SOLMEK
12-16 Yarm Road
Stockton on Tees
TS18 3NA
01642 607083
info@solmek.com

Borehole Log

Scale 1:50 Sheet 1 of 2

BH03

Contract no:	S220443	**Site:**	Falkland Way, Barton-Upon-Humber	**Driller:**	RD Drilling Ltd
				Plant used:	Dando4000
				Started:	11/05/2022
Client:	Allenby Commercial			**Ended:**	11/05/2022
Method:	Cable percussive			**Backfilled:**	11/05/2022

GL (AOD):	
Easting:	503791
Northing:	422674
Logged:	KW
Status:	FINAL

Depth (m)	Level (m AOD)	Stratum Description	Samples and Insitu Testing		
			Depth (m)	Type	Results
		MADE GROUND: Brown sandy clayey topsoil.	0.25	B+ES	
0.30		Soft to firm brown low strength silty CLAY of high plasticity.	0.50 - 1.20	B+ES	
			1.20 - 1.65	SPT (S)	N=6 (1,1/2,1,1,2)
			1.20 - 1.70	B	
			2.00 - 2.45	B	10 blows [NR]
2.10		Very soft grey slightly gravelly low strength clayey SILT. Gravel is fine to coarse angular to subangular of chalk.	2.00 - 3.00	U	
			2.50 - 2.95	SPT (S)	N=0 (1,0/0,0,0,0)
			3.00 - 3.45	SPT (S)	N=0 (1,0/0,0,0,0)
			3.00 - 4.00	B	
			4.00 - 4.45	SPT (S)	N=8 (0,0/2,2,2,2)
			4.00 - 4.50	B	
4.40		Medium dense brown sandy GRAVEL. Gravel is fine to medium subrounded to angular of chalk and sandstone.	4.70	D	
			5.00 - 5.45	SPT (S)	N=18 (4,4/4,5,4,5)
			5.00 - 5.50	B	
			6.50 - 6.95	SPT (S)	N=16 (3,3/4,4,4,4)
			6.50 - 7.00	B	
			7.50	D	
8.00		Firm to stiff light brown slightly sandy very gravelly low to high strength CLAY of low plasticity. Gravel is fine to medium subangular to angular of chalk.	8.00	U	60 blows [450mm]
			8.50	D	
			9.50 - 9.95	SPT (S)	N=17 (2,3/4,4,4,5)
			9.50 - 10.00	B	

Hole Diameter

Depth Base (m)	Diameter (mm)

Casing Depths

Depth Base (m)	Diameter (mm)

General Remarks

1.2m Hand excavated inspection pit dug.
Groundwater encountered at 4.10

Chiselling

From (m)	To (m)	Time (hr)

Ground Water

Depth Strike (m)	Depth Casing (m)	Depth Sealed (m)	Time Elapsed (min)	Water Level (m)
4.10			20	0.80
14.50			20	1.20

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Borehole Log

Scale 1:50 Sheet 2 of 2

BH03

Contract no:	S220443	**Site:**	Falkland Way, Barton-Upon-Humber	**Driller:**	RD Drilling Ltd
				Plant used:	Dando4000
				Started:	11/05/2022
Client:	Allenby Commercial			**Ended:**	11/05/2022
Method:	Cable percussive			**Backfilled:**	11/05/2022

GL (AOD):	
Easting:	503791
Northing:	422674
Logged:	KW
Status:	FINAL

Backfill / Installation	Legend	Depth (m)	Level (m AOD)	Stratum Description	Samples and Insitu Testing		
					Depth (m)	Type	Results
				Firm to stiff light brown slightly sandy very gravelly low to high strength CLAY of low plasticity. Gravel is fine to medium subangular to angular of chalk.	11.00	U	60 blows [450mm]
					11.50	D	
					12.00 - 13.50	B	
					12.50 - 12.95	SPT (S)	N=18 (3,3/4,4,5,5)
					14.50	U	60 blows [450mm]
					15.00	D	
					16.00 - 16.45	SPT (S)	N=17 (3,4/4,4,4,5)
					16.00 - 16.50	B	
					17.00 - 18.00	B	
					17.50 - 17.95	SPT (S)	N=29 (3,6/7,7,7,8)
					19.00 - 19.45	SPT (S)	N=34 (5,8/8,8,9,9)
					19.00 - 20.00	B	
		20.00		End of Borehole at 20.000m			

Hole Diameter		Casing Depths		General Remarks	Chiselling			Ground Water				
Depth Base (m)	Diameter (mm)	Depth Base (m)	Diameter (mm)		From (m)	To (m)	Time (hr)	Depth Strike (m)	Depth Casing (m)	Depth Sealed (m)	Time Elapsed (min)	Water Level (m)
				1.2m Hand excavated inspection pit dug. Groundwater encountered at 4.10				4.10 14.50			20 20	0.80 1.20

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Trial Pit Log

TrialPit No
TP01
Sheet 1 of 1

Project Name:	Falkland Way, Barton-Upon-Humber	Project No. S220443	Co-ords: 503719E - 422715N Level:
Plant Used:	JCB 3CX	Dimensions (m): Depth 2.50	1.95 × 0.60
Client:	Allenby Commercial		

Date: 09/05/2022
Scale: 1:26
Logged: KW

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10 - 0.20	B+ES		0.20			MADE GROUND: Grass over dark brown slightly sandy slightly gravelly topsoil. Sand is fine to medium, gravel is fine subrounded to subangular of sandstone, contains roots.
	0.60 - 0.70	B+ES					Soft to firm dark brown grey mottled slightly sandy slightly gravelly medium strength CLAY. Gravel is fine subrounded to rounded of sandstone.
	1.00	HV	52kPa	1.05			Soft dark brown sandy low strength CLAY.
	1.40 - 1.50	B					
▼	2.00	HV	30kPa				
	2.40 - 2.50			2.50			End of Pit at 2.500m

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4
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Remarks: Groundwater seepage at 0.80m full strike at 2.10m

Stability: Pit wall's Stable

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Trial Pit Log

TrialPit No
TP02
Sheet 1 of 1

Project Name:	Falkland Way, Barton-Upon-Humber	Project No. S220443	Co-ords: 503741E - 422710N Level:
Plant Used:	JCB 3CX	Dimensions (m): Depth 2.20	1.90 × 0.60
Client:	Allenby Commercial		Date 09/05/2022 Scale 1:26 Logged KW

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.00 - 0.10	B+ES		0.10			MADE GROUND: Grass over dark brown clayey topsoil with roots.
	0.30 - 0.40	B+ES		0.40			Firm brown slightly sandy CLAY.
	1.00 1.00	B+ES HV	50kPa				Soft to firm dark brown grey mottled slightly sandy slightly gravelly medium strength CLAY. Gravel is fine subrounded to rounded of sandstone.
				1.70			Soft dark brown sandy low strength CLAY.
	2.00 2.00	B HV	38kPa				
				2.20			End of Pit at 2.200m

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Remarks: Groundwater seepage at 1.00m

Stability: Pit wall's Stable

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Trial Pit Log

TrialPit No
TP03
Sheet 1 of 1

Project Name:	Falkland Way, Barton-Upon-Humber	Project No. S220443	Co-ords: 503723E - 422692N Level:
Plant Used:	JCB 3CX	Dimensions (m): Depth 2.20	1.78 × 0.60
Client:	Allenby Commercial		Date 10/05/2022 Scale 1:26 Logged KW

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10 - 0.20	B+ES		0.20			MADE GROUND: Grass over slightly gravelly very clayey topsoil. Gravel is fine to medium subrounded to rounded of sandstone.
	0.70 - 0.80	B+ES					Soft to firm dark brown, grey mottled slightly sandy slightly gravelly medium strength CLAY. Gravel is fine subrounded to rounded of sandstone.
	1.00	HV	56kPa				
	1.40 - 1.50	B		1.60			Soft dark brown slightly sandy CLAY.
	2.00 - 2.20 2.00	B HV	28kPa	2.20			End of Pit at 2.200m

Remarks: Groundwater seepage at 2.00m

Stability: Pit wall's Stable

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Trial Pit Log

TrialPit No
TP04
Sheet 1 of 1

Project Name:	Falkland Way, Barton-Upon-Humber	Project No. S220443	Co-ords: 503747E - 422699N Level:
Plant Used:	JCB 3CX	Dimensions (m): Depth 2.60	1.95 × 0.60
Client:	Allenby Commercial		Date 09/05/2022 Scale 1:26 Logged KW

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10 - 0.20	B+ES		0.20			MADE GROUND: Dark brown slightly gravelly, very clayey topsoil. Gravel is fine to medium subangular to rounded of sandstone with frequent roots.
	0.70 - 0.80	B+ES					Soft to firm dark brown, grey mottled slightly sandy slightly gravelly medium strength CLAY. Gravel is fine subrounded to rounded of sandstone.
	1.00	HV	56kPa				
	1.70 - 1.80	B		1.90			
	2.00	HV	24kPa	2.10			Soft dark brown sandy low strength CLAY.
	2.40 - 2.50	B		2.60			Soft dark brown black mottled silty CLAY.
							End of Pit at 2.600m

Remarks: Groundwater seepage at 2.10m

Stability: Pit wall's Stable

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Trial Pit Log

TrialPit No
TP05
Sheet 1 of 1

Project Name:	Falkland Way, Barton-Upon-Humber	Project No. S220443	Co-ords: 503747E - 422682N Level:
Plant Used:	JCB 3CX	Dimensions (m): Depth 2.40	1.82 × 0.60
Client:	Allenby Commercial		Date 09/05/2022 Scale 1:26 Logged KW

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.20 - 0.30	B+ES		0.30			MADE GROUND: Dark brown slightly clayey gravelly topsoil. Gravel is fine to coarse, subangular to angular of cement and concrete.
	0.90 - 1.00	B+ES					Soft to firm dark brown, grey mottled slightly sandy slightly gravelly low to medium strength CLAY. Gravel is fine subrounded to rounded of sandstone.
	1.00	HV	48kPa				
	2.00	HV	22kPa				
	2.10 - 2.20	B		2.10			Soft dark brown slightly sandy CLAY.
				2.40			End of Pit at 2.400m

Remarks: No groundwater encountered

Stability: Pit wall's Stable

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Trial Pit Log

TrialPit No
TP06
Sheet 1 of 1

Project Name:	Falkland Way, Barton-Upon-Humber	Project No. S220443	Co-ords: 503789E - 422716N Level:
Plant Used:	JCB 3CX	Dimensions (m): Depth 2.10	1.95 × 0.60
Client:	Allenby Commercial		

Date: 10/05/2022
Scale: 1:26
Logged: KW

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.20 - 0.30	B+ES		0.30			MADE GROUND: Grass over dark brown very clayey topsoil.
	0.40 - 0.50	B+ES		0.50			Soft to firm dark brown, grey mottled slightly sandy slightly gravelly medium strength CLAY. Gravel is fine subrounded to rounded of sandstone.
	1.00 - 1.10 1.00	B+ES HV	30kPa	1.10			Soft dark brown slightly sandy CLAY.
	2.00 - 2.10 2.00	B HV	18kPa	2.10			Brownish grey very silty SAND. Thin bands of silt noted.
							End of Pit at 2.100m

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Remarks: Groundwater seepage at 0.70m

Stability: Pit wall's Stable

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Trial Pit Log

TrialPit No: TP07
Sheet 1 of 1

Project Name:	Falkland Way, Barton-Upon-Humber	Project No. S220443	Co-ords: 503782E - 422697N Level:
Plant Used:	JCB 3CX	Dimensions (m): Depth 2.40	2.05 × 0.60
Client:	Allenby Commercial		Date 10/05/2022 Scale 1:26 Logged KW

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10 - 0.20	B+ES		0.20			MADE GROUND: Grass over dark brown slightly gravelly slightly clayey topsoil. Gravel is fine to medium, subrounded to angular of chalk with roots.
	0.50 - 0.60	B+ES					Soft to firm dark brown, grey mottled slightly sandy slightly gravelly medium strength CLAY. Gravel is fine subrounded to rounded of sandstone.
	1.00	HV	42kPa				
	1.50 - 1.60	B					
	2.00 - 2.10	B		1.90			Soft dark brown sandy low strength CLAY.
	2.00	HV	20kPa	2.10			Soft blackish brown very silty CLAY.
	2.30 - 2.40	B		2.40			End of Pit at 2.400m

Remarks: No groundwater encountered.

Stability: Pit wall's Stable

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Trial Pit Log

TrialPit No
TP08
Sheet 1 of 1

Project Name:	Falkland Way, Barton-Upon-Humber	Project No. S220443	Co-ords: 503773E - 422682N Level:
Plant Used:	JCB 3CX	Dimensions (m): Depth 2.50	2.05 × 0.60
Client:	Allenby Commercial		

Date: 10/05/2022
Scale: 1:26
Logged: KW

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.00 - 0.10	B+ES		0.30			MADE GROUND: Grass over slightly clayey very gravelly topsoil. Gravel is fine to medium, subangular to angular of chalk.
	0.40 - 0.50	B+ES					Soft to firm dark brown grey mottled slightly sandy slightly gravelly medium strength CLAY. Gravel is fine subrounded to rounded of sandstone.
	1.00	HV	50kPa				
	1.40 - 1.50	B					
	2.00 - 2.10	B		2.00			Soft dark brown to greyish black low strength silty CLAY.
	2.00	HV	18kPa				
	2.40 - 2.50	B		2.50			End of Pit at 2.500m

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Remarks: Groundwater seepage at 1.60m

Stability: Pit wall's Stable

APPENDIX C:
Contamination Laboratory Results

Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	22-18353-1
Initial Date of Issue:	24-May-2022
Client	Solmek Ltd
Client Address:	12 Yarm Road Stockton-on-Tees TS18 3NA
Contact(s):	Lab Leo Cassidy Office
Project	S220443 Barton Upon Humber

Quotation No.:		**Date Received:**	18-May-2022
Order No.:	SOL-6203	**Date Instructed:**	18-May-2022
No. of Samples:	4		
Turnaround (Wkdays):	5	**Results Due:**	24-May-2022
Date Approved:	24-May-2022		

Approved By:

[redacted]

Details: Stuart Henderson, Technical Manager

Results - Leachate

Project: S220443 Barton Upon Humber

Client: Solmek Ltd				**Chemtest Job No.:**		22-18353	22-18353
Quotation No.:				**Chemtest Sample ID.:**		1430686	1430689
				Sample Location:		TP01	TP08
				Sample Type:		SOIL	SOIL
				Top Depth (m):		0.10	0.00
				Bottom Depth (m):		0.20	0.10
				Date Sampled:		09-May-2022	10-May-2022
Determinand	**Accred.**	**SOP**	**Type**	**Units**	**LOD**		
pH	U	1010			N/A	8.6	8.7
Sulphate	U	1220		mg/l	1.0	< 1.0	< 1.0
Cyanide (Total)	U	1300		mg/l	0.050	< 0.050	< 0.050
Hardness	U	1415		mg/l	15	260	250
Arsenic (Dissolved)	U	1455		µg/l	0.20	12	13
Boron (Dissolved)	U	1455		µg/l	10.0	120	76
Cadmium (Dissolved)	U	1455		µg/l	0.11	1.5	1.4
Chromium (Dissolved)	U	1455		µg/l	0.50	25	7.7
Copper (Dissolved)	U	1455		µg/l	0.50	54	57
Mercury (Dissolved)	U	1455		µg/l	0.05	< 0.05	< 0.05
Nickel (Dissolved)	U	1455		µg/l	0.50	18	15
Lead (Dissolved)	U	1455		µg/l	0.50	320	340
Selenium (Dissolved)	U	1455		µg/l	0.50	8.6	7.6
Zinc (Dissolved)	U	1455		µg/l	2.5	440	140
Aliphatic TPH >C5-C6	N	1675		µg/l	0.10	< 0.10	
Aliphatic TPH >C6-C8	N	1675		µg/l	0.10	< 0.10	
Aliphatic TPH >C8-C10	N	1675		µg/l	0.10	< 0.10	
Aliphatic TPH >C10-C12	N	1675		µg/l	0.10	< 0.10	
Aliphatic TPH >C12-C16	N	1675		µg/l	0.10	< 0.10	
Aliphatic TPH >C16-C21	N	1675		µg/l	0.10	< 0.10	
Aliphatic TPH >C21-C35	N	1675		µg/l	0.10	< 0.10	
Aliphatic TPH >C35-C44	N	1675		µg/l	0.10	< 0.10	
Total Aliphatic Hydrocarbons	N	1675		µg/l	5.0	< 5.0	
Aromatic TPH >C5-C7	N	1675		µg/l	0.10	< 0.10	
Aromatic TPH >C7-C8	N	1675		µg/l	0.10	< 0.10	
Aromatic TPH >C8-C10	N	1675		µg/l	0.10	< 0.10	
Aromatic TPH >C10-C12	N	1675		µg/l	0.10	< 0.10	
Aromatic TPH >C12-C16	N	1675		µg/l	0.10	< 0.10	
Aromatic TPH >C16-C21	N	1675		µg/l	0.10	< 0.10	
Aromatic TPH >C21-C35	N	1675		µg/l	0.10	< 0.10	
Aromatic TPH >C35-C44	N	1675		µg/l	0.10	< 0.10	
Total Aromatic Hydrocarbons	N	1675		µg/l	5.0	< 5.0	
Total Petroleum Hydrocarbons	N	1675		µg/l	10	< 10	
Naphthalene	U	1800		µg/l	0.10	< 0.10	< 0.10
Acenaphthylene	U	1800		µg/l	0.10	< 0.10	< 0.10
Acenaphthene	U	1800		µg/l	0.10	< 0.10	< 0.10
Fluorene	U	1800		µg/l	0.10	< 0.10	< 0.10
Phenanthrene	U	1800		µg/l	0.10	< 0.10	< 0.10
Anthracene	U	1800		µg/l	0.10	< 0.10	< 0.10

Results - Leachate

Project: S220443 Barton Upon Humber

Client: Solmek Ltd				**Chemtest Job No.:**		22-18353	22-18353
Quotation No.:				**Chemtest Sample ID.:**		1430686	1430689
				Sample Location:		TP01	TP08
				Sample Type:		SOIL	SOIL
				Top Depth (m):		0.10	0.00
				Bottom Depth (m):		0.20	0.10
				Date Sampled:		09-May-2022	10-May-2022
Determinand	**Accred.**	**SOP**	**Type**	**Units**	**LOD**		
Fluoranthene	U	1800		µg/l	0.10	< 0.10	< 0.10
Pyrene	U	1800		µg/l	0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800		µg/l	0.10	< 0.10	< 0.10
Chrysene	U	1800		µg/l	0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800		µg/l	0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800		µg/l	0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800		µg/l	0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800		µg/l	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800		µg/l	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800		µg/l	0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1800		µg/l	2.0	< 2.0	< 2.0
Total Phenols	U	1920		mg/l	0.030	< 0.030	< 0.030

Results - Soil

Project: S220443 Barton Upon Humber

Client: Solmek Ltd		**Chemtest Job No.:**			22-18353	22-18353	22-18353	22-18353
Quotation No.:		**Chemtest Sample ID.:**			1430686	1430687	1430688	1430689
		Sample Location:			TP01	TP03	TP06	TP08
		Sample Type:			SOIL	SOIL	SOIL	SOIL
		Top Depth (m):			0.10	0.70	0.20	0.00
		Bottom Depth (m):			0.20	0.80	0.30	0.10
		Date Sampled:			09-May-2022	10-May-2022	10-May-2022	10-May-2022
		Asbestos Lab:			DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**Accred.**	**SOP**	**Units**	**LOD**				
ACM Type	U	2192		N/A	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	21	24	31	24
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones and Roots	None	Roots	Stones and Roots
Soil Texture	N	2040		N/A	Clay	Clay	Clay	Clay
pH	M	2010		4.0	7.9	8.9	8.1	9.0
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	5.7	4.1	28	20
Sulphate (2:1 Water Soluble) as SO4	M	2120	mg/l	10	< 10	54	< 10	44
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50	0.60	< 0.50
Arsenic	M	2455	mg/kg	0.5	13	11	6.0	11
Cadmium	M	2455	mg/kg	0.10	0.19	0.10	0.14	0.15
Chromium	M	2455	mg/kg	0.5	19	26	10	15
Copper	M	2455	mg/kg	0.50	18	12	9.7	15
Mercury	M	2455	mg/kg	0.05	0.09	< 0.05	0.07	0.07
Nickel	M	2455	mg/kg	0.50	18	23	8.7	14
Lead	M	2455	mg/kg	0.50	96	38	53	77
Selenium	M	2455	mg/kg	0.25	0.65	0.93	0.30	0.50
Zinc	M	2455	mg/kg	0.50	64	58	34	51
Organic Matter	M	2625	%	0.40	7.4	1.7	12	6.0
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0		< 1.0	
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0		< 1.0	
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0		< 1.0	
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0		< 1.0	
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0		< 1.0	
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0		< 1.0	
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0		< 1.0	
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0		< 1.0	
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0		< 5.0	
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0		< 1.0	
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0		< 1.0	
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0		< 1.0	
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0		< 1.0	
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0		< 1.0	
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0		< 1.0	
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0		< 1.0	

Results - Soil

Project: S220443 Barton Upon Humber

Client: Solmek Ltd		**Chemtest Job No.:**			22-18353	22-18353	22-18353	22-18353
Quotation No.:		**Chemtest Sample ID.:**			1430686	1430687	1430688	1430689
			Sample Location:		TP01	TP03	TP06	TP08
			Sample Type:		SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		0.10	0.70	0.20	0.00
			Bottom Depth (m):		0.20	0.80	0.30	0.10
			Date Sampled:		09-May-2022	10-May-2022	10-May-2022	10-May-2022
			Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**Accred.**	**SOP**	**Units**	**LOD**				
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0		< 1.0	
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0		< 5.0	
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10		< 10	
Naphthalene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	0.50	< 0.10
Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	0.17	< 0.10
Fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	1.7	< 0.10
Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	1.9	< 0.10
Benzo[a]anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	1.4	< 0.10
Chrysene	M	2700	mg/kg	0.10	< 0.10	< 0.10	2.0	< 0.10
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	2.5	< 0.10
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	0.87	< 0.10
Benzo[a]pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	1.0	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	0.78	< 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	0.21	< 0.10
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	0.66	< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2.0	< 2.0	< 2.0	14	< 2.0
Total Phenols	M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1415	Cations in Waters by ICP-MS	Sodium; Potassium; Calcium; Magnesium	Direct determination by inductively coupled plasma - mass spectrometry (ICP-MS).
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	Aliphatics: >C5–C6, >C6–C8, >C8– C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Pentane extraction / GCxGC FID detection
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Allkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)

Test Methods

SOP	Title	Parameters included	Method summary
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation
The results relate only to the items tested
Uncertainty of measurement for the determinands tested are available upon request
None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

APPENDIX D:
Geotechnical Laboratory Results

Laboratory Report Front Sheet

Site name	Job number
Barton upon Humber	S220443

Solmek
12-16 Yarm Road,
Stockton on Tees,
TS18 3NA
01642 607083
lab@solmek.com

UKAS TESTING
7607

Client details:

Reference: S220443
Name: Solmek
Address: 12 Yarm Road,
Stockton-on-tees,
TS18 3NA

Telephone: 01642 607083
Email: lcassidy@solmek.com

FAO: Leo Cassidy

Date commenced: 20/05/2022

Date reported: 06/06/2022

Observations and interpretations are outside of the UKAS Accreditiation

A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. 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 in full, without the prior written approval of the laboratory.

Samples will be held at the laboratory for a period of 4 weeks after the report date. After the above reporting date the samples will be disposed of. Should further testing be required then the office should be informed before the above date.

Signature:	Approved Signitories:
[redacted]	☐ D.Anderson (Associate Director) ☑ J. Brischuk (Laboratory Manager) ☐

Summary of Classification Tests

Site name	Job number
Barton upon Humber	S220443

Solmek
12-16 Yarm Road,
Stockton on Tees
01642 607083
lab@solmek.com

UKAS TESTING
7607

Hole	Depth Top m	Depth Base m	Type	w %	Oven temp. oc	wa %	Pa %	Pr %	wL %	wP %	IP %	IL	Plasticity class	Preparation method
BH01	2.00		U	29	105	29	100	0	41-s	27	14	0.143	MI	Tested after >425µm removed by hand
BH01	7.50		U	19	105	21	91	9	34-s	20	14	0.071	CL	Tested after >425µm removed by hand
BH01	13.00		U	13	105	16	82	18	33-s	19	14	-0.214	CL	Tested after >425µm removed by hand
BH02	1.20		U	38	105	39	97	3	58-s	35	23	0.174	MH	Tested after >425µm removed by hand
BH02	7.50		U	16	105	19	86	14	28-s	16	12	0.250	CL	Tested after >425µm removed by hand
BH03	1.20		B	38	105	38	100	0	57-s	34	23	0.174	MH	Tested after >425µm removed by hand
BH03	8.00		U	14	105	16	90	10	23-s	14	9	0.222	CL	Tested after >425µm removed by hand

All tests found in Solmek UKAS Schedule of Accreditation are tested to standard unless otherwise indicated

Key	Description		Category	BS Test Code
w	Moisture content			BS 1377:1990 Part 2 Clause 3.2
wa	Equivalent moisture content passing 425µm sieve			BS 1377:1990 Part 2 Clause 3.2
wL	Liquid limit	Single point	-s	BS 1377:1990 Part 2 Clause 4.4
		Four point	-f	BS 1377:1990 Part 2 Clause 4.3
wP	Plastic limit			BS 1377:1990 Part 2 Clause 5.2
Pa	Percentage passing 425um sieve			
Pr	Percentage retained 425um sieve			
IP	Plasticity index			BS 1377:1990 Part 2 Clause 5.4
IL	Liquidity index			BS 1377:1990 Part 2 Clause 5.4
	Suffix indicating test is "Not UKAS Accredited"		*	

Approved by	JBrischuk
Approval date	06/06/2022 14:29
Date report generated	
Report Number	

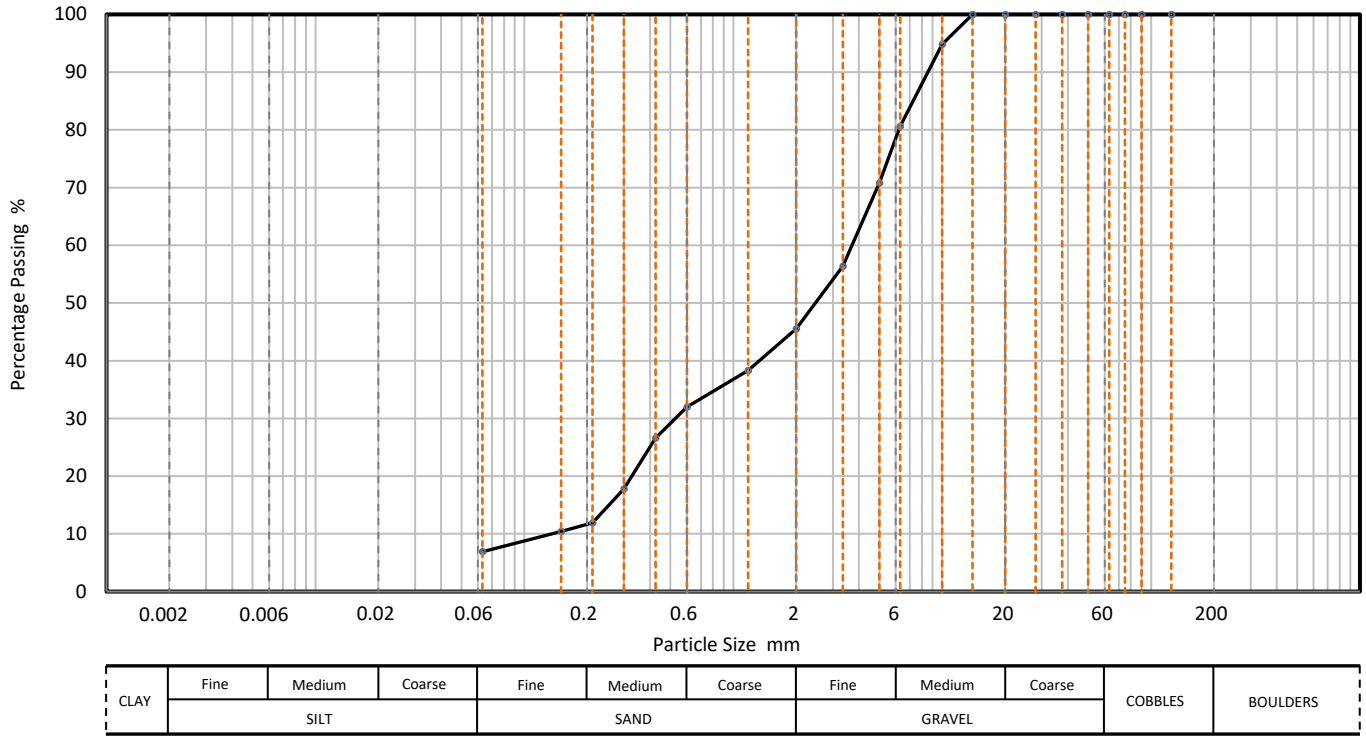
PARTICLE SIZE DISTRIBUTION

Site name	Job number
Barton upon Humber	S220443

Solmek
12-16 Yarm Road,
Stockton on Tees,
TS18 3NA
01642 607083
lab@solmek.com

UKAS TESTING 7607

Hole	BH02	Lab sample ID	SLMK2022052015
Depth (Top) m	18.00	Test Method	BS 1377 - 2 : 1990 Clause 9.2
Depth (Base) m		Soil Description	Slightly Clayey, Very Sandy GRAVEL
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	100		
20	100		
14	100		
10	95		
6.3	81		
5	71		
3.35	56		
2	46		
1.18	38		
0.6	32		
0.425	27		
0.3	18		
0.212	12		
0.15	10		
0.063	7		

Dry Mass of sample, g	419

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	54.5
Sand	38.6
Fines <0.063mm	7.0

Grading Analysis		
D100	mm	
D60	mm	3.7
D30	mm	0.527
D10	mm	0.135
Uniformity Coefficient		27
Curvature Coefficient		0.55

Remarks
Preparation and testing in accordance with test method unless noted below

Accreditation status
Hydrometer is the usual Sedimentation method carried out by Solmek and is part of the Solmek UKAS accreditation schedule.

Approved by	JBrischuk
Approval date	06/06/2022 14:38

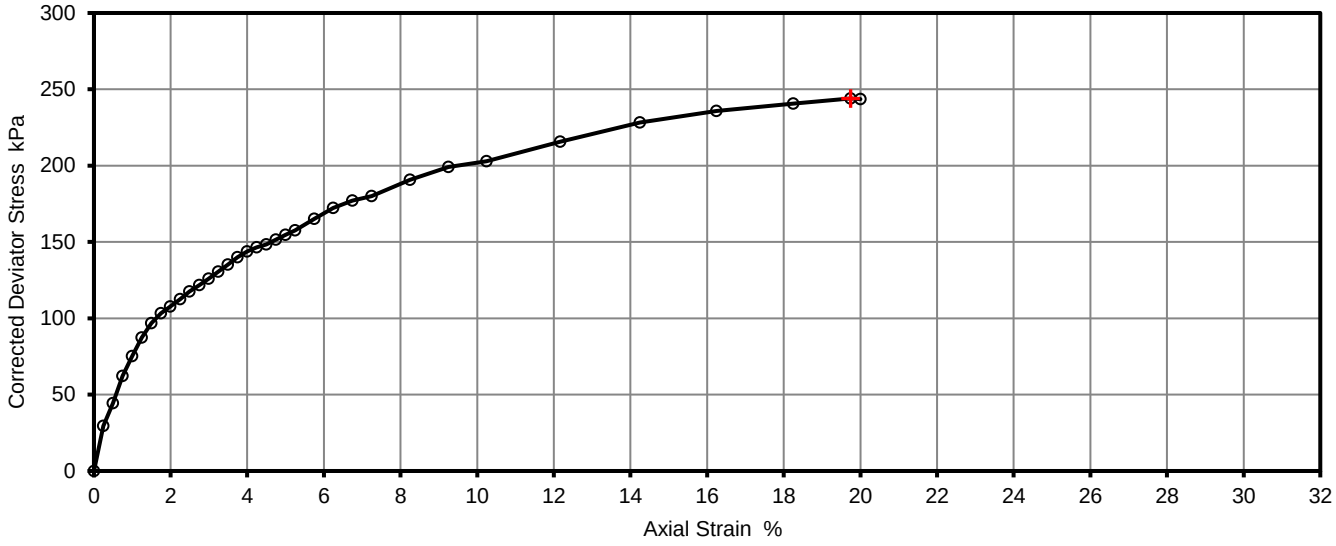
UKAS TESTING 7607	**Unconsolidated Undrained Triaxial Compression Test without measurement of pore pressure - single specimen**			Job Ref	S220443
				Borehole/Pit No.	BH01
Site Name	Barton upon Humber			Sample No.	
Soil Description				Depth	7.50
Specimen Reference		Specimen Depth	m	Sample Type	U
Specimen Description	High strength CLAY			KeyLAB ID	SLMK2022052010
Test Method	BS1377 : Part 7 : 1990, clause 8, single specimen			Date of test	01/06/2022

Test Number		1	
Length		202.0	mm
Diameter		102.0	mm
Bulk Density		2.17	Mg/m3
Moisture Content		14.7	%
Dry Density		1.89	Mg/m3
Rate of Strain		1.0	%/min
Cell Pressure		150	kPa
At failure	Axial Strain	19.7	%
	Deviator Stress, (σ1 - σ3)f	244	kPa
	Undrained Shear Strength, cu	122	kPa ½(σ1 - σ3)f
	Mode of Failure	Compound	

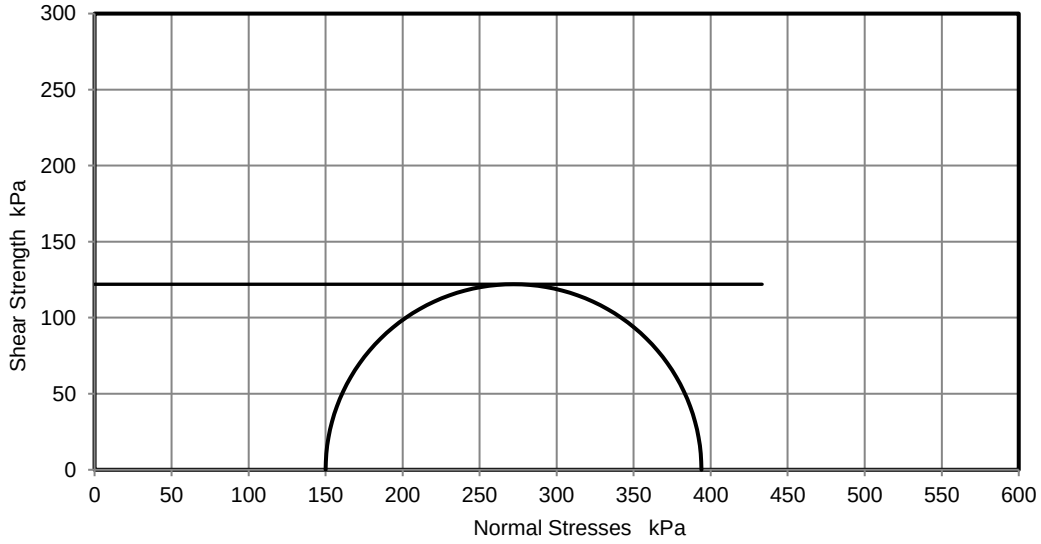
Tracable Equipment Record

Test Frame	TRI 004
Load Ring	LOAD CELL 001
Pressure Gauge	PRE 006
Digital Caliper	CAL-005
Balance	BAL-007

Deviator Stress v Axial Strain



Mohr Circles



Deviator stress corrected for area change and membrane effects

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

No of membranes used
1
Total thickness (mm)
0.25
Membrane Correction
Membrane Type

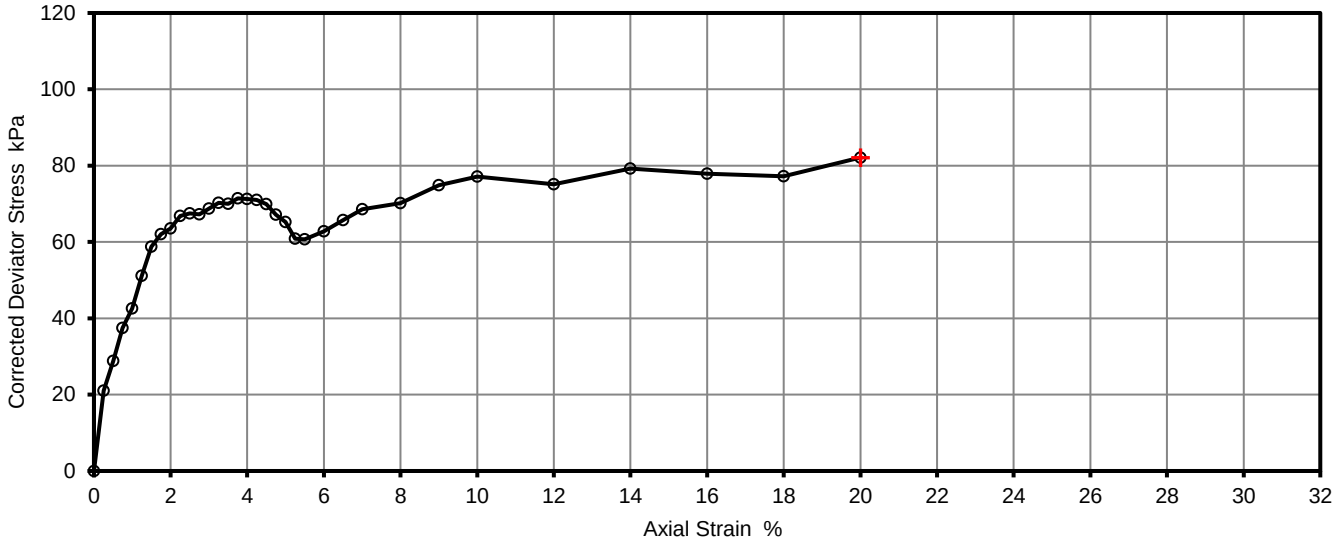
UKAS TESTING 7607	**Unconsolidated Undrained Triaxial Compression Test without measurement of pore pressure - single specimen**			Job Ref	S220443
				Borehole/Pit No.	BH01
Site Name	Barton upon Humber			Sample No.	
Soil Description				Depth	13.00
Specimen Reference		Specimen Depth	m	Sample Type	U
Specimen Description	Medium strength CLAY			KeyLAB ID	SLMK2022052011
Test Method	BS1377 : Part 7 : 1990, clause 8, single specimen			Date of test	01/06/2022

Test Number	1	
Length	76.0	mm
Diameter	38.0	mm
Bulk Density	2.19	Mg/m3
Moisture Content	15.7	%
Dry Density	1.89	Mg/m3
Rate of Strain	1.0	%/min
Cell Pressure	260	kPa
At failure: Axial Strain	20.0	%
At failure: Deviator Stress, (σ1 - σ3)f	82	kPa
At failure: Undrained Shear Strength, cu	41	kPa ½(σ1 - σ3)f
At failure: Mode of Failure	Plastic	

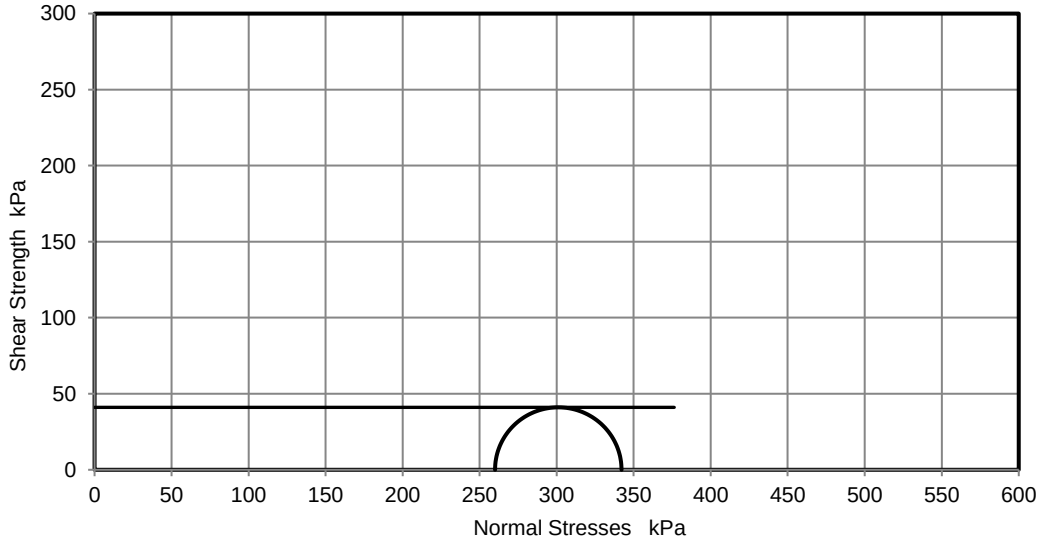
Tracable Equipment Record

Test Frame	TRI 004
Load Ring	LOAD CELL 003
Pressure Gauge	PRE 006
Digital Caliper	CAL-005
Balance	BAL-007

Deviator Stress v Axial Strain



Mohr Circles



Deviator stress corrected for area change and membrane effects

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

No of membranes used
1
Total thickness (mm)
0.25
Membrane Correction
Membrane Type

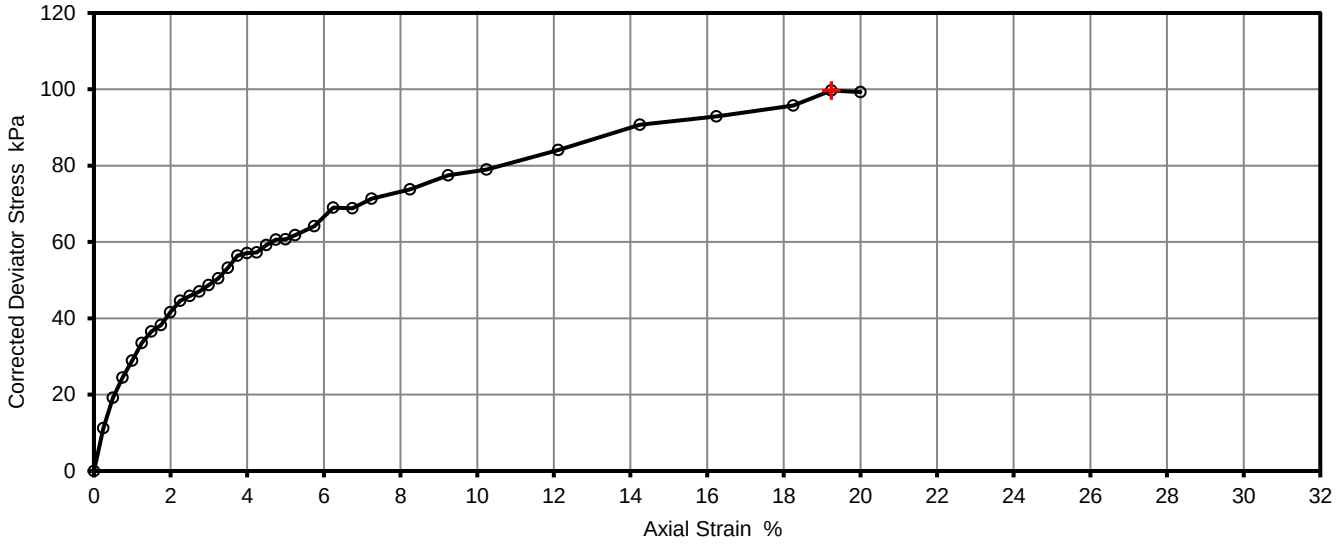
UKAS TESTING 7607	**Unconsolidated Undrained Triaxial Compression Test without measurement of pore pressure - single specimen**			Job Ref	S220443
				Borehole/Pit No.	BH02
Site Name	Barton upon Humber			Sample No.	
Soil Description				Depth	7.50
Specimen Reference		Specimen Depth	m	Sample Type	U
Specimen Description	Medium strength CLAY			KeyLAB ID	SLMK2022052013
Test Method	BS1377 : Part 7 : 1990, clause 8, single specimen			Date of test	01/06/2022

Test Number		1	
Length		203.0	mm
Diameter		102.0	mm
Bulk Density		2.25	Mg/m3
Moisture Content		15.7	%
Dry Density		1.95	Mg/m3
Rate of Strain		1.0	%/min
Cell Pressure		150	kPa
At failure	Axial Strain	19.2	%
	Deviator Stress, (σ1 - σ3)f	100	kPa
	Undrained Shear Strength, cu	50	kPa ½(σ1 - σ3)f
	Mode of Failure	Plastic	

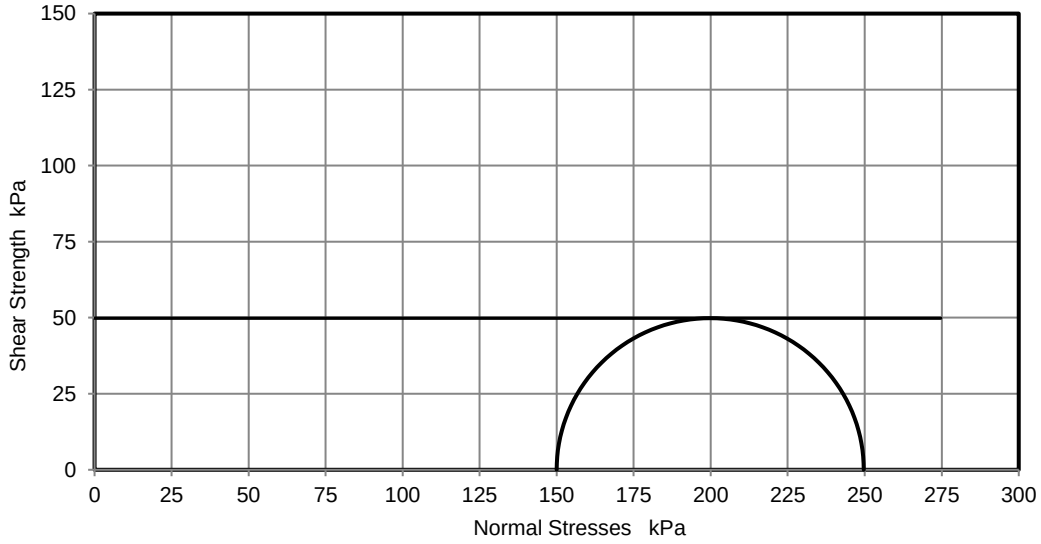
Tracable Equipment Record

Test Frame	TRI 003
Load Ring	LOAD CELL 001
Pressure Gauge	PRE 006
Digital Caliper	CAL-005
Balance	BAL-007

Deviator Stress v Axial Strain



Mohr Circles



Deviator stress corrected for area change and membrane effects

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

No of membranes used
1
Total thickness (mm)
0.25
Membrane Correction
Membrane Type

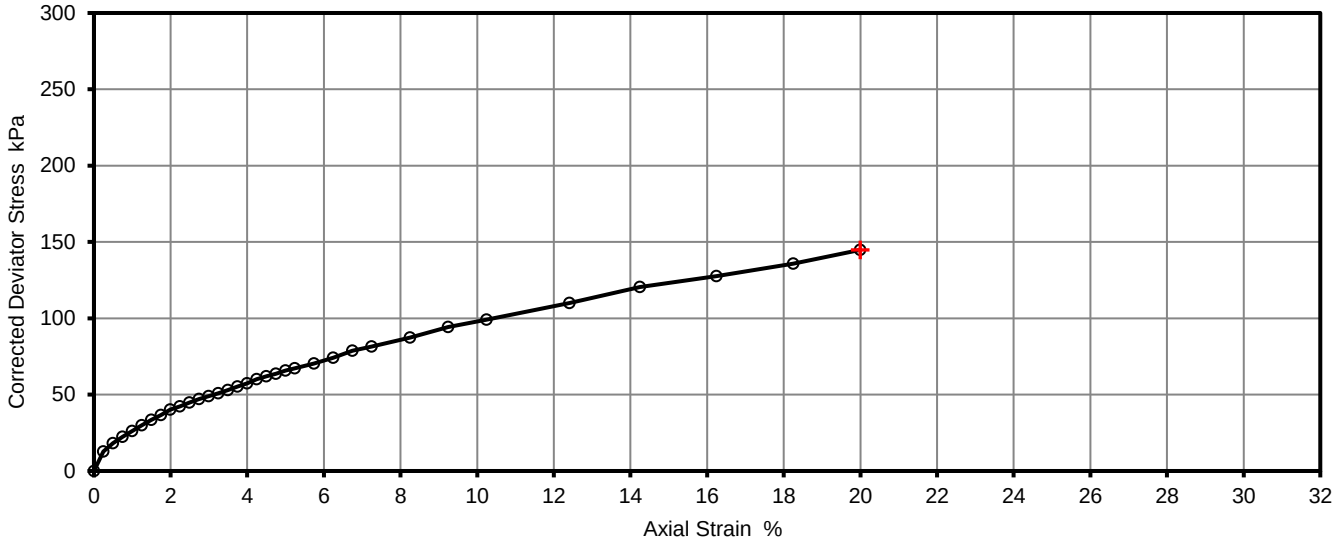
UKAS TESTING 7607	**Unconsolidated Undrained Triaxial Compression Test without measurement of pore pressure - single specimen**			Job Ref	S220443
				Borehole/Pit No.	BH02
Site Name	Barton upon Humber			Sample No.	
Soil Description				Depth	13.50
Specimen Reference		Specimen Depth	m	Sample Type	U
Specimen Description	Medium strength CLAY			KeyLAB ID	SLMK2022052014
Test Method	BS1377 : Part 7 : 1990, clause 8, single specimen			Date of test	01/06/2022

Test Number		1	
Length		204.0	mm
Diameter		103.0	mm
Bulk Density		2.22	Mg/m3
Moisture Content		15.9	%
Dry Density		1.92	Mg/m3
Rate of Strain		1.0	%/min
Cell Pressure		270	kPa
At failure	Axial Strain	20.0	%
	Deviator Stress, (σ1 - σ3)f	145	kPa
	Undrained Shear Strength, cu	72	kPa ½(σ1 - σ3)f
	Mode of Failure	Plastic	

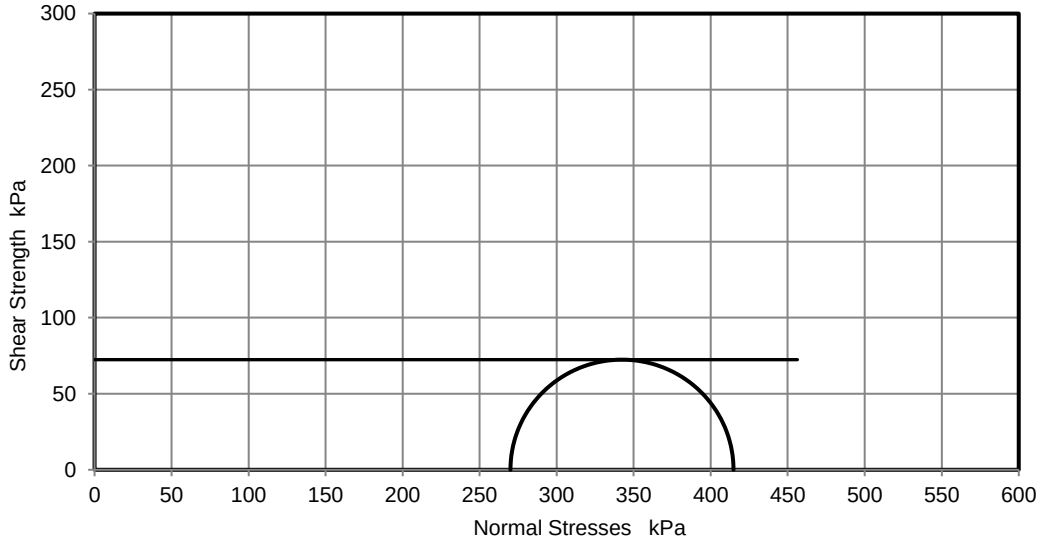
Tracable Equipment Record

Test Frame	TRI 004
Load Ring	LOAD CELL 001
Pressure Gauge	PRE 006
Digital Caliper	CAL-005
Balance	BAL-007

Deviator Stress v Axial Strain



Mohr Circles



Deviator stress corrected for area change and membrane effects

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

No of membranes used
1
Total thickness (mm)
0.25
Membrane Correction
Membrane Type

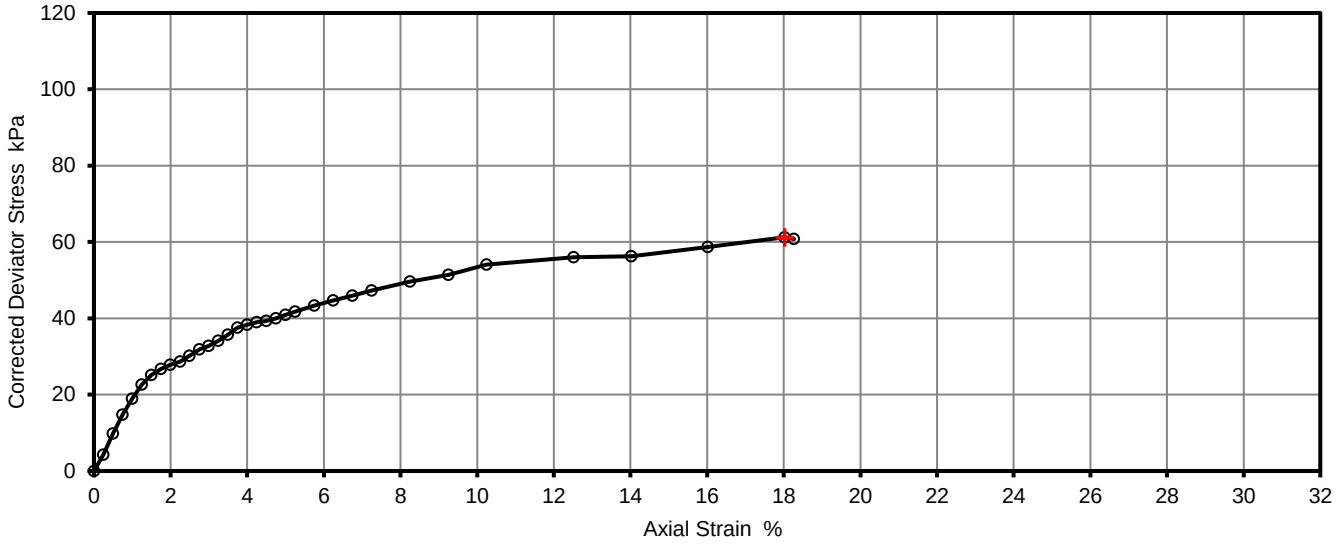
UKAS TESTING 7607	**Unconsolidated Undrained Triaxial Compression Test without measurement of pore pressure - single specimen**			Job Ref	S220443
				Borehole/Pit No.	BH03
Site Name	Barton upon Humber			Sample No.	
Soil Description				Depth	8.00
Specimen Reference		Specimen Depth	m	Sample Type	U
Specimen Description	Low strength CLAY			KeyLAB ID	SLMK2022052017
Test Method	BS1377 : Part 7 : 1990, clause 8, single specimen			Date of test	31/05/2022

Test Number		1	
Length		202.0	mm
Diameter		102.0	mm
Bulk Density		2.23	Mg/m3
Moisture Content		16.2	%
Dry Density		1.92	Mg/m3
Rate of Strain		1.0	%/min
Cell Pressure		160	kPa
At failure	Axial Strain	18.0	%
	Deviator Stress, (σ1 - σ3)f	61	kPa
	Undrained Shear Strength, cu	31	kPa ½(σ1 - σ3)f
	Mode of Failure	Plastic	

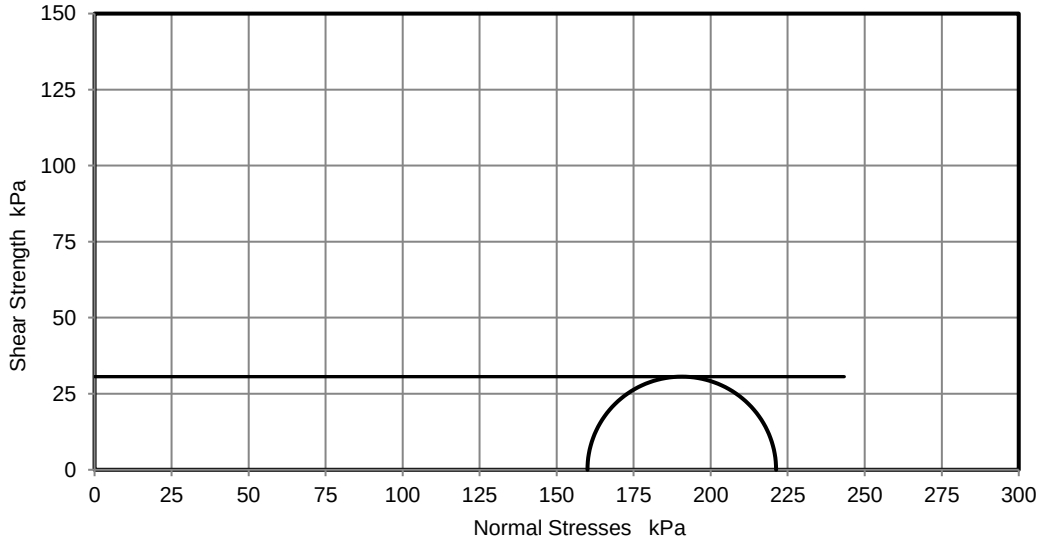
Tracable Equipment Record

Test Frame	TRI 004
Load Ring	LOAD CELL 001
Pressure Gauge	PRE 006
Digital Caliper	CAL-005
Balance	BAL-007

Deviator Stress v Axial Strain



Mohr Circles



Deviator stress corrected for area change and membrane effects

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

No of membranes used
1
Total thickness (mm)
0.25
Membrane Correction
Membrane Type

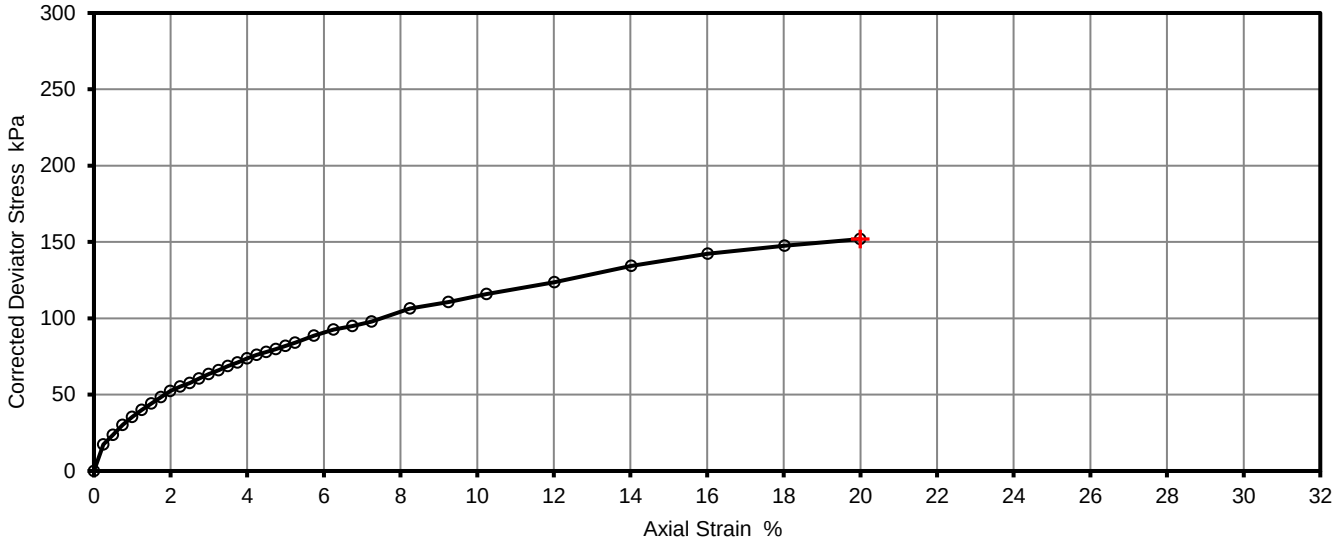
UKAS TESTING 7607	**Unconsolidated Undrained Triaxial Compression Test without measurement of pore pressure - single specimen**			Job Ref	S220443
				Borehole/Pit No.	BH03
Site Name	Barton upon Humber			Sample No.	
Soil Description				Depth	14.50
Specimen Reference		Specimen Depth	m	Sample Type	U
Specimen Description	High strength CLAY			KeyLAB ID	SLMK2022052018
Test Method	BS1377 : Part 7 : 1990, clause 8, single specimen			Date of test	01/06/2022

Test Number	1	
Length	205.0	mm
Diameter	102.0	mm
Bulk Density	2.21	Mg/m3
Moisture Content	14.7	%
Dry Density	1.93	Mg/m3
Rate of Strain	1.0	%/min
Cell Pressure	290	kPa
At failure: Axial Strain	20.0	%
At failure: Deviator Stress, (σ1 - σ3)f	152	kPa
At failure: Undrained Shear Strength, cu	76	kPa ½(σ1 - σ3)f
At failure: Mode of Failure	Plastic	

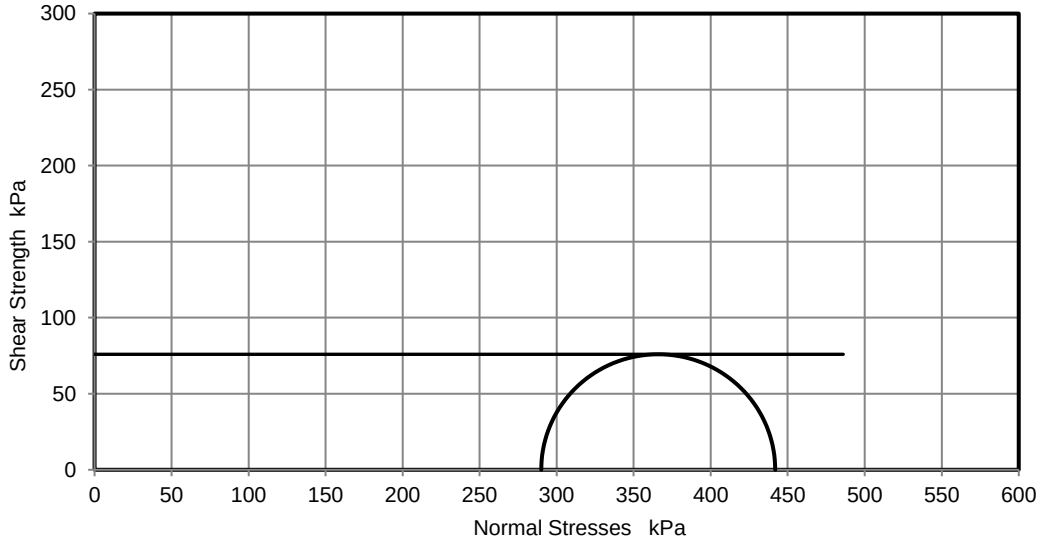
Tracable Equipment Record

Test Frame	TRI 004
Load Ring	LOAD CELL 001
Pressure Gauge	PRE 006
Digital Caliper	CAL-005
Balance	BAL-007

Deviator Stress v Axial Strain



Mohr Circles



Deviator stress corrected for area change and membrane effects

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

No of membranes used
1
Total thickness (mm)
0.25
Membrane Correction
Membrane Type

Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	22-19035-1		
Initial Date of Issue:	25-May-2022		
Client	Solmek Ltd		
Client Address:	12 Yarm Road Stockton-on-Tees TS18 3NA		
Contact(s):	B Atkinson Joe Brischuk Lab Leo Cassidy Office		
Project	S220443 Barton Upon Humber		
Quotation No.:		**Date Received:**	23-May-2022
Order No.:	1463	**Date Instructed:**	23-May-2022
No. of Samples:	5		
Turnaround (Wkdays):	5	**Results Due:**	27-May-2022
Date Approved:	25-May-2022		
Approved By:			
Details:	Stuart Henderson, Technical Manager		