-35713, issue number 1

ELAB Reference	249373	249374	249376	249377	249378
Customer Reference	2	3	5	6	7
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	BH02	BH02	BH02	BH02	BH02
Sample Depth (m)	0.70	1.30	3.50	6.00	9.00
Sampling Date	22/08/2021	22/08/2021	22/08/2021	22/08/2021	22/08/2021

Determinand	Codes	Units	LOD					
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	< 0.1	^ < 0.1	n/t	n/t	n/t
Acenaphthylene	M	mg/kg	0.1	< 0.1	^ < 0.1	n/t	n/t	n/t
Acenaphthene	M	mg/kg	0.1	< 0.1	^ < 0.1	n/t	n/t	n/t
Fluorene	M	mg/kg	0.1	< 0.1	^ < 0.1	n/t	n/t	n/t
Phenanthrene	M	mg/kg	0.1	< 0.1	^ < 0.1	n/t	n/t	n/t
Anthracene	M	mg/kg	0.1	< 0.1	^ < 0.1	n/t	n/t	n/t
Fluoranthene	M	mg/kg	0.1	0.1	^ < 0.1	n/t	n/t	n/t
Pyrene	M	mg/kg	0.1	< 0.1	^ < 0.1	n/t	n/t	n/t
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	^ < 0.1	n/t	n/t	n/t
Chrysene	M	mg/kg	0.1	< 0.1	^ < 0.1	n/t	n/t	n/t
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	^ < 0.1	n/t	n/t	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	^ < 0.1	n/t	n/t	n/t
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	^ < 0.1	n/t	n/t	n/t
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	^ < 0.1	n/t	n/t	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	^ < 0.1	n/t	n/t	n/t
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1	^ < 0.1	n/t	n/t	n/t
Total PAH(16)	M	mg/kg	0.4	0.5	^ < 0.4	n/t	n/t	n/t
Total PAH (Including Coronene GC-FID)	N	mg/kg	2	< 2	n/t	n/t	n/t	n/t
BTEX								
Benzene	M	ug/kg	10	g < 10.0	g^ < 10.0	n/t	n/t	n/t
Toluene	M	ug/kg	10	g < 10.0	g^ < 10.0	n/t	n/t	n/t
Ethylbenzene	M	ug/kg	10	g < 10.0	g^ < 10.0	n/t	n/t	n/t
Xylenes	M	ug/kg	10	g < 10.0	g^ < 10.0	n/t	n/t	n/t
MTBE	N	ug/kg	10	g < 10.0	g < 10.0	n/t	n/t	n/t
Total BTEX	N	mg/kg	0.01	g < 0.01	n/t	n/t	n/t	n/t
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	n/t	n/t	n/t
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	n/t	n/t	n/t
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	n/t	n/t	n/t
>C10-C12 Aliphatic	M	mg/kg	1	< 1.0	^ < 1.0	n/t	n/t	n/t
>C12-C16 Aliphatic	M	mg/kg	1	< 1.0	^ < 1.0	n/t	n/t	n/t
>C16-C21 Aliphatic	M	mg/kg	1	< 1.0	^ < 1.0	n/t	n/t	n/t
>C21-C35 Aliphatic	M	mg/kg	1	< 1.0	^ < 1.0	n/t	n/t	n/t
>C35-C40 Aliphatic	M	mg/kg	1	< 1.0	^ < 1.0	n/t	n/t	n/t
Total aliphatic hydrocarbons (>C5 - C40)	N	mg/kg	1	1.2	< 1.0	n/t	n/t	n/t
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01	n/t	n/t	n/t
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01	n/t	n/t	n/t
>C8-C10 Aromatic	N	mg/kg	1	< 1.0	< 1.0	n/t	n/t	n/t
>C10-C12 Aromatic	M	mg/kg	1	< 1.0	^ < 1.0	n/t	n/t	n/t
>C12-C16 Aromatic	M	mg/kg	1	< 1.0	^ < 1.0	n/t	n/t	n/t
>C16-C21 Aromatic	M	mg/kg	1	< 1.0	^ < 1.0	n/t	n/t	n/t
>C21-C35 Aromatic	M	mg/kg	1	< 1.0	^ < 1.0	n/t	n/t	n/t
>C35-C40 Aromatic	M	mg/kg	1	< 1.0	^ < 1.0	n/t	n/t	n/t
Total aromatic hydrocarbons (>C5 - C40)	N	mg/kg	1	< 1.0	< 1.0	n/t	n/t	n/t
Total petroleum hydrocarbons (>C5 - C40)	N	mg/kg	1	1.3	< 1.0	n/t	n/t	n/t
Total Petroleum Hydrocarbons								
Mineral Oil	M	mg/kg	5	< 5	n/t	n/t	n/t	n/t
PCB (ICES 7 congeners)								
PCB (Total of 7 Congeners)	M	mg/kg	0.03	< 0.03	n/t	n/t	n/t	n/t

Results Summary

2683

Report No.: 21-35713, issue number 1

ELAB Reference	249379	249380	249381
Customer Reference	8	9	10
Sample ID			
Sample Type	SOIL	SOIL	SOIL
Sample Location	BH02	BH02	BH02
Sample Depth (m)	12.00	15.00	18.00
Sampling Date	22/08/2021	22/08/2021	22/08/2021

Determinand	Codes	Units	LOD			
Soil sample preparation parameters						
Moisture Content	N	%	0.1	n/t	n/t	n/t
Material removed	N	%	0.1	< 0.1	< 0.1	< 0.1
Description of Inert material removed	N		0	None	None	None
Metals						
Arsenic	M	mg/kg	1	n/t	n/t	n/t
Barium	U	mg/kg	10	n/t	n/t	n/t
Beryllium	U	mg/kg	1	n/t	n/t	n/t
Cadmium	M	mg/kg	0.5	n/t	n/t	n/t
Chromium	M	mg/kg	5	n/t	n/t	n/t
Chromium (III)	N	mg/kg	5	n/t	n/t	n/t
Copper	M	mg/kg	5	n/t	n/t	n/t
Lead	M	mg/kg	5	n/t	n/t	n/t
Mercury	M	mg/kg	0.5	n/t	n/t	n/t
Molybdenum	N	mg/kg	0.5	n/t	n/t	n/t
Nickel	M	mg/kg	5	n/t	n/t	n/t
Phosphorus	N	mg/kg	42	n/t	n/t	n/t
Selenium	M	mg/kg	1	n/t	n/t	n/t
Vanadium	M	mg/kg	5	n/t	n/t	n/t
Zinc	M	mg/kg	5	n/t	n/t	n/t
Anions						
Water Soluble Sulphate	M	g/l	0.02	0.43	0.23	0.09
Inorganics						
Carbonate	N	%	0.1	n/t	n/t	n/t
Acid Soluble Chloride	N	%	0.01	n/t	n/t	n/t
Hexavalent Chromium	N	mg/kg	0.8	n/t	n/t	n/t
Total Sulphide	N	mg/kg	2	n/t	n/t	n/t
Total Sulphur	N	%	0.01	0.76	0.64	0.16
Acid Soluble Sulphate (SO4)	U	%	0.02	0.12	0.08	0.04
Water Soluble Boron	N	mg/kg	0.5	n/t	n/t	n/t
Miscellaneous						
Acid Neutralisation Capacity	N	mol/kg	0.1	n/t	n/t	n/t
Fraction of Organic Carbon	N		0.0001	n/t	n/t	n/t
Loss On Ignition (450°C)	M	%	0.01	n/t	n/t	n/t
pH	M	pH units	0.1	8.5	9.0	9.1
Soil Organic Matter	U	%	0.1	n/t	n/t	n/t
Total Organic Carbon	N	%	0.01	n/t	n/t	n/t
Total Nitrogen	N	%	0.01	n/t	n/t	n/t

Results Summary

2683

Report No.: 21-35713, issue number 1

ELAB Reference	249379	249380	249381
Customer Reference	8	9	10
Sample ID			
Sample Type	SOIL	SOIL	SOIL
Sample Location	BH02	BH02	BH02
Sample Depth (m)	12.00	15.00	18.00
Sampling Date	22/08/2021	22/08/2021	22/08/2021

Determinand	Codes	Units	LOD			
Polyaromatic hydrocarbons						
Naphthalene	M	mg/kg	0.1	n/t	n/t	n/t
Acenaphthylene	M	mg/kg	0.1	n/t	n/t	n/t
Acenaphthene	M	mg/kg	0.1	n/t	n/t	n/t
Fluorene	M	mg/kg	0.1	n/t	n/t	n/t
Phenanthrene	M	mg/kg	0.1	n/t	n/t	n/t
Anthracene	M	mg/kg	0.1	n/t	n/t	n/t
Fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t
Pyrene	M	mg/kg	0.1	n/t	n/t	n/t
Benzo(a)anthracene	M	mg/kg	0.1	n/t	n/t	n/t
Chrysene	M	mg/kg	0.1	n/t	n/t	n/t
Benzo(b)fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t
Benzo(a)pyrene	M	mg/kg	0.1	n/t	n/t	n/t
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	n/t	n/t	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	n/t	n/t	n/t
Benzo[g,h,i]perylene	M	mg/kg	0.1	n/t	n/t	n/t
Total PAH(16)	M	mg/kg	0.4	n/t	n/t	n/t
Total PAH (Including Coronene GC-FID)	N	mg/kg	2	n/t	n/t	n/t
BTEX						
Benzene	M	ug/kg	10	n/t	n/t	n/t
Toluene	M	ug/kg	10	n/t	n/t	n/t
Ethylbenzene	M	ug/kg	10	n/t	n/t	n/t
Xylenes	M	ug/kg	10	n/t	n/t	n/t
MTBE	N	ug/kg	10	n/t	n/t	n/t
Total BTEX	N	mg/kg	0.01	n/t	n/t	n/t
TPH CWG						
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t
>C8-C10 Aliphatic	N	mg/kg	1	n/t	n/t	n/t
>C10-C12 Aliphatic	M	mg/kg	1	n/t	n/t	n/t
>C12-C16 Aliphatic	M	mg/kg	1	n/t	n/t	n/t
>C16-C21 Aliphatic	M	mg/kg	1	n/t	n/t	n/t
>C21-C35 Aliphatic	M	mg/kg	1	n/t	n/t	n/t
>C35-C40 Aliphatic	M	mg/kg	1	n/t	n/t	n/t
Total aliphatic hydrocarbons (>C5 - C40)	N	mg/kg	1	n/t	n/t	n/t
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t
>C8-C10 Aromatic	N	mg/kg	1	n/t	n/t	n/t
>C10-C12 Aromatic	M	mg/kg	1	n/t	n/t	n/t
>C12-C16 Aromatic	M	mg/kg	1	n/t	n/t	n/t
>C16-C21 Aromatic	M	mg/kg	1	n/t	n/t	n/t
>C21-C35 Aromatic	M	mg/kg	1	n/t	n/t	n/t
>C35-C40 Aromatic	M	mg/kg	1	n/t	n/t	n/t
Total aromatic hydrocarbons (>C5 - C40)	N	mg/kg	1	n/t	n/t	n/t
Total petroleum hydrocarbons (>C5 - C40)	N	mg/kg	1	n/t	n/t	n/t
Total Petroleum Hydrocarbons						
Mineral Oil	M	mg/kg	5	n/t	n/t	n/t
PCB (ICES 7 congeners)						
PCB (Total of 7 Congeners)	M	mg/kg	0.03	n/t	n/t	n/t

Results Summary

Report No.: 21-35713, issue number 1

WAC Analysis

Elab Ref:	249373					Landfill Waste Acceptance Criteria Limits*		
Sample Date:	22/08/2021					Inert Waste Landfill	Stable Non-reactive Hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:	BH02 2							
Depth (m)	0.7							
Site:	Great Ormond St Hospital							
Determinand		Code	Units					
Total Organic Carbon		N	%		0.19	3	5	6
Loss on Ignition		M	%		1.1	--	--	10
Total BTEX		M	mg/kg		< 0.01	6	--	--
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	--	--
TPH Total WAC		M	mg/kg		< 5	500	--	--
Total (of 17) PAHs		N	mg/kg		< 2	100	--	--
pH		M			8.7	--	>6	--
Acid Neutralisation Capacity		N	mol/kg		< 0.1	--	To evaluate	To evaluate

Eluate Analysis

			10:1	10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg		
			mg/l	mg/kg			
Arsenic		N	< 0.005	< 0.05	0.5	2	25
Barium		N	0.010	0.10	20	100	300
Cadmium		N	< 0.001	< 0.01	0.04	1	5
Chromium		N	< 0.005	< 0.05	0.5	10	70
Copper		N	< 0.005	< 0.05	2	50	100
Mercury		N	< 0.005	< 0.01	0.01	0.2	2
Molybdenum		N	0.006	0.06	0.5	10	30
Nickel		N	< 0.001	< 0.05	0.4	10	40
Lead		N	< 0.001	< 0.05	0.5	10	50
Antimony		N	< 0.005	< 0.05	0.06	0.7	5
Selenium		N	< 0.005	< 0.05	0.1	0.5	7
Zinc		N	< 0.005	< 0.05	4	50	200
Chloride		N	< 5	< 50	800	15000	25000
Fluoride		N	< 5	< 10	10	150	500
Sulphate		N	3	28.30	1000	20000	50000
Total Dissolved Solids		N	52	521.00	4000	60000	100000
Phenol Index		N	< 0.01	< 0.10	1	-	-
Dissolved Organic Carbon		N	2.470	25.00	500	800	1000

Leach Test Information

pH		N	7.6					
Conductivity (uS/cm)		N	78					
Dry mass of test portion (g)			102.000					
Dry Matter (%)			94					
Moisture (%)			6					
Eluent Volume (ml)			980					

Results are expressed on a dry weight basis, after correction for moisture content where applicable

* Stated limits are for guidance only, and not for conformity assessment.



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Results Summary

Report No.: 21-35713, issue number 1

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
249373	0.70	BH02 2	Brown Soil, Stones, Clinker	No asbestos detected	n/t	n/t	n/t	n/t
249374	1.30	BH02 3	Brown Soil, Stones	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 21-35713, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Sulphide	N	As submitted sample	02/09/2021	109	Colorimetry
Hexavalent chromium	N	As submitted sample	02/09/2021	110	Colorimetry
Acid Soluble Sulphate	U	Air dried sample	03/09/2021	115	Ion Chromatography
Soil organic matter	U	Air dried sample	06/09/2021	119	Titrimetry
PAH (GC-FID)	M	As submitted sample	02/09/2021	133	GC-FID
Water soluble anions	M	Air dried sample	02/09/2021	172	Ion Chromatography
Low range Aliphatic hydrocarbons soil	N	As submitted sample	06/09/2021	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	06/09/2021	181	GC-MS
Water soluble boron	N	Air dried sample	02/09/2021	202	Colorimetry
TPH CWG soil by gc-gc	M	As submitted sample	01/09/2021	271	
Asbestos identification	U	Air dried sample	06/09/2021	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	02/09/2021	300	ICPMS
Soil organic matter	U	Air dried sample	06/09/2021	BS1377:P3	Titrimetry
Leachate					
Arsenic	N		06/09/2021	301	ICPMS
Cadmium	N		06/09/2021	301	ICPMS
Chromium	N		06/09/2021	301	ICPMS
Lead	N		06/09/2021	301	ICPMS
Nickel	N		06/09/2021	301	ICPMS
Copper	N		06/09/2021	301	ICPMS
Zinc	N		06/09/2021	301	ICPMS
Mercury	N		06/09/2021	301	ICPMS
Selenium	N		06/09/2021	301	ICPMS
Antimony	N		06/09/2021	301	ICPMS
Barium	N		06/09/2021	301	ICPMS
Molybdenum	N		06/09/2021	301	ICPMS
pH Value	N		06/09/2021	113	Electrometric
Electrical Conductivity	N		06/09/2021	136	Probe
Dissolved Organic Carbon	N		06/09/2021	102	TOC analyser
Chloride	N		06/09/2021	131	Ion Chromatography
Fluoride	N		06/09/2021	131	Ion Chromatography
Sulphate	N		06/09/2021	131	Ion Chromatography
Total Dissolved Solids	N		06/09/2021	144	Gravimetric
Phenol index	N		06/09/2021	121	HPLC
WAC Solids analysis	N				
pH Value	M	Air dried sample	03/09/2021	113	Electrometric
Total Organic Carbon	N	Air dried sample	02/09/2021	210	IR
Loss on Ignition	M	Air dried sample	02/09/2021	129	Gravimetric
Acid Neutralization Capacity to pH 7	N	Air dried sample	03/09/2021	NEN 737	Electrometric
Total BTEX	M	As submitted sample	06/09/2021	181	GCMS
Mineral Oil	M	As submitted sample	02/09/2021	117	GCFID
Total PCBs (7 congeners)	M	Air dried sample	02/09/2021	120	GCMS
Total PAH (17)	N	As submitted sample	06/09/2021	133	GCFID

Tests marked N are not UKAS accredited

Report Information

Report No.: 21-35713, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

LOD LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.
Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.
ELAB are unable to provide an interpretation or opinion on the content of this report.
The results relate only to the sample received.
PCB congener results may include any coeluting PCBs
Uncertainty of measurement for the determinands tested are available upon request
Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

-
- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage



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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-35725

Issue: 1

Date of Issue: 08/09/2021

Contact: Will Moody

Customer Details: A2 Site Investigation Limited
One Westminster Bridge Road
South Bank
London
SE1 7XW

Quotation No: Q20-01974

Order No: Not Supplied

Customer Reference: 12921

Date Received: 01/09/2021

Date Approved: 08/09/2021

Details: Great Ormond St Hospital

Approved by:

Tim Reeve, Quality Officer

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 21-35725, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
249454	TP10 1 0.40	24/08/2021	01/09/2021	Loamy sand	f
249455	TP09 2 0.67	24/08/2021	01/09/2021	Loamy sand	f
249456	TP08 3 0.70	27/08/2021	01/09/2021	Loamy sand	
249457	TP07 4 1.00	27/08/2021	01/09/2021	Sand	
249458	BH03 5 0.40	27/08/2021	01/09/2021		
249459	BH03 6 2.50	27/08/2021	01/09/2021		
249460	BH03 7 3.50	27/08/2021	01/09/2021	Clay	
249461	BH03 8 6.50	27/08/2021	01/09/2021	Clay	
249462	BH03 9 9.50	27/08/2021	01/09/2021	Clay	
249463	BH03 10 12.00	27/08/2021	01/09/2021		
249464	BH03 11 15.00	27/08/2021	01/09/2021	Clay	
249465	BH03 12 18.00	27/08/2021	01/09/2021	Clay	
249466	BH03 13 18.00	27/08/2021	01/09/2021		
249467	BH03 14 21.00	27/08/2021	01/09/2021	Clay	
249468	TP06 15 1.00	31/08/2021	01/09/2021	Sand	

Results Summary

2683

Report No.: 21-35725, issue number 1

ELAB Reference	249454	249455	249456	249457	249460
Customer Reference	1	2	3	4	7
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TP10	TP09	TP08	TP07	BH03
Sample Depth (m)	0.40	0.67	0.70	1.00	3.50
Sampling Date	24/08/2021	24/08/2021	27/08/2021	27/08/2021	27/08/2021

Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Moisture Content	N	%	0.1	4.1	10.5	6.8	7.2	n/t
Material removed	N	%	0.1	62.5	53.1	65.5	52.0	< 0.1
Description of Inert material removed	N		0	Stones	Stones	Stones	Stones	None
Metals								
Arsenic	M	mg/kg	1	10.8	14.9	15.5	20.8	n/t
Barium	U	mg/kg	10	882	365	703	77.4	n/t
Beryllium	U	mg/kg	1	< 1.0	< 1.0	< 1.0	1.0	n/t
Cadmium	M	mg/kg	0.5	0.7	< 0.5	0.6	< 0.5	n/t
Chromium	M	mg/kg	5	16.3	36.7	32.0	51.2	n/t
Chromium (III)	N	mg/kg	5	16.3	36.7	32.0	51.2	n/t
Copper	M	mg/kg	5	9.3	28.7	28.4	14.2	n/t
Lead	M	mg/kg	5	50.8	90.7	87.6	15.6	n/t
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	n/t
Molybdenum	N	mg/kg	0.5	0.7	1.3	1.6	2.7	n/t
Nickel	M	mg/kg	5	14.2	22.8	21.0	38.1	n/t
Phosphorus	N	mg/kg	42	236	950	1110	424	n/t
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	n/t
Vanadium	M	mg/kg	5	15.3	45.2	44.5	49.1	n/t
Zinc	M	mg/kg	5	157	157	221	53.3	n/t
Anions								
Water Soluble Sulphate	M	g/l	0.02	n/t	n/t	n/t	n/t	0.31
Inorganics								
Carbonate	N	%	0.1	47	14	60	0.5	n/t
Acid Soluble Chloride	N	%	0.01	0.04	0.04	0.02	0.01	n/t
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	n/t
Total Sulphide	N	mg/kg	2	4	4	< 2	< 2	n/t
Total Sulphur	N	%	0.01	n/t	n/t	n/t	n/t	1.1
Acid Soluble Sulphate (SO4)	U	%	0.02	0.10	0.16	0.16	< 0.02	0.09
Water Soluble Boron	N	mg/kg	0.5	0.6	0.8	0.9	< 0.5	n/t
Miscellaneous								
Acid Neutralisation Capacity	N	mol/kg	0.1	n/t	0.1	n/t	n/t	n/t
Fraction of Organic Carbon	N		0.0001	0.0209	0.0053	0.0045	0.0008	n/t
Loss On Ignition (450°C)	M	%	0.01	n/t	2.02	n/t	n/t	n/t
pH	M	pH units	0.1	10.0	11.1	9.0	9.0	8.2
Soil Organic Matter	U	%	0.1	0.5	1.0	0.7	0.3	n/t
Total Organic Carbon	N	%	0.01	2.1	0.53	0.45	0.08	n/t
Total Nitrogen	N	%	0.01	0.03	0.03	0.03	0.02	n/t



Results Summary

2683

Report No.: 21-35725, issue number 1

ELAB Reference	249454	249455	249456	249457	249460
Customer Reference	1	2	3	4	7
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TP10	TP09	TP08	TP07	BH03
Sample Depth (m)	0.40	0.67	0.70	1.00	3.50
Sampling Date	24/08/2021	24/08/2021	27/08/2021	27/08/2021	27/08/2021

Determinand	Codes	Units	LOD					
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t
Phenanthrene	M	mg/kg	0.1	< 0.1	0.3	0.9	< 0.1	n/t
Anthracene	M	mg/kg	0.1	< 0.1	0.1	0.4	< 0.1	n/t
Fluoranthene	M	mg/kg	0.1	< 0.1	0.6	3.1	< 0.1	n/t
Pyrene	M	mg/kg	0.1	< 0.1	1.9	2.7	< 0.1	n/t
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	1.1	1.8	< 0.1	n/t
Chrysene	M	mg/kg	0.1	< 0.1	1.6	2.1	< 0.1	n/t
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	2.8	2.7	< 0.1	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	1.7	2.1	< 0.1	n/t
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	1.5	2.3	< 0.1	n/t
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	1.7	2.2	< 0.1	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	0.5	0.5	< 0.1	n/t
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1	1.8	1.9	< 0.1	n/t
Total PAH(16)	M	mg/kg	0.4	< 0.4	16.0	23.0	< 0.4	n/t
Total PAH (Including Coronene GC-FID)	N	mg/kg	2	n/t	17	n/t	n/t	n/t
BTEX								
Benzene	M	ug/kg	10	f < 10.0	f < 10.0	< 10.0	< 10.0	n/t
Toluene	M	ug/kg	10	f < 10.0	f < 10.0	< 10.0	< 10.0	n/t
Ethylbenzene	M	ug/kg	10	f < 10.0	f < 10.0	< 10.0	< 10.0	n/t
Xylenes	M	ug/kg	10	f < 10.0	f < 10.0	< 10.0	< 10.0	n/t
MTBE	N	ug/kg	10	f < 10.0	f < 10.0	< 10.0	< 10.0	n/t
Total BTEX	N	mg/kg	0.01	n/t	f < 0.01	n/t	n/t	n/t
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	f < 0.01	f < 0.01	< 0.01	< 0.01	n/t
>C6-C8 Aliphatic	N	mg/kg	0.01	f < 0.01	f < 0.01	< 0.01	< 0.01	n/t
>C8-C10 Aliphatic	N	mg/kg	1	f < 1.0	f < 1.0	< 1.0	< 1.0	n/t
>C10-C12 Aliphatic	M	mg/kg	1	f < 1.0	f < 1.0	< 1.0	< 1.0	n/t
>C12-C16 Aliphatic	M	mg/kg	1	f < 1.0	f 1.8	< 1.0	< 1.0	n/t
>C16-C21 Aliphatic	M	mg/kg	1	f 1.0	f 9.2	1.3	< 1.0	n/t
>C21-C35 Aliphatic	M	mg/kg	1	f 19.8	f 173	4.2	< 1.0	n/t
>C35-C40 Aliphatic	M	mg/kg	1	f 14.0	f 14.5	1.6	< 1.0	n/t
Total aliphatic hydrocarbons (>C5 - C40)	N	mg/kg	1	f 35.1	f 198	7.4	< 1.0	n/t
>C5-C7 Aromatic	N	mg/kg	0.01	f < 0.01	f < 0.01	< 0.01	< 0.01	n/t
>C7-C8 Aromatic	N	mg/kg	0.01	f < 0.01	f < 0.01	< 0.01	< 0.01	n/t
>C8-C10 Aromatic	N	mg/kg	1	f < 1.0	f < 1.0	< 1.0	< 1.0	n/t
>C10-C12 Aromatic	M	mg/kg	1	f < 1.0	f < 1.0	< 1.0	< 1.0	n/t
>C12-C16 Aromatic	M	mg/kg	1	f < 1.0	f 3.0	1.1	< 1.0	n/t
>C16-C21 Aromatic	M	mg/kg	1	f 1.9	f 13.1	6.1	< 1.0	n/t
>C21-C35 Aromatic	M	mg/kg	1	f 28.6	f 162	31.8	< 1.0	n/t
>C35-C40 Aromatic	M	mg/kg	1	f 24.2	f 14.8	6.5	< 1.0	n/t
Total aromatic hydrocarbons (>C5 - C40)	N	mg/kg	1	f 55.1	f 193	45.6	< 1.0	n/t
Total petroleum hydrocarbons (>C5 - C40)	N	mg/kg	1	f 90.1	f 392	53.0	< 1.0	n/t
Total Petroleum Hydrocarbons								
Mineral Oil	M	mg/kg	5	n/t	f 1090	n/t	n/t	n/t
PCB (ICES 7 congeners)								
PCB (Total of 7 Congeners)	M	mg/kg	0.03	n/t	< 0.03	n/t	n/t	n/t

Results Summary

2683

Report No.: 21-35725, issue number 1

ELAB Reference	249461	249462	249464	249465	249467
Customer Reference	8	9	11	12	14
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	BH03	BH03	BH03	BH03	BH03
Sample Depth (m)	6.50	9.50	15.00	18.00	21.00
Sampling Date	27/08/2021	27/08/2021	27/08/2021	27/08/2021	27/08/2021

Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Moisture Content	N	%	0.1	n/t	n/t	n/t	n/t	n/t
Material removed	N	%	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Description of Inert material removed	N		0	None	None	None	None	None
Metals								
Arsenic	M	mg/kg	1	n/t	n/t	n/t	n/t	n/t
Barium	U	mg/kg	10	n/t	n/t	n/t	n/t	n/t
Beryllium	U	mg/kg	1	n/t	n/t	n/t	n/t	n/t
Cadmium	M	mg/kg	0.5	n/t	n/t	n/t	n/t	n/t
Chromium	M	mg/kg	5	n/t	n/t	n/t	n/t	n/t
Chromium (III)	N	mg/kg	5	n/t	n/t	n/t	n/t	n/t
Copper	M	mg/kg	5	n/t	n/t	n/t	n/t	n/t
Lead	M	mg/kg	5	n/t	n/t	n/t	n/t	n/t
Mercury	M	mg/kg	0.5	n/t	n/t	n/t	n/t	n/t
Molybdenum	N	mg/kg	0.5	n/t	n/t	n/t	n/t	n/t
Nickel	M	mg/kg	5	n/t	n/t	n/t	n/t	n/t
Phosphorus	N	mg/kg	42	n/t	n/t	n/t	n/t	n/t
Selenium	M	mg/kg	1	n/t	n/t	n/t	n/t	n/t
Vanadium	M	mg/kg	5	n/t	n/t	n/t	n/t	n/t
Zinc	M	mg/kg	5	n/t	n/t	n/t	n/t	n/t
Anions								
Water Soluble Sulphate	M	g/l	0.02	0.28	0.75	0.47	0.07	0.04
Inorganics								
Carbonate	N	%	0.1	n/t	n/t	n/t	n/t	n/t
Acid Soluble Chloride	N	%	0.01	n/t	n/t	n/t	n/t	n/t
Hexavalent Chromium	N	mg/kg	0.8	n/t	n/t	n/t	n/t	n/t
Total Sulphide	N	mg/kg	2	n/t	n/t	n/t	n/t	n/t
Total Sulphur	N	%	0.01	0.93	4.2	0.82	0.08	0.03
Acid Soluble Sulphate (SO4)	U	%	0.02	0.08	0.16	0.12	0.03	< 0.02
Water Soluble Boron	N	mg/kg	0.5	n/t	n/t	n/t	n/t	n/t
Miscellaneous								
Acid Neutralisation Capacity	N	mol/kg	0.1	n/t	n/t	n/t	n/t	n/t
Fraction of Organic Carbon	N		0.0001	n/t	n/t	n/t	n/t	n/t
Loss On Ignition (450°C)	M	%	0.01	n/t	n/t	n/t	n/t	n/t
pH	M	pH units	0.1	8.2	7.7	8.0	9.1	9.2
Soil Organic Matter	U	%	0.1	n/t	n/t	n/t	n/t	n/t
Total Organic Carbon	N	%	0.01	n/t	n/t	n/t	n/t	n/t
Total Nitrogen	N	%	0.01	n/t	n/t	n/t	n/t	n/t

Results Summary

2683

Report No.: 21-35725, issue number 1

ELAB Reference	249461	249462	249464	249465	249467
Customer Reference	8	9	11	12	14
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	BH03	BH03	BH03	BH03	BH03
Sample Depth (m)	6.50	9.50	15.00	18.00	21.00
Sampling Date	27/08/2021	27/08/2021	27/08/2021	27/08/2021	27/08/2021

Determinand	Codes	Units	LOD					
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Acenaphthylene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Acenaphthene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Fluorene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Phenanthrene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Anthracene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Pyrene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Benzo(a)anthracene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Chrysene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Benzo(b)fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Benzo(a)pyrene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Benzo[g,h,i]perylene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Total PAH(16)	M	mg/kg	0.4	n/t	n/t	n/t	n/t	n/t
Total PAH (Including Coronene GC-FID)	N	mg/kg	2	n/t	n/t	n/t	n/t	n/t
BTEX								
Benzene	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Toluene	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Ethylbenzene	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Xylenes	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
MTBE	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Total BTEX	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t
>C8-C10 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C10-C12 Aliphatic	M	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C12-C16 Aliphatic	M	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C16-C21 Aliphatic	M	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C21-C35 Aliphatic	M	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C35-C40 Aliphatic	M	mg/kg	1	n/t	n/t	n/t	n/t	n/t
Total aliphatic hydrocarbons (>C5 - C40)	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t
>C8-C10 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C10-C12 Aromatic	M	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C12-C16 Aromatic	M	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C16-C21 Aromatic	M	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C21-C35 Aromatic	M	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C35-C40 Aromatic	M	mg/kg	1	n/t	n/t	n/t	n/t	n/t
Total aromatic hydrocarbons (>C5 - C40)	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
Total petroleum hydrocarbons (>C5 - C40)	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
Total Petroleum Hydrocarbons								
Mineral Oil	M	mg/kg	5	n/t	n/t	n/t	n/t	n/t
PCB (ICES 7 congeners)								
PCB (Total of 7 Congeners)	M	mg/kg	0.03	n/t	n/t	n/t	n/t	n/t



Results Summary

2683

Report No.: 21-35725, issue number 1

ELAB Reference	249468
Customer Reference	15
Sample ID	
Sample Type	SOIL
Sample Location	TP06
Sample Depth (m)	1.00
Sampling Date	31/08/2021

Determinand	Codes	Units	LOD	
Soil sample preparation parameters				
Moisture Content	N	%	0.1	5.5
Material removed	N	%	0.1	68.4
Description of Inert material removed	N		0	Stones
Metals				
Arsenic	M	mg/kg	1	11.2
Barium	U	mg/kg	10	376
Beryllium	U	mg/kg	1	< 1.0
Cadmium	M	mg/kg	0.5	0.8
Chromium	M	mg/kg	5	19.5
Chromium (III)	N	mg/kg	5	19.5
Copper	M	mg/kg	5	14.5
Lead	M	mg/kg	5	73.6
Mercury	M	mg/kg	0.5	< 0.5
Molybdenum	N	mg/kg	0.5	0.7
Nickel	M	mg/kg	5	18.5
Phosphorus	N	mg/kg	42	270
Selenium	M	mg/kg	1	< 1.0
Vanadium	M	mg/kg	5	25.7
Zinc	M	mg/kg	5	198
Anions				
Water Soluble Sulphate	M	g/l	0.02	n/t
Inorganics				
Carbonate	N	%	0.1	25
Acid Soluble Chloride	N	%	0.01	0.03
Hexavalent Chromium	N	mg/kg	0.8	< 0.8
Total Sulphide	N	mg/kg	2	3
Total Sulphur	N	%	0.01	n/t
Acid Soluble Sulphate (SO ₄)	U	%	0.02	0.07
Water Soluble Boron	N	mg/kg	0.5	< 0.5
Miscellaneous				
Acid Neutralisation Capacity	N	mol/kg	0.1	n/t
Fraction of Organic Carbon	N		0.0001	0.0007
Loss On Ignition (450°C)	M	%	0.01	n/t
pH	M	pH units	0.1	9.5
Soil Organic Matter	U	%	0.1	0.3
Total Organic Carbon	N	%	0.01	0.07
Total Nitrogen	N	%	0.01	0.02



Results Summary

2683

Report No.: 21-35725, issue number 1

ELAB Reference	249468
Customer Reference	15
Sample ID	
Sample Type	SOIL
Sample Location	TP06
Sample Depth (m)	1.00
Sampling Date	31/08/2021

Determinand	Codes	Units	LOD	
Polyaromatic hydrocarbons				
Naphthalene	M	mg/kg	0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	< 0.1
Pyrene	M	mg/kg	0.1	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1
Chrysene	M	mg/kg	0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	< 0.4
Total PAH (Including Coronene GC-FID)	N	mg/kg	2	n/t
BTEX				
Benzene	M	ug/kg	10	< 10.0
Toluene	M	ug/kg	10	< 10.0
Ethylbenzene	M	ug/kg	10	< 10.0
Xylenes	M	ug/kg	10	< 10.0
MTBE	N	ug/kg	10	< 10.0
Total BTEX	N	mg/kg	0.01	n/t
TPH CWG				
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0
>C10-C12 Aliphatic	M	mg/kg	1	< 1.0
>C12-C16 Aliphatic	M	mg/kg	1	< 1.0
>C16-C21 Aliphatic	M	mg/kg	1	< 1.0
>C21-C35 Aliphatic	M	mg/kg	1	< 1.0
>C35-C40 Aliphatic	M	mg/kg	1	< 1.0
Total aliphatic hydrocarbons (>C5 - C40)	N	mg/kg	1	< 1.0
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	< 1.0
>C10-C12 Aromatic	M	mg/kg	1	< 1.0
>C12-C16 Aromatic	M	mg/kg	1	< 1.0
>C16-C21 Aromatic	M	mg/kg	1	< 1.0
>C21-C35 Aromatic	M	mg/kg	1	< 1.0
>C35-C40 Aromatic	M	mg/kg	1	< 1.0
Total aromatic hydrocarbons (>C5 - C40)	N	mg/kg	1	< 1.0
Total petroleum hydrocarbons (>C5 - C40)	N	mg/kg	1	1.1
Total Petroleum Hydrocarbons				
Mineral Oil	M	mg/kg	5	n/t
PCB (ICES 7 congeners)				
PCB (Total of 7 Congeners)	M	mg/kg	0.03	n/t

Results Summary

2683

Report No.: 21-35725, issue number 1

ELAB Reference	249455
Customer Reference	2
Sample ID	
Sample Type	SOIL
Sample Location	TP09
Sample Depth (m)	0.67
Sampling Date	24/08/2021

Determinand	Codes	Units	LOD	
VOC				
Heptane	N	ug/kg	10	< 10.0
Octane	N	ug/kg	10	< 10.0
Nonane	N	ug/kg	10	< 10.0
Benzene	M	ug/kg	10	< 10.0
Toluene	M	ug/kg	10	< 10.0
Ethylbenzene	M	ug/kg	10	< 10.0
m+p-xylene	M	ug/kg	10	< 10.0
o-xylene	M	ug/kg	10	< 10.0
cis-1,2-dichloroethane	N	ug/kg	10	< 10.0
1,1-Dichloroethane	M	ug/kg	10	< 10.0
Chloroform	M	ug/kg	10	< 10.0
Tetrachloromethane	M	ug/kg	10	< 10.0
1,1,1-Trichloroethane	M	ug/kg	10	< 10.0
Trichloroethylene	M	ug/kg	10	< 10.0
Tetrachloroethylene	M	ug/kg	10	< 10.0
1,1,1,2-Tetrachloroethane	M	ug/kg	10	< 10.0
1,1,2,2-Tetrachloroetha	M	ug/kg	10	< 10.0
Chlorobenzene	M	ug/kg	10	< 10.0
Bromobenzene	M	ug/kg	10	< 10.0
Bromodichloromethane	M	ug/kg	10	< 10.0
Methylethylbenzene	M	ug/kg	10	< 10.0
1,1-Dichloro-1-propene	M	ug/kg	10	< 10.0
Trans - 1-2 -dichloroethylene	N	ug/kg	10	< 10.0
2,2-Dichloropropane	N	ug/kg	10	< 10.0
Bromochloromethane	N	ug/kg	10	< 10.0
1,2-Dichloroethane	M	ug/kg	10	< 10.0
Dibromomethane	M	ug/kg	10	< 10.0
1,2-Dichloropropane	M	ug/kg	10	< 10.0
cis-1,3-Dichloro-1-propene	M	ug/kg	10	< 10.0
trans-1,3-Dichloro-1-propene	M	ug/kg	10	< 10.0
1,1,2-Trichloroethane	N	ug/kg	10	< 10.0
Dibromochloromethane	N	ug/kg	10	< 10.0
1,3-Dichloropropane	N	ug/kg	10	< 10.0
1,2-dibromoethane	N	ug/kg	10	< 10.0
Styrene	N	ug/kg	10	< 10.0
Propylbenzene	N	ug/kg	10	< 10.0
2-Chlorotoluene	N	ug/kg	10	< 10.0
1,2,4-Trimethylbenzene	N	ug/kg	10	< 10.0
4-Chlorotoluene	N	ug/kg	10	< 10.0
t-butylbenzene	N	ug/kg	10	< 10.0
1,3,5-Trimethylbenzene	N	ug/kg	10	< 10.0
1-methylpropylbenzene	N	ug/kg	10	< 10.0
p-cymene	N	ug/kg	10	< 10.0
1,3-Dichlorobenzene	N	ug/kg	10	< 10.0
Butylbenzene	N	ug/kg	10	< 10.0
1,2-Dibromo-3-chloropropane	N	ug/kg	10	< 10.0
Hexachlorobutadiene	N	ug/kg	10	< 10.0
1-2-3 - Trichlorobenzene	N	ug/kg	10	< 10.0
Naphthalene	N	ug/kg	10	< 10.0
1-2-4 - Trichlorobenzene	N	ug/kg	10	< 10.0
1,4-Dichlorobenzene	N	ug/kg	10	< 10.0
1,2-Dichlorobenzene	N	ug/kg	10	< 10.0
Bromoform	N	ug/kg	10	< 10.0

Results Summary

2683

Report No.: 21-35725, issue number 1

ELAB Reference	249455
Customer Reference	2
Sample ID	
Sample Type	SOIL
Sample Location	TP09
Sample Depth (m)	0.67
Sampling Date	24/08/2021

Determinand	Codes	Units	LOD	
SVOC				
Phenol	N	mg/kg	0.01	f < 0.01
Aniline	N	mg/kg	0.01	f < 0.01
Bis(2-chloroethyl)ether	N	mg/kg	0.01	f < 0.01
2-Chlorophenol	N	mg/kg	0.01	f < 0.01
1,3-Dichlorobenzene	N	mg/kg	0.01	f < 0.01
1,4-Dichlorobenzene	N	mg/kg	0.01	f < 0.01
Benzyl Alcohol	N	mg/kg	0.01	f < 0.01
1,2-Dichlorobenzene	N	mg/kg	0.01	f < 0.01
2-Methylphenol	N	mg/kg	0.01	f < 0.01
Bis(2-chloroisopropyl)ether	N	mg/kg	0.01	f < 0.01
3 and 4-methylphenol	N	mg/kg	0.01	f < 0.01
N-Nitrosodi-n-propylamine	N	mg/kg	0.01	f < 0.01
Hexachloroethane	N	mg/kg	0.01	f < 0.01
Nitrobenzene	N	mg/kg	0.01	f < 0.01
Isophorone	N	mg/kg	0.01	f < 0.01
2-Nitrophenol	N	mg/kg	0.01	f < 0.01
2,4-Dimethylphenol	N	mg/kg	0.01	f < 0.01
Bis(2-chloroethoxy)methane	N	mg/kg	0.01	f < 0.01
2,4-Dichlorophenol	N	mg/kg	0.01	f < 0.01
1,3,5-Trichlorobenzene	N	mg/kg	0.01	f < 0.01
Naphthalene	N	mg/kg	0.01	f 0.04
3-Chloroaniline	N	mg/kg	0.01	f < 0.01
Hexachloro-1,3-butadiene	N	mg/kg	0.01	f < 0.01
4-Chloro-3-methylphenol	N	mg/kg	0.01	f < 0.01
2-Methylnaphthalene	N	mg/kg	0.01	f 0.02
1-Methylnaphthalene	N	mg/kg	0.01	f 0.02
Hexachlorocyclopentadiene	N	mg/kg	0.01	f < 0.01
2,4,6-Trichlorophenol	N	mg/kg	0.01	f < 0.01
2,4,5-Trichlorophenol	N	mg/kg	0.01	f < 0.01
1-Chloronaphthalene	N	mg/kg	0.01	f < 0.01
2-Nitroaniline	N	mg/kg	0.01	f < 0.01
1,4-Dinitrobenzene	N	mg/kg	0.01	f < 0.01
Dimethyl phthalate	N	mg/kg	0.01	f < 0.01
1-3-dinitrobenzene	N	mg/kg	0.01	f < 0.01
2-6-dinitrotoluene	N	mg/kg	0.01	f < 0.01
Acenaphthylene	N	mg/kg	0.01	f 0.06
1,2-Dinitrobenzene	N	mg/kg	0.01	f < 0.01
3-Nitroaniline	N	mg/kg	0.01	f < 0.01
Acenaphthene	N	mg/kg	0.01	f 0.02
4-nitrophenol	N	mg/kg	0.01	f < 0.01
Dibenzofuran	N	mg/kg	0.01	f < 0.01
2,3,5,6-Tetrachlorophenol	N	mg/kg	0.01	f < 0.01
2,3,4,6-Tetrachlorophenol	N	mg/kg	0.01	f < 0.01
Diethyl phthalate	N	mg/kg	0.01	f < 0.01
1-chloro-4-phenoxybenzene	N	mg/kg	0.01	f < 0.01
Fluorene	N	mg/kg	0.01	f 0.01
4-Nitroaniline	N	mg/kg	0.01	f < 0.01
Dinitro-o-cresol	N	mg/kg	0.01	f < 0.01
Diphenylamine	N	mg/kg	0.01	f < 0.01
Azobenzene	N	mg/kg	0.01	f < 0.01
1-bromo-4-phenoxybenzene	N	mg/kg	0.01	f < 0.01
Hexachlorobenzene	N	mg/kg	0.01	f < 0.01
Pentachlorophenol	N	mg/kg	0.01	f < 0.01



Results Summary

2683

Report No.: 21-35725, issue number 1

ELAB Reference	249455
Customer Reference	2
Sample ID	
Sample Type	SOIL
Sample Location	TP09
Sample Depth (m)	0.67
Sampling Date	24/08/2021

Determinand	Codes	Units	LOD	
SVOC				
Phenanthrene	N	mg/kg	0.01	f 0.13
Anthracene	N	mg/kg	0.01	f 0.09
Carbazole	N	mg/kg	0.01	f < 0.01
Dibutyl phthalate	N	mg/kg	0.01	f < 0.01
Fluoranthene	N	mg/kg	0.01	f 0.68
Pyrene	N	mg/kg	0.01	f 2.03
Butyl benzyl phthalate	N	mg/kg	0.01	f < 0.01
Bis-2-ethylhexyladipate	N	mg/kg	0.01	f < 0.01
Diisooctyl phthalate	N	mg/kg	0.01	f < 0.01
Benzo(a)anthracene	N	mg/kg	0.01	f 1.21
Chrysene	N	mg/kg	0.01	f 1.46
Bis(2-ethylhexyl)phthalate	N	mg/kg	0.01	f < 0.01
Benzo(b)fluoranthene	N	mg/kg	0.01	f 1.91
Benzo(k)fluoranthene	N	mg/kg	0.01	f 1.72
Benzo(a)pyrene	N	mg/kg	0.01	f 2.19
Indeno(1,2,3-cd)pyrene	N	mg/kg	0.01	f 1.57
Dibenz(ah)anthracene	N	mg/kg	0.01	f 0.52
Benzo[g,h,i]perylene	N	mg/kg	0.01	f 1.80

Results Summary

Report No.: 21-35725, issue number 1

WAC Analysis

Elab Ref:	249455					Landfill Waste Acceptance Criteria Limits*		
Sample Date:	24/08/2021					Inert Waste Landfill	Stable Non-reactive Hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:	TP09 2							
Depth (m)	0.67							
Site:	Great Ormond St Hospital							
Determinand		Code	Units					
Total Organic Carbon		N	%		0.53	3	5	6
Loss on Ignition		M	%		2.0	--	--	10
Total BTEX		M	mg/kg		< 0.01	6	--	--
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	--	--
TPH Total WAC		M	mg/kg		1090	500	--	--
Total (of 17) PAHs		N	mg/kg		17.0	100	--	--
pH		M			11.1	--	>6	--
Acid Neutralisation Capacity		N	mol/kg		0.1	--	To evaluate	To evaluate

Eluate Analysis

		10:1	10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg		
		mg/l	mg/kg			
Arsenic	N	< 0.005	< 0.05	0.5	2	25
Barium	N	0.012	0.12	20	100	300
Cadmium	N	< 0.001	< 0.01	0.04	1	5
Chromium	N	0.011	0.11	0.5	10	70
Copper	N	0.008	0.08	2	50	100
Mercury	N	< 0.005	< 0.01	0.01	0.2	2
Molybdenum	N	< 0.005	< 0.05	0.5	10	30
Nickel	N	0.003	< 0.05	0.4	10	40
Lead	N	< 0.001	< 0.05	0.5	10	50
Antimony	N	< 0.005	< 0.05	0.06	0.7	5
Selenium	N	< 0.005	< 0.05	0.1	0.5	7
Zinc	N	< 0.005	< 0.05	4	50	200
Chloride	N	< 5	< 50	800	15000	25000
Fluoride	N	< 5	< 10	10	150	500
Sulphate	N	18	176.00	1000	20000	50000
Total Dissolved Solids	N	125	1250.00	4000	60000	100000
Phenol Index	N	< 0.01	< 0.10	1	-	-
Dissolved Organic Carbon	N	13.500	135.00	500	800	1000

Leach Test Information

pH	N	8.0				
Conductivity (uS/cm)	N	187				
Dry mass of test portion (g)		103.000				
Dry Matter (%)		86				
Moisture (%)		16				
Eluent Volume (ml)		982				

Results are expressed on a dry weight basis, after correction for moisture content where applicable

* Stated limits are for guidance only, and not for conformity assessment.



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Results Summary

Report No.: 21-35725, issue number 1

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
249454	0.40	TP10 1	Brown Sandy Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
249455	0.67	TP09 2	Brown sandy Soil,Stones,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
249456	0.70	TP08 3	Brown Sandy Soil,Stones,Tar	No asbestos detected	n/t	n/t	n/t	n/t
249457	1.00	TP07 4	Brown sandy Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
249468	1.00	TP06 15	Brown sandy Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 21-35725, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Sulphide	N	As submitted sample	03/09/2021	109	Colorimetry
Hexavalent chromium	N	As submitted sample	03/09/2021	110	Colorimetry
Acid Soluble Sulphate	U	Air dried sample	06/09/2021	115	Ion Chromatography
Soil organic matter	U	Air dried sample	06/09/2021	119	Titrimetry
PAH (GC-FID)	M	As submitted sample	03/09/2021	133	GC-FID
SVOC in solids	N	As submitted sample	03/09/2021	167	GC-MS
Water soluble anions	M	Air dried sample	03/09/2021	172	Ion Chromatography
Low range Aliphatic hydrocarbons soil	N	As submitted sample	06/09/2021	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	06/09/2021	181	GC-MS
VOC in solids	M	As submitted sample	06/09/2021	181	GC-MS
Water soluble boron	N	Air dried sample	03/09/2021	202	Colorimetry
TPH CWG soil by gc-gc	M	As submitted sample	02/09/2021	271	
Asbestos identification	U	Air dried sample	07/09/2021	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	03/09/2021	300	ICPMS
Soil organic matter	U	Air dried sample	06/09/2021	BS1377:P3	Titrimetry
Leachate					
Arsenic	N		07/09/2021	301	ICPMS
Cadmium	N		07/09/2021	301	ICPMS
Chromium	N		07/09/2021	301	ICPMS
Lead	N		07/09/2021	301	ICPMS
Nickel	N		07/09/2021	301	ICPMS
Copper	N		07/09/2021	301	ICPMS
Zinc	N		07/09/2021	301	ICPMS
Mercury	N		07/09/2021	301	ICPMS
Selenium	N		07/09/2021	301	ICPMS
Antimony	N		07/09/2021	301	ICPMS
Barium	N		07/09/2021	301	ICPMS
Molybdenum	N		07/09/2021	301	ICPMS
pH Value	N		07/09/2021	113	Electrometric
Electrical Conductivity	N		07/09/2021	136	Probe
Dissolved Organic Carbon	N		07/09/2021	102	TOC analyser
Chloride	N		07/09/2021	131	Ion Chromatography
Fluoride	N		07/09/2021	131	Ion Chromatography
Sulphate	N		07/09/2021	131	Ion Chromatography
Total Dissolved Solids	N		07/09/2021	144	Gravimetric
Phenol index	N		07/09/2021	121	HPLC
WAC Solids analysis	N				
pH Value	M	Air dried sample	08/09/2021	113	Electrometric
Total Organic Carbon	N	Air dried sample	03/09/2021	210	IR
Loss on Ignition	M	Air dried sample	03/09/2021	129	Gravimetric
Acid Neutralization Capacity to pH 7	N	Air dried sample	06/09/2021	NEN 737	Electrometric
Total BTEX	M	As submitted sample	06/09/2021	181	GCMS
Mineral Oil	M	As submitted sample	03/09/2021	117	GCFID
Total PCBs (7 congeners)	M	Air dried sample	06/09/2021	120	GCMS
Total PAH (17)	N	As submitted sample	07/09/2021	133	GCFID

Tests marked N are not UKAS accredited

Report Information

Report No.: 21-35725, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

LOD LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.
Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.
ELAB are unable to provide an interpretation or opinion on the content of this report.
The results relate only to the sample received.
PCB congener results may include any coeluting PCBs
Uncertainty of measurement for the determinands tested are available upon request
Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

-
- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage



2683



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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-35823

Issue: 1

Date of Issue: 13/09/2021

Contact: Will Moody

Customer Details: A2 Site Investigation Limited
One Westminster Bridge Road
South Bank
London
SE1 7XW

Quotation No: Q20-01974

Order No: 12921

Customer Reference: Not Supplied

Date Received: 03/09/2021

Date Approved: 13/09/2021

Details: Great Ormond St Hospital

Approved by:

Mike Varley, Technical Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 21-35823, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
250075	BH01 1 0.30	03/09/2021	07/09/2021		
250076	BH01 2 1.60	03/09/2021	07/09/2021		
250077	BH01 3 2.40	03/09/2021	07/09/2021		
250078	BH01 4 3.00	03/09/2021	07/09/2021	Clayey loam	
250079	BH01 5 6.00	03/09/2021	07/09/2021	Clayey loam	
250080	BH01 6 9.00	03/09/2021	07/09/2021	Clayey loam	
250081	BH01 7 12.00	03/09/2021	07/09/2021	Clayey loam	
250082	BH01 8 15.00	03/09/2021	07/09/2021	Clayey loam	



Results Summary

2683

Report No.: 21-35823, issue number 1

ELAB Reference	250078	250079	250080	250081	250082
Customer Reference	4	5	6	7	8
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	BH01	BH01	BH01	BH01	BH01
Sample Depth (m)	3.00	6.00	9.00	12.00	15.00
Sampling Date	03/09/2021	03/09/2021	03/09/2021	03/09/2021	03/09/2021

Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Description of Inert material removed	N		0	None	None	None	None	None
Anions								
Water Soluble Sulphate	M	g/l	0.02	0.08	0.23	0.10	0.27	0.42
Inorganics								
Total Sulphur	N	%	0.01	0.33	0.61	0.49	0.49	0.62
Acid Soluble Sulphate (SO4)	U	%	0.02	0.05	0.10	0.08	0.09	0.12
Miscellaneous								
pH	M	pH units	0.1	8.6	8.3	8.5	8.3	8.1



Method Summary

Report No.: 21-35823, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
pH	M	Air dried sample	09/09/2021	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	10/09/2021	115	Ion Chromatography
Water soluble anions	M	Air dried sample	09/09/2021	172	Ion Chromatography
Total organic carbon/Total sulphur	N	Air dried sample	09/09/2021	216	IR

Tests marked N are not UKAS accredited

Report Information

Report No.: 21-35823, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

LOD LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.
Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.
ELAB are unable to provide an interpretation or opinion on the content of this report.
The results relate only to the sample received.
PCB congener results may include any coeluting PCBs
Uncertainty of measurement for the determinands tested are available upon request
Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

-
- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage



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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-35824

Issue: 1

Date of Issue: 13/09/2021

Contact: Will Moody

Customer Details: A2 Site Investigation Limited
One Westminster Bridge Road
South Bank
London
SE1 7XW

Quotation No: Q20-01974

Order No: 12921

Customer Reference: Not Supplied

Date Received: 07/09/2021

Date Approved: 13/09/2021

Details: Great Ormond St Hospital

Approved by:

Mike Varley, Technical Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 21-35824, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
250083	BH01 1 18.00	06/09/2021	07/09/2021		
250084	BH01 2 18.00	06/09/2021	07/09/2021	Clay	
250085	BH01 3 21.00	06/09/2021	07/09/2021		
250086	BH01 4 24.00	06/09/2021	07/09/2021	Clayey loam	
250087	BH01 5 27.00	06/09/2021	07/09/2021		
250088	BH01 6 30.00	06/09/2021	07/09/2021	Clayey loam	
250089	BH01 7 33.00	06/09/2021	07/09/2021		
250090	BH01 8 36.00	06/09/2021	07/09/2021	Clayey loam	



Results Summary

2683

Report No.: 21-35824, issue number 1

ELAB Reference	250084	250086	250088	250090
Customer Reference	2	4	6	8
Sample ID				
Sample Type	SOIL	SOIL	SOIL	SOIL
Sample Location	BH01	BH01	BH01	BH01
Sample Depth (m)	18.00	24.00	30.00	36.00
Sampling Date	06/09/2021	06/09/2021	06/09/2021	06/09/2021

Determinand	Codes	Units	LOD				
Soil sample preparation parameters							
Material removed	N	%	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Description of Inert material removed	N		0	None	None	None	None
Anions							
Water Soluble Sulphate	M	g/l	0.02	0.04	0.08	0.05	0.60
Inorganics							
Total Sulphur	N	%	0.01	0.18	0.03	0.25	0.68
Acid Soluble Sulphate (SO4)	U	%	0.02	0.04	0.04	0.03	0.14
Miscellaneous							
pH	M	pH units	0.1	9.3	9.1	9.3	8.3



Method Summary

Report No.: 21-35824, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
pH	M	Air dried sample	09/09/2021	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	10/09/2021	115	Ion Chromatography
Water soluble anions	M	Air dried sample	09/09/2021	172	Ion Chromatography
Total organic carbon/Total sulphur	N	Air dried sample	09/09/2021	216	IR

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| e | The container has been incorrectly filled |
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Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage



Appendix E: Gas and Groundwater Monitoring Results

Project Name: GOSH
 Project Number: 12921
 Date of Sampling: 15/09/2021

Atmospheric Pressure:
1015

Weather: 20C

BH01							
	30 secs	60 secs	90 secs	120 secs	150 secs	180 secs	Peak Flow
Flow l/h	0	0	0	0	0	0	91.2
CH4 (%)	0	0	0	0	0	0	
Co2 (%)	0	0	0	0	0	0	
o2 (%)	19.9	19.6	19.5	19.1	19.1	19.1	
LEL (%)	0	0	0	0	0	0	
PID	1.8	1.8	1.7	1.5	1.2	1.2	
H2S (ppm)	0	0	0	0	0	0	
CO (ppm)	0	0	0	0	0	0	

BH02							
	30 secs	60 secs	90 secs	120 secs	150 secs	180 secs	Peak Flow
Flow l/h	0	0	0	0	0		-60.5
CH4 (%)	0	0	0	0	0	0	
Co2 (%)	0	0	0	0	0	0	
o2 (%)	20.2	20.1	19.9	19.9	19.9	19.9	
LEL (%)	0	0	0	0	0	0	
PID	0	0	0	0	0	0	
H2S (ppm)	0	0	0	0	0	0	
CO (ppm)	20	21	20	23	23	24	

BH03							
	30 secs	60 secs	90 secs	120 secs	150 secs	180 secs	Peak Flow
Flow l/h	0	0	0	0	0	0	12.5
CH4 (%)	0	0	0	0	0	0	
Co2 (%)	0	0	0	0	0	0.2	
o2 (%)	20.5	20.5	20.5	20.5	20.5	20.5	
LEL (%)	0	0	0	0	0	0	
PID	0.01	0	0	0	0	0.1	
H2S (ppm)	0	0	0	0	0	0	
CO (ppm)	0	0	0	0	0	0	

	Water Level	Well length	
CP01	0.99	2.05	bsl
BH02	1.1	3.01	bsl
BH03	0.77	2.05	bgl

Project Name: GOSH
 Project Number: 12921
 Date of Samling: 01/10/2021

Atmospheric Pressure:
1009

Weather: Partly cloudy, 16C

BH01							
	30 secs	60 secs	90 secs	120 secs	150 secs	180 secs	Peak Flow
Flow l/h	0	0	0	0	0	0	12.5
CH4 (%)	0	0	0	0	0	0	
Co2 (%)	0	0	0	0	0	0	
o2 (%)	19	18.6	18.4	18.3	18.3	18.3	
LEL (%)	0	0	0	0	0	0	
PID	0.2	0.1	0.11	0.1	0.1	0	
H2S (ppm)	0	0	0	0	0	0	
CO (ppm)	10	10	10	10	10	10	

BH02							
	30 secs	60 secs	90 secs	120 secs	150 secs	180 secs	Peak Flow
Flow l/h	0	0	0	0	0		-63.1
CH4 (%)	0	0	0	0	0	0	
Co2 (%)	0	0	0	0	0	0	
o2 (%)	20	20	20	20.1	19.9	19.9	
LEL (%)	0	0	0	0	0	0	
PID	0.1	0.1	0.1	0.1	0	0	
H2S (ppm)	0	0	0	0	0	0	
CO (ppm)	20	21	20	23	23	24	

BH03							
	30 secs	60 secs	90 secs	120 secs	150 secs	180 secs	Peak Flow
Flow l/h	0	0	0	0	0	0	0
CH4 (%)	0	0	0	0	0	0	
Co2 (%)	0.3	0.3	0.3	0.3	0.3	0.3	
o2 (%)	20.5	20.4	20.4	20.4	20.5	20.5	
LEL (%)	0	0	0	0	0	0	
PID	0	0	0	0	0	0	
H2S (ppm)	0	0	0	0	0	0	
CO (ppm)	0	0	0	0	0	0	

	Water Level	Well length	
CP01	0.97	2.04	bsl
BH02	1.04	2.92	bsl
BH03	0.78	2.03	bgl

Project Name: GOSH
 Project Number: 12921
 Date of Samling: 07/10/2021

Atmospheric Pressure:
1022

Weather: Partly cloudy, 17C

BH01							
	30 secs	60 secs	90 secs	120 secs	150 secs	180 secs	Peak Flow
Flow l/h	0	0	0	0	0	0	23.8
CH4 (%)	0	0	0	0	0	0	
Co2 (%)	0	0	0	0	0	0	
o2 (%)	19	18.9	18.9	18.9	18.9	18.9	
LEL (%)	0	0	0	0	0	0	
PID	0	0	0	0	0	0	
H2S (ppm)	0	0	0	0	0	0	
CO (ppm)	10	0	0	0	0	0	

BH02							
	30 secs	60 secs	90 secs	120 secs	150 secs	180 secs	Peak Flow
Flow l/h	0	0	0	0	0	0	0
CH4 (%)	0	0	0	0	0	0	
Co2 (%)	0.1	0	0	0.1	0.1	0.1	
o2 (%)	20.1	20.1	20	20	20	20	
LEL (%)	0	0	0	0	0	0	
PID	0	0	0	0	0	0	
H2S (ppm)	0	0	0	0	0	0	
CO (ppm)	0	0	0	0	0	0	

BH03							
	30 secs	60 secs	90 secs	120 secs	150 secs	180 secs	Peak Flow
Flow l/h	0	0	0	0	0	0	0
CH4 (%)	0	0	0	0	0	0	
Co2 (%)	0	0.1	0	0	0	0	
o2 (%)	20.4	20.6	20.6	20.6	20.6	20.6	
LEL (%)	0	0	0	0	0	0	
PID	0	0	0	0	0	0	
H2S (ppm)	0	0	0	0	0	0	
CO (ppm)	0	0	0	0	0	0	

	Water Level	Well length	
BH01	0.93	2.04	bsl
BH02	1.05	3	bsl
BH03	0.75	2.03	bgl

Project Name: GOSH
 Project Number: 12921
 Date of Samling: 13/10/2021

Atmospheric Pressure:
1024

Weather: cloudy, 11C

BH01							
	30 secs	60 secs	90 secs	120 secs	150 secs	180 secs	Peak Flow
Flow l/h	0	0	0	0	0	0	-53.9
CH4 (%)	0	0	0	0	0	0	
Co2 (%)	0	0	0	0	0	0	
o2 (%)	19.7	19.6	19.6	19.6	19.6	19.6	
LEL (%)	0	0	0	0	0	0	
PID	0	0	0	0	0	0	
H2S (ppm)	0	0	0	0	0	0	
CO (ppm)	10	0	0	0	0	0	

BH02							
	30 secs	60 secs	90 secs	120 secs	150 secs	180 secs	Peak Flow
Flow l/h	0	0	0	0	0	0	-37.4
CH4 (%)	0	0	0	0	0	0	
Co2 (%)	0.1	0.1	0.1	0.1	0.1	0.1	
o2 (%)	20.1	20	20.1	20	20	20	
LEL (%)	0	0	0	0	0	0	
PID	0	0	0	0	0	0	
H2S (ppm)	0	0	0	0	0	0	
CO (ppm)	0	0	0	0	0	0	

BH03							
	30 secs	60 secs	90 secs	120 secs	150 secs	180 secs	Peak Flow
Flow l/h	0	0	0	0	0	0	0
CH4 (%)	0	0	0	0	0	0	
Co2 (%)	0.2	0.2	0.2	0.2	0.2	0.2	
o2 (%)	20.4	20.4	20.3	20.3	20.2	20.2	
LEL (%)	0	0	0	0	0	0	
PID	0	0	0	0	0	0	
H2S (ppm)	0	0	0	0	0	0	
CO (ppm)	0	0	0	0	0	0	

	Water Level	Well length	
BH01	1	2.04	bsl
BH02	1.08	3	bsl
BH03	0.78	2.03	bgl

Project Name: GOSH
 Project Number: 12921
 Date of Samling: 20/10/2021

Atmospheric Pressure:
1023

Weather: mostly cloudy, 16C

BH01							
	30 secs	60 secs	90 secs	120 secs	150 secs	180 secs	Peak Flow
Flow l/h	0	0	0	0	0	0	35.3
CH4 (%)	0	0	0	0	0	0	
Co2 (%)	0	0	0	0	0	0	
o2 (%)	19.9	19.8	19.8	19.8	19.8	19.8	
LEL (%)	0	0	0	0	0	0	
PID	0.6	0.3	0.3	0.3	0.3	0.3	
H2S (ppm)	0	0	0	0	0	0	
CO (ppm)	10	0	0	0	0	0	

BH02							
	30 secs	60 secs	90 secs	120 secs	150 secs	180 secs	Peak Flow
Flow l/h	0	0	0	0	0	0	30.6
CH4 (%)	0	0	0	0	0	0	
Co2 (%)	0.2	0.2	0.2	0.2	0.2	0.2	
o2 (%)	20.1	20	20	20	20	20	
LEL (%)	0	0	0	0	0	0	
PID	0.4	0.1	0	0	0	0	
H2S (ppm)	0	0	0	0	0	0	
CO (ppm)	0	10	10	0	0	10	

BH03							
	30 secs	60 secs	90 secs	120 secs	150 secs	180 secs	Peak Flow
Flow l/h	0	0	0	0	0	0	0
CH4 (%)	0	0	0	0	0	0	
Co2 (%)	0.2	0.2	0.1	0.1	0.1	0.1	
o2 (%)	20.7	20.7	20.7	20.8	20.7	20.7	
LEL (%)	0	0	0	0	0	0	
PID	0	0	0	0	0	0	
H2S (ppm)	0	0	0	0	0	0	
CO (ppm)	0	0	0	0	0	0	

	Water Level	Well length	
BH01	0.98	2.04	bsl
BH02	1.07	3	bsl
BH03	0.76	2.02	bgl

Project Name: GOSH
 Project Number: 12921
 Date of Samling: 27/10/2021

Atmospheric Pressure:
1019

Weather: cloudy, 15C

BH01							
	30 secs	60 secs	90 secs	120 secs	150 secs	180 secs	Peak Flow
Flow l/h	0	0	0	0	0	0	-35.2
CH4 (%)	0	0	0	0	0	0	
Co2 (%)	0	0	0	0	0	0	
o2 (%)	19.8	19.7	19.7	19.6	19.6	19.6	
LEL (%)	0	0	0	0	0	0	
PID	0	0	0	0	0	0	
H2S (ppm)	0	0	0	0	0	0	
CO (ppm)	0	0	0	0	0	0	

BH02							
	30 secs	60 secs	90 secs	120 secs	150 secs	180 secs	Peak Flow
Flow l/h	-3	-0.4	0	0	0	0	-3.4
CH4 (%)	0	0	0	0	0	0	
Co2 (%)	0.2	0.2	0.2	0.2	0.2	0.2	
o2 (%)	20	19.9	19.8	19.8	19.8	19.8	
LEL (%)	0	0	0	0	0	0	
PID	0	0	0	0	0	0	
H2S (ppm)	0	0	0	0	0	0	
CO (ppm)	0	0	0	0	0	0	

BH03							
	30 secs	60 secs	90 secs	120 secs	150 secs	180 secs	Peak Flow
Flow l/h	0	0	0	0	0	0	0
CH4 (%)	0	0	0	0	0	0	
Co2 (%)	0.2	0.1	0.1	0.1	0.1	0.1	
o2 (%)	20.6	20.8	20.7	20.7	20.7	20.7	
LEL (%)	0	0	0	0	0	0	
PID	0	0	0	0	0	0	
H2S (ppm)	0	0	0	0	0	0	
CO (ppm)	0	0	0	0	0	0	

	Water Level	Well length	
BH01	1.01	2.04	bsl
BH02	1.09	3	bsl
BH03	0.76	2.02	bgl



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