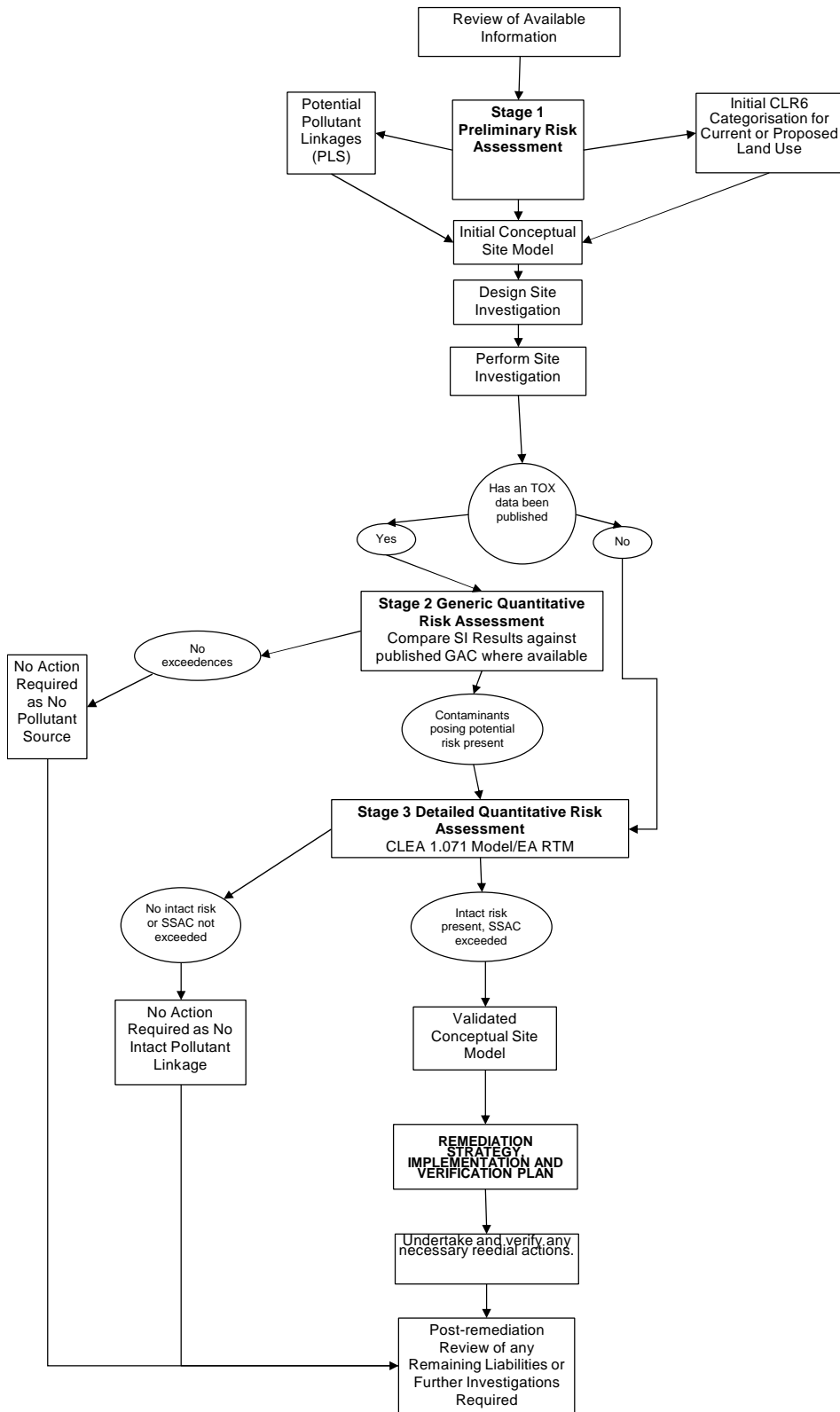



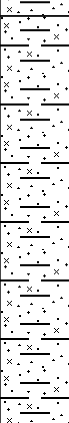


JPB Risk Assessment Methodology Flow Chart





Appendix 7 Trial Pit Logs – Johnson Poole & Bloomer - May 2022 and June 2024

 Johnson Poole & Bloomer					Site Beeslack High School, Penicuik		Trial Pit Number TP01	
Excavation Method Trial Pit		Dimensions 0.6x2.1m		Ground Level (mOD)		Client Midlothian Council		Job Number WG684
		Location		Dates 11/05/2022		Engineer		Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.70	E1				<div> <div></div> <div>(0.50)</div> </div>	Brown slightly clayey sandy TOPSOIL with rootlets and fine to medium cobbles.		
					<div> <div>0.50</div> <div>(0.60)</div> </div>	Firm consistency orange/brown slightly silty gravelly sandy firm CLAY. Gravel is medium.		
					<div> <div>1.10</div> <div>(1.40)</div> </div>	Orange/brown slightly silty gravelly sandy CLAY. Gravel is fine to medium grained and occasional cobbles. Firm consistency low strength		
2.40	V 32kPa	35,39,22/Av. 32.00			<div> <div>2.50</div> </div>	Complete at 2.50m		
Plan <div> <div>.</div><div>.</div><div>.</div><div>.</div><div>.</div><div>.</div><div>.</div><div>.</div><div>.</div><div>.</div> <div>.</div><div>.</div><div>.</div><div>.</div><div>.</div><div>.</div><div>.</div><div>.</div><div>.</div><div>.</div> <div>.</div><div>.</div><div>.</div><div>.</div><div>.</div><div>.</div><div>.</div><div>.</div><div>.</div><div>.</div> <div>.</div><div>.</div><div>.</div><div>.</div><div>.</div><div>.</div><div>.</div><div>.</div><div>.</div><div>.</div> <div>.</div><div>.</div><div>.</div><div>.</div><div>.</div><div>.</div><div>.</div><div>.</div><div>.</div><div>.</div> </div>					Remarks Trial pit dry and stable.			
					Scale (approx) 1:25		Logged By LR	Figure No. WG684.TP11



Site Beeslack High School, Penicuik				Trial Pit Number TP02	
Excavation Method Trial Pit		Dimensions 0.6x2.0m		Ground Level (mOD)	
		Location		Dates 11/05/2022	
				Client Midlothian Council	
				Engineer	
				Job Number WG684	
				Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	E1				(0.40)	Brown slightly silty clayey sandy TOPSOIL with rootlets and fine to medium cobbles.		
					0.40	Brown/grey slightly silty gravelly sandy gravelly CLAY with sand pockets and firm consistency possible red sandstone cobbles. Gravel is medium to coarse with small coal fragments.		
					(1.40)			
					1.80	Firm consistency brown/grey slightly silty sandy CLAY with occasional cobbles		
2.00	V 62.67kPa		45,80,63/Av. 62.67		(1.00)			
					2.80	Complete at 2.80m		



Remarks Trial pit dry and stable.		
Scale (approx) 1:25	Logged By LR	Figure No. WG684.TP02



Site Beeslack High School, Penicuik				Trial Pit Number TP03	
Excavation Method Trial Pit		Dimensions 0.6x2.1m		Ground Level (mOD)	
		Location		Dates 11/05/2022	
				Client Midlothian Council	
				Engineer	
				Job Number WG684	
				Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	E1				(0.40)	Brown slightly silty clayey sandy TOPSOIL with rootlets and fine to medium cobbles.		
0.60	E2				0.40 (0.70)	Firm brown/orange slightly silty sandy CLAY with sand pockets and cobbles throughout.		
					1.10 (1.40)	Firm brown/grey slightly silty gravelly sandy CLAY. Gravel is medium and occasional cobbles.		
					2.50 (0.50)	Firm grey slightly sandy gravelly CLAY with occasional cobbles. Gravel is medium to coarse.		
					3.00	Complete at 3.00m		



Remarks Pit stable. Water ingress at 2.3m. Field drain encountered at 0.8m.		
Scale (approx) 1:25	Logged By LR	Figure No. WG684.TP03



Site Beeslack High School, Penicuik				Trial Pit Number TP04	
Excavation Method Trial Pit		Dimensions 2.0x0.6m		Ground Level (mOD)	
		Location		Dates 11/05/2022	
				Client Midlothian Council	
				Engineer	
				Job Number WG684	
				Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.80	E1					Brown slightly silty clayey sandy TOPSOIL with rootlets and fine to medium cobbles.		
					0.50	Firm orange/brown slightly silty sandy CLAY with sand occasional sand pockets and cobbles.		
					0.60			
1.50	V 56.67kPa		56,54,60/Av. 56.67		1.10	Firm consistency grey slightly sandy CLAY with occasional cobbles. Gravel is medium to coarse.		
					(1.40)			
					2.50	Complete at 2.50m		



Remarks Pit dry and stable.		
Scale (approx) 1:25	Logged By LR	Figure No. WG684.TP04



Site Beeslack High School, Penicuik				Trial Pit Number TP05	
Excavation Method Trial Pit		Dimensions 0.6x2.1m		Ground Level (mOD)	
		Location		Dates 11/05/2022	
				Client Midlothian Council	
				Engineer	
				Job Number WG684	
				Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.30	E1				(0.50)	MADE GROUND (Brown slightly clayey sandy topsoil with brick fragments and clay piping).		
1.60	V 39.67kPa		37,42,40/Av. 39.67		0.50	Soft low strength brown/orange slightly silty gravelly sandy CLAY with sandstone cobbles throughout. Gravel is fine to medium. Clay piping at 1.6m		
					(1.30)			
					1.80	Firm brown/grey slightly silty gravelly sandy CLAY with coal gravel and sandstone cobbles.		
					(1.00)			
					2.80	Complete at 2.80m		



Remarks Pit dry and stable.		
Scale (approx) 1:25	Logged By LR	Figure No. WG684.TP05



Excavation Method Trial Pit	Dimensions 0.6x2.2m	Ground Level (mOD)	Client Midlothian Council	Job Number WG684
	Location	Dates 11/05/2022	Engineer	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.60	E1				(0.40)	Brown slightly silty clayey sandy TOPSOIL with rootlets and fine to medium cobbles.		
0.80	V 32.67kPa		28,32,38/Av. 32.67		0.40	Soft low strength brown/grey slightly silty gravelly sandy CLAY with sandstone cobbles throughout. Gravel is fine to medium.		
					(0.80)			
					1.20	Firm dark browns/grey slightly silty gravelly sandy CLAY with sandstone cobbles throughout. Gravel is medium to coarse.		
					(1.50)			
					2.70	Complete at 2.70m		



Remarks Pit dry and stable.		
Scale (approx) 1:25	Logged By LR	Figure No. WG684.TP06



Excavation Method Trial Pit	Dimensions 0.6x2.0m	Ground Level (mOD)	Client Midlothian Council	Job Number WG684
	Location	Dates 11/05/2022	Engineer	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	E1				(0.40)	MADE GROUND (Brown slightly clayey sandy topsoil with brick fragments, ceramic and glass).		
0.60	E2				0.40 (0.80)	Orange/brown slightly gravelly SAND. Gravel is fine to coarse.		
2.00	V 44.67kPa	45,40,49/Av. 44.67			1.20 (1.80)	Firm grey slightly silty slightly sandy CLAY with occasional cobbles.		
					3.00	Complete at 3.00m		



Remarks Slight water ingress at 1.4m. Trial pit stable.		
Scale (approx) 1:25	Logged By LR	Figure No. WG684.TP07



Site Beeslack High School, Penicuik				Trial Pit Number TP08				
Excavation Method Trial Pit		Dimensions 0.6x2.1m		Ground Level (mOD)				
		Location		Dates 11/05/2022				
				Engineer				
				Job Number WG684				
				Sheet 1/1				
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.80	E1					Brown slightly clayey sandy TOPSOIL with rootlets and fine to medium cobbles.		
					0.50	Brown/grey sandy GRAVEL with occasional cobbles.		
					2.10	Complete at 2.10m		
Remarks Trial pit terminated at 2.1m Pit unstable Moderate water ingress at 1.9m								
				Scale (approx) 1:25		Logged By LR		Figure No. WG684.TP08

**Site**

Beeslack High School, Penicuik

Trial Pit**Number****TP09****Excavation Method**

Trial Pit

Dimensions

0.6x2.0m

Ground Level (mOD)**Client**

Midlothian Council

Job**Number**

WG684

Location**Dates**

11/05/2022

Engineer**Sheet**

1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.90	E1				(0.50)	MADE GROUND (Brown slightly clayey sandy topsoil with ceramic fragments and rootlets throughout).		
					0.50	Orange/brown slightly silty sandy GRAVEL with occasional cobbles. Gravel is fine to coarse.		
					(1.80)			
					2.30	Complete at 2.30m		

**Remarks**Trial pit unstable.
Water ingress at 2.1m.**Scale (approx)**

1:25

Logged By

LR

Figure No.

WG684.TP09



Excavation Method Trial Pit	Dimensions 0.6x2.3m	Ground Level (mOD)	Client Midlothian Council	Job Number WG684
	Location	Dates 12/05/2022	Engineer	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.40	E1				(0.50)	MADE GROUND (Brown slightly clayey sandy topsoil with rootlets, ceramic fragments and glass).		
0.90	E2				0.50	Firm orange/brown slightly silty gravelly sandy CLAY. Gravel is fine to medium with occasional cobbles.		
					(1.90)			
2.40	V 32kPa	35,39,22/Av. 32.00			2.40	Firm grey slightly silty sandy gravelly CLAY with red sandstone cobbles. Gravel is fine to medium.		
					(0.50)			
					2.90	Complete at 2.90m		



Remarks Trial pit dry and stable.		
Scale (approx) 1:25	Logged By LR	Figure No. WG684.TP11



Site Beeslack High School, Penicuik				Trial Pit Number TP12	
Excavation Method Trial Pit		Dimensions 0.6x2.2m		Ground Level (mOD)	
		Location		Dates 12/05/2022	
				Client Midlothian Council	
				Engineer	
				Job Number WG684	
				Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	E1				(0.40)	MADE GROUND (Brown slightly clayey sandy topsoil with glass throughout).		
0.60	E2				0.40 (0.40)	Orange/brown sandy GRAVEL with occasional cobbles.		
					0.80 (2.10)	Brown/grey slightly silty sandy CLAY with occasional cobbles. Gravel is medium to coarse.		
					2.90	Complete at 2.90m		



Remarks Trial pit dry and stable.		
Scale (approx) 1:25	Logged By LR	Figure No. WG684.TP12



Excavation Method Trial Pit	Dimensions 0.6x2.0m	Ground Level (mOD)	Client Midlothian Council	Job Number WG684
	Location	Dates 12/05/2022	Engineer	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.80	E1				(0.50)	Brown slightly clayey sandy TOPSOIL. Gravel is fine to medium.		
					0.50	Brown/orange sandy GRAVEL with occasional cobbles.		
					(1.30)			
					1.80	Brown/grey slightly silty sandy CLAY with occasional cobbles. Gravel is medium to coarse.		
					(1.10)			
					2.90	Complete at 2.90m		



Remarks Field drain encountered at 1.3m Trial pit dry and stable.		
Scale (approx) 1:25	Logged By LR	Figure No. WG684.TP13



Excavation Method Trial Pit	Dimensions 0.6x2.3m	Ground Level (mOD)	Client Midlothian Council	Job Number WG684
	Location	Dates 12/05/2022	Engineer	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.60	E1				(0.50)	Brown slightly clayey sandy TOPSOIL with fine to medium gravel.		
					0.50	Orange/brown sandy GRAVEL with occasional cobbles .		
					(1.10)			
					1.60	Grey/brown slightly sandy CLAY with occasional cobbles. Gravel is fine to medium.		
					(1.50)			
					3.10	Complete at 3.10m		



Remarks Trial pit dry and stable.		
Scale (approx) 1:25	Logged By LR	Figure No. WG684.TP14



Site Beeslack High School, Penicuik				Trial Pit Number TP15				
Excavation Method Trial Pit		Dimensions 0.6x2.4m		Ground Level (mOD)				
		Location		Dates 12/05/2022				
				Client Midlothian Council				
				Engineer				
				Job Number WG684				
				Sheet 1/1				
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	E1				(0.40)	MADE GROUND (Brown slightly clayey sandy topsoil with glass fragments. Gravel is medium to coarse)		
					0.40	Orange/brown sandy GRAVEL with occasional cobbles.		
					(0.70)			
					1.10	Frim brown/grey slightly silty gravelly sandy CLAY with occasional cobbles. Gravel is fine to medium.		
					(1.90)			
					3.00	Complete at 3.00m		



Remarks Moderate water ingress at 2.5m Trial pit stable.		
Scale (approx) 1:25	Logged By LR	Figure No. WG684.TP15



Site Beeslack High School, Penicuik				Trial Pit Number TP16	
Excavation Method Trial Pit		Dimensions 0.6x2.5m		Ground Level (mOD)	
		Location		Dates 12/05/2022	
				Client Midlothian Council	
				Engineer	
				Job Number WG684	
				Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	E1				(0.40)	Brown slightly clayey sandy TOPSOIL with fine to medium gravel.		
0.60	E2				0.40	Orange/brown sandy GRAVEL with occasional cobbles and pockets of sand.		
					(1.60)			
2.10	V 52.33kPa		59,55,43/Av. 52.33		2.00	Firm brown/grey slightly silty gravelly sandy CLAY with occasional cobbles. Gravel is fine.		
					(1.10)			
					3.10	Complete at 3.10m		



Remarks Trial pit dry and stable.		
Scale (approx) 1:25	Logged By LR	Figure No. WG684.TP16



Site

Beeslack High School, Penicuik

**Trial Pit
Number**
TP17

Excavation Method

Trial Pit

Dimensions

0.6x2.2m

Ground Level (mOD)

Client	
---------------	--

Midlothian Council

**Job
Number**
WG684

Location

Dates

12/05/2022

Engineer

Sheet

1/1

Depth
(m)

Sample / Tests

Water
Depth
(m)

Field Records

Level
(mOD)

Depth
(m)
(Thickness)

Description

Legend

Water

Brown slightly clayey sandy TOPSOIL with fine to medium gravel.

(0.50)

0.50

(1.90)

2.40

(0.60)

3.00

Complete at 3.00m



Remarks

Field drain encountered at 1.0m
Trial pit dry and stable.

Scale (approx)






1:25

Logged By

LR

Figure No.

WG684.TP17

 Johnson Poole & Bloomer					Site Beeslack High School, Penicuik		Trial Pit Number TP18	
Excavation Method Trial Pit		Dimensions 0.6x2.3m		Ground Level (mOD)		Client Midlothian Council		Job Number WG684
		Location		Dates 12/05/2022		Engineer		Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.80	E1				 (0.40)	Brown slightly clayey sandy TOPSOIL with fine to medium gravel.		
					0.40	Orange/brown sandy GRAVEL with occasional cobbles.		
					(2.30)			
					2.70	Complete at 2.70m		
					Remarks Moderate water ingress at base. Trial pit stable.			
					Scale (approx) 1:25		Logged By LR	



Site Beeslack High School, Penicuik				Trial Pit Number TP19				
Excavation Method Trial Pit		Dimensions 0.6x2.2m		Ground Level (mOD)				
		Location		Dates 12/05/2022				
				Client Midlothian Council				
				Engineer				
				Job Number WG684				
				Sheet 1/1				
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
1.20	E1				(0.30)	Brown slightly clayey sandy TOPSOIL with fine to medium gravel.		
					0.30	Orange/brown sandy GRAVEL with occasional cobbles.		
					(2.20)			
					2.50	Complete at 2.50m		

Remarks
Moderate water ingress at 2.0m.
Trial pit terminated at 2.5m
Trial pit unstable.


Scale (approx) 1:25	Logged By LR	Figure No. WG684.TP19
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Site Beeslack High School, Penicuik				Trial Pit Number TP20	
Excavation Method Trial Pit		Dimensions 0.6x2.1m		Ground Level (mOD)	
		Location		Dates 12/05/2022	
				Client Midlothian Council	
				Engineer	
				Job Number WG684	
				Sheet 1/1	




Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	E1				(0.40)	Brown slightly clayey sandy TOPSOIL with fine to medium gravel.		
					0.40 (0.20)	Light grey/brown sandy GRAVEL with sandy pockets and occasional cobbles.		
					0.60	Brown/orange sandy GRAVEL with occasional cobbles.		
					(1.70)			
					2.30	Complete at 2.30m		




Remarks

Field drain encountered at 0.9m.
 Water ingress at 1.8m.
 Trial pit terminated due to water making pit unstable.

Scale (approx) 1:25	Logged By LR	Figure No. WG684.TP20
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 Johnson Poole & Bloomer					Site Beeslack High School, Penicuik		Trial Pit Number TP21	
Excavation Method Trial Pit		Dimensions 0.6x2.3m		Ground Level (mOD)		Client Midlothian Council		Job Number WG684
		Location		Dates 12/05/2022		Engineer		Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.80	E1					Brown slightly clayey sandy TOPSOIL with fine to medium gravel.		
					0.40	Orange/brown sandy GRAVEL with occasional cobbles.		
					(2.40)			
					2.80	Complete at 2.80m		



Remarks Trial pit unstable.		
Scale (approx) 1:25	Logged By LR	Figure No. WG684.TP21



Site Beeslack High School, Penicuik				Trial Pit Number TP22					
Excavation Method Trial Pit		Dimensions 0.6x2.2m		Ground Level (mOD)					
		Location		Dates 12/05/2022					
				Engineer					
				Job Number WG684					
				Sheet 1/1					
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
1.20	E1					Brown slightly clayey sandy TOPSOIL with fine to medium gravel.			
					(0.70)				
					0.70	Firm brown/grey sandy gravelly CLAY with fine to medium gravel. Gravel is fine to medium with occasional cobbles.			
					(0.70)				
					1.40	Orange/brown sandy GRAVEL with occasional cobbles.			
					(0.90)				
					2.30	Complete at 2.30m			

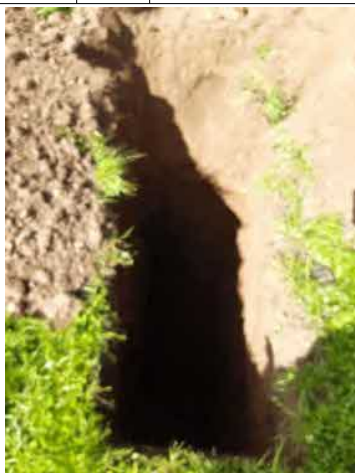


Remarks Field drain encountered at 0.6m Slight water ingress at 1.7m Trial pit terminated due to water at base. Trial pit unstable.		
Scale (approx) 1:25	Logged By LR	Figure No. WG684.TP22






















































Site Beeslack High School, Penicuik				Trial Pit Number TP23	
Excavation Method Trial Pit		Dimensions 0.6x2.3m		Ground Level (mOD)	
		Location		Dates 12/05/2022	
				Client Midlothian Council	
				Engineer	
				Job Number WG684	
				Sheet 1/1	


Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	E1				(0.50)	Brown slightly clayey sandy TOPSOIL with fine to medium gravel.		
0.80	E2				(0.80)	Orange/brown slightly gravelly SAND. Gravel is fine to medium.		
1.50	V 45.67kPa		50,45,42/Av. 45.67		(1.70)	Sof grey slightly silty slightly sandy CLAY with blue sandy textured material.		
					3.00	Complete at 3.00m		








Remarks Slight water ingress at 1.5m. Trial pit stable.		
Scale (approx) 1:25	Logged By LR	Figure No. WG684.TP23


 Johnson Poole & Bloomer					Site Beeslack High School, Penicuik		Trial Pit Number TP24	
Excavation Method Trial Pit		Dimensions 0.6x2.3m		Ground Level (mOD)		Client Midlothian Council		Job Number WG684
		Location		Dates 12/05/2022		Engineer		Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.60	E1					Brown slightly clayey sandy TOPSOIL with fine to medium gravel.		
					0.40	Brown/orange slightly clayey slightly gravelly SAND with occasional cobbles.		
					0.80	Grey sandy GRAVEL with occasional cobbles.		
					1.60	Complete at 1.60m		
					Remarks Field drain encountered at 0.5m. Rapid water ingress at 1.2m. Trial pit terminated due to instability.			
					Scale (approx) 1:25		Logged By LR	









 Johnson Poole & Bloomer					Site Beeslack High School, Penicuik		Trial Pit Number TP25	
Excavation Method Trial Pit		Dimensions 0.6x2.0m		Ground Level (mOD)		Client Midlothian Council		Job Number WG684
		Location		Dates 12/05/2022		Engineer		Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	E1				(0.40)	MADE GROUND (slightly clayey sandy topsoil with brick, clay pipe fragments throughout).		
0.50	E2				0.40	Brown/grey sandy GRAVEL with pockets of ashy material and occasional cobbles.		
					(1.10)			
					1.50	Grey slightly silty sandy CLAY with occasional cobbles.		
1.70	V 52.67kPa		50,43,65/Av. 52.67		(1.20)			
								
								
								
								
					2.70	Complete at 2.70m		
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								











Remarks Moderate water ingress at 1.6m. Field drain encountered at 0.9m. Trial pit terminated due to instability of pit.		
Scale (approx) 1:25	Logged By LR	Figure No. WG684.TP25








 Johnson Poole & Bloomer					Site Beeslack High School, Penicuik		Trial Pit Number TP26	
Excavation Method Trial Pit		Dimensions 0.6x2.3m		Ground Level (mOD)		Client Midlothian Council		Job Number WG684
		Location		Dates 12/05/2022		Engineer		Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.70	E1				0.40	Brown slightly clayey sandy TOPSOIL with occasional cobbles and medium to coarse gravel.		
					0.40	Brown/grey slightly clayey gravelly SAND.		
					0.80	Firm grey slightly silty gravelly sandy CLAY with occasional cobbles. Gravel is medium to coarse.		
					(2.10)			
					2.90	Complete at 2.90m		




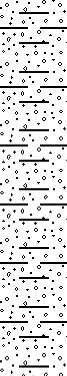

	Remarks Field drain encountered at 0.7m. Trial pit dry and unstable.		
	Scale (approx) 1:25	Logged By LR	Figure No. WG684.TP26








 Johnson Poole & Bloomer					Site Beeslack High School, Penicuik		Trial Pit Number TP01	
Excavation Method Trial Pit		Dimensions 0.5x1.9m		Ground Level (mOD)		Client Etive Consulting Engineers Limited		Job Number WG684.
		Location		Dates 25/06/2024		Engineer		Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					<div> <div></div> <div>(0.50)</div> </div> <div> <div></div> <div>0.50</div> </div> <div> <div></div> <div>(0.60)</div> </div> <div> <div></div> <div>1.10</div> </div> <div> <div></div> <div>(0.50)</div> </div> <div> <div></div> <div>1.60</div> </div> <div> <div></div> <div>(1.00)</div> </div> <div> <div></div> <div>2.60</div> </div>	Brown slightly clayey, gravelly, sandy TOPSOIL with rootlets throughout. Mottled grey-orange very clayey, gravelly, fine to coarse SAND. Gravel is fine to coarse, subangular to subrounded. Assessed as dense using a geological pick at 0.6m and 0.8m. Red-brown slightly clayey, gravelly, fine to coarse SAND. Gravel is fine to coarse, subangular to subrounded. Red-brown very sandy, coarse, subangular to subrounded GRAVEL. Complete at 2.60m	     	
					Remarks Moderate water seepage at 1.50m. Trial pit terminated due to water seepage and instability. Field drain at 1.0m.			
					Scale (approx) 1:25		Logged By LR	








 Johnson Poole & Bloomer					Site Beeslack High School, Penicuik		Trial Pit Number TP02	
Excavation Method Trial Pit		Dimensions 0.5x2.2m		Ground Level (mOD)		Client Etive Consulting Engineers Limited		Job Number WG684.
		Location		Dates 25/06/2024		Engineer		Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.60	CB1					Brown slightly clayey, gravelly, sandy TOPSOIL with rootlets throughout.		
					0.50	Grey slightly clayey, very gravelly, fine to coarse SAND. Gravel is fine to coarse, subangular to subrounded. Assessed as medium dense using a geological pick at 0.6m, 0.8m and 1.0m.		
					(0.80)			
					1.30	Orange-brown very sandy, fine to coarse GRAVEL.		
					(1.50)			
					2.80	Firm consistency, grey very sandy CLAY.		
					3.00	Complete at 3.00m		











	Remarks Trial pit was wet and unstable. Moderate water seepage at 1.3m.		
	Scale (approx) 1:25	Logged By LR	Figure No. WG684..TP02





















 Johnson Poole & Bloomer					Site Beeslack High School, Penicuik		Trial Pit Number TP03		
Excavation Method Trial Pit		Dimensions 0.5x1.9m		Ground Level (mOD)		Client Etive Consulting Engineers Limited		Job Number WG684.	
		Location		Dates 25/06/2024		Engineer		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
2.60	V 42.67kPa		42,46,40/Av. 42.67		0.40	Brown slightly clayey, gravelly, sandy TOPSOIL with rootlets throughout.			
					0.40	Orange-brown very sandy fine to coarse GRAVEL of sandstones and mudstones. Assessed as medium dense at 0.6m, 0.8m and 1.0m using a geological pick.			
					(2.00)				
					2.40	Firm consistency, medium strength grey sandy gravelly CLAY. Gravel is fine to coarse, subangular to subrounded.			
					(0.60)				
					3.00	Complete at 3.00m			
					Remarks Pit was dry and stable.				
					Scale (approx) 1:25		Logged By LR		Figure No. WG684..TP03













 Johnson Poole & Bloomer					Site Beeslack High School, Penicuik		Trial Pit Number TP04	
Excavation Method Trial Pit		Dimensions 0.5x2.0m		Ground Level (mOD)		Client Etive Consulting Engineers Limited		Job Number WG684.
		Location		Dates 25/06/2024		Engineer		Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend
0.60	CB1				0.50	Brown slightly clayey, gravelly, sandy TOPSOIL with rootlets throughout.		
					1.30	Grey-brown slightly gravelly, fine to coarse SAND. Gravel is fine to coarse, subangular to subrounded. Assessed as medium dense using a geological pick at 0.6m, 0.8m and 1.0m.		
2.00	V 44.67kPa		46,42,46/Av. 44.67		1.80	Firm consistency, medium strength grey slightly sandy, gravelly CLAY with occasional cobbles up to 230mm of subrounded. Gravel is fine to coarse, subangular to subrounded.		
					3.10	Complete at 3.10m		
					Remarks Pit was dry and stable.			
					Scale (approx) 1:25		Logged By LR	





















 Johnson Poole & Bloomer					Site Beeslack High School, Penicuik		Trial Pit Number TP05	
Excavation Method Trial Pit		Dimensions 0.5x2.1m		Ground Level (mOD)		Client Etive Consulting Engineers Limited		Job Number WG684.
		Location		Dates 25/06/2024		Engineer		Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
1.50	V 51.67kPa		55,48,52/Av. 51.67		(0.70)	Brown slightly clayey, gravelly, sandy TOPSOIL with rootlets throughout.		
					0.70 (0.50)	Grey-brown gravelly, fine to coarse SAND. Gravel is fine to coarse, subangular to subrounded. Assessed as medium dense using a geological pick 0.8m and 1.0m.		
					1.20	Firm consistency. medium strength grey sandy, gravelly CLAY with fine to coarse gravel, subangular to subrounded.		
1.80	V 49.67kPa		50,45,54/Av. 49.67		(1.80)			
					3.00	Complete at 3.00m		
					Remarks Slight water seepage at base of pit. Pit was stable.			
					Scale (approx) 1:25		Logged By LR	



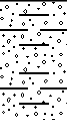
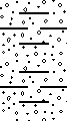
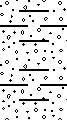

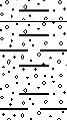
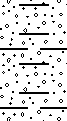


 Johnson Poole & Bloomer					Site Beeslack High School, Penicuik		Trial Pit Number TP06	
Excavation Method Trial Pit		Dimensions 0.5x1.9m		Ground Level (mOD)		Client Etive Consulting Engineers Limited		Job Number WG684.
		Location		Dates 25/06/2024		Engineer		Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.60	CB1				 (0.40)	Brown slightly clayey, sandy, gravelly TOPSOIL with rootlets throughout.		
					0.40 (0.90)	Brown-grey very gravelly, fine to coarse SAND with fine to coarse gravel. Assessed as medium dense using geological pick at 0.8m and 1.0m.		
2.30	V 52.33kPa		53,48,56/Av. 52.33		1.30 (0.90)	Brown-grey very sandy, fine to coarse GRAVEL, subangular to subrounded.		
					2.20 (0.80)	Firm consistency, medium strength grey sandy, gravelly CLAY with occasional cobbles and fine to coarse gravel, subangular to subrounded.		
					3.00	Complete at 3.00m		
					Remarks Moderate water seepage at 1.8m. Pit was wet and unstable.			
					Scale (approx) 1:25		Logged By LR	




 Johnson Poole & Bloomer					Site Beeslack High School, Penicuik		Trial Pit Number TP07	
Excavation Method Trial Pit		Dimensions 0.5x2.1m		Ground Level (mOD)		Client Etive Consulting Engineers Limited		Job Number WG684.
		Location		Dates 25/06/2024		Engineer		Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.40	V 114kPa		125,105,112/Av. 114.00		(0.30)	Brown slightly sandy, slightly gravelly, clayey TOPSOIL with rootlets throughout.		
0.60	V 96.67kPa		94,106,90/Av. 96.67		0.30	Firm consistency, high strength mottled grey-orange sandy, gravelly CLAY with occasional cobbles. Gravel is fine to coarse, subangular to subrounded.		
0.60	CB1							
0.80	V 113.33kPa		120,124,96/Av. 113.33					
					(2.30)			
					2.60	Firm consistency, medium strength grey very sandy, gravelly CLAY. Gravel is fine to coarse, subangular to subrounded of mudstone and coal gravels. Unable to take handvane exsitu due to clay being friable.		
					(0.40)			
					3.00	Complete at 3.00m		
					Remarks Pit was dry and stable.			
					Scale (approx) 1:25	Logged By LR	Figure No. WG684..TP07	



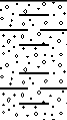
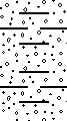
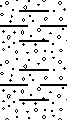

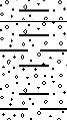
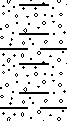


 Johnson Poole & Bloomer					Site Beeslack High School, Penicuik		Trial Pit Number TP07A/SA01	
Excavation Method Trial Pit		Dimensions 0.5x1.8m		Ground Level (mOD)		Client Etive Consulting Engineers Limited		Job Number WG684.
		Location		Dates 26/06/2024		Engineer		Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.60	V 80kPa		75,87,78/Av. 80.00		(0.30)	Brown slightly sandy, gravelly, clayey TOPSOIL with rootlets throughout.		
0.80	V 72kPa		72,76,68/Av. 72.00		0.30	Firm consistency, high strength brown sandy, gravelly CLAY. Gravel is fine to coarse, subangular to subrounded.		
					(1.30)			
					1.60	Complete at 1.60m		
								
								
								
								
								
								
								
								
								
								
								
								
								
								
					Remarks Pit terminated for soakaway test. Pit dry and stable.			
					Scale (approx) 1:25	Logged By LR	Figure No. WG684..TP07A/SA01	






 Johnson Poole & Bloomer					Site Beeslack High School, Penicuik		Trial Pit Number TP08	
Excavation Method Trial Pit		Dimensions 0.5x2.1m		Ground Level (mOD)		Client Etive Consulting Engineers Limited		Job Number WG684.
		Location		Dates 25/06/2024		Engineer		Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.60	V 71.67kPa		75,68,72/Av. 71.67		(0.40)	Brown slightly clayey, sandy, gravelly TOPSOIL with rootlets throughout.		
0.60	CB1				0.40	Firm consistency, high strength grey sandy gravelly CLAY. Gravel is fine to coarse, subangular to subrounded.		
0.80	V 74kPa		62,84,76/Av. 74.00					
1.00	V 79.33kPa		80,72,86/Av. 79.33					
								
								
					(2.60)			
								
								
					3.00	Complete at 3.00m		
					Remarks Pit was dry and stable.			
					Scale (approx) 1:25	Logged By LR	Figure No. WG684..TP08	










 Johnson Poole & Bloomer					Site Beeslack High School, Penicuik		Trial Pit Number TP08A/SA02	
Excavation Method Trial Pit		Dimensions 0.5x1.7m		Ground Level (mOD)		Client Etive Consulting Engineers Limited		Job Number WG684.
		Location		Dates 26/06/2024		Engineer		Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.60	V 84kPa		76,92,84/Av. 84.00		(0.30)	Brown slightly sandy, gravelly clayey TOPSOIL with rootlets throughout.		
0.80	V 75.33kPa		72,78,76/Av. 75.33		0.30	Firm consistency, brown sandy, gravelly CLAY. Gravel is fine to coarse, subangular to subrounded.		
					(1.20)			
					1.50	Complete at 1.50m		
								
								
								
								
								
								
								
								
								
								
								
								
								
								
					Remarks Pit terminated for soakaway. Pit was dry and stable.			
					Scale (approx) 1:25		Logged By LR	













 Johnson Poole & Bloomer					Site Beeslack High School, Penicuik		Trial Pit Number TP09		
Excavation Method Trial Pit		Dimensions 0.5x2.0m		Ground Level (mOD)		Client Etive Consulting Engineers Limited		Job Number WG684.	
		Location		Dates 25/06/2024		Engineer		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
0.60	V 78.67kPa		82,76,78/Av. 78.67		(0.40)	Brown slightly sandy, slightly gravelly, clayey TOPSOIL with rootlets throughout.			
0.60	CB1				0.40	Firm consistency, high strength mottled brown-grey-orange sandy, gravelly CLAY with occasional cobbles. Gravel is fine to coarse, subangular to subrounded.			
0.80	V 83.33kPa		80,78,92/Av. 83.33						
1.00	V 86.67kPa		90,84,86/Av. 86.67						
					(1.70)				
					2.10	Stiff consistency, probale high strength grey slightly sandy, slightly gravelly CLAY with frequent cobbles. Gravel is fine to coarse, subangular to angular. Unable to take handvane readings exsitu due to clay being friable.			
					(0.90)				
					3.00	Complete at 3.00m			
					Remarks Pit was dry and stable.				
					Scale (approx) 1:25		Logged By LR		Figure No. WG684..TP09



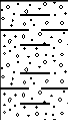

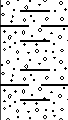
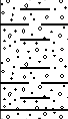

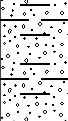

<div></div> <div>Johnson Poole & Bloomer</div>					Site Beeslack High School, Penicuik		Trial Pit Number TP09A/SA03			
Excavation Method Trial Pit		Dimensions 0.5x1.8m		Ground Level (mOD)		Client Etive Consulting Engineers Limited		Job Number WG684.		
		Location		Dates 26/06/2024		Engineer		Sheet 1/1		
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water		
0.60	V 76.67kPa		82,76,72/Av. 76.67		(0.40)	Brown slightly sandy, gravelly, clayey TOPSOIL with rootlets throughout.				
					0.40	Firm consistency, brown sandy gravelly CLAY. Gravel is fine to coarse, subangular to subrounded.				
					(1.10)					
					1.50	Complete at 1.50m				
Plan					Remarks					
.					Pit terminated for soakaway.					
.					Pit dry and stable.					
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					Scale (approx)		Logged By		Figure No.	
					1:25		LR		WG684..TP09A/SA03	







 Johnson Poole & Bloomer					Site Beeslack High School, Penicuik		Trial Pit Number TP10	
Excavation Method Trial Pit		Dimensions 0.5x2.2m		Ground Level (mOD)		Client Etive Consulting Engineers Limited		Job Number WG684.
		Location		Dates 25/06/2024		Engineer		Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.60	V 77.67kPa		85,78,70/Av. 77.67		(0.40)	Brown slightly sandy, slightly gravelly, clayey TOPSOIL with rootlets throughout.		
0.60	CB1				0.40	Firm consistency, high strength mottled brown-grey-orange sandy, gravelly CLAY with occasional cobbles. Gravel is fine to coarse, subangular to subrounded.		
0.80	V 76.67kPa		74,80,76/Av. 76.67					
1.00	V 98.67kPa		120,86,90/Av. 98.67					
					(1.70)			
					2.10	Stiff consistency, grey slightly sandy, slightly gravelly CLAY with frequent cobbles. Gravel is fine to coarse, subangular to subrounded. Unable to take handvane readings exsitu due to clay being friable.		
					(0.90)			
					3.00	Complete at 3.00m		
					Remarks Pit was dry and stable.			
					Scale (approx) 1:25	Logged By LR	Figure No. WG684..TP10	


















 Johnson Poole & Bloomer					Site Beeslack High School, Penicuik		Trial Pit Number TP10A/SA04	
Excavation Method Trial Pit		Dimensions 0.5x1.8m		Ground Level (mOD)		Client Etive Consulting Engineers Limited		Job Number WG684.
		Location		Dates 26/06/2024		Engineer		Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.60	V 66kPa		60,66,72/Av. 66.00		(0.30)	Brown slightly sandy, gravelly, clayey TOPSOIL with rootlets throughout.		
					0.30	Firm consistency, medium strength mottled brown-grey sandy, gravelly CLAY with occasional cobbles. Gravel is fine to coarse, subangular to subrounded.		
					(1.30)			
					1.60	Complete at 1.60m		
					Remarks Pit terminated for soakaway. Pit dry and stable.			
					Scale (approx) 1:25		Logged By LR	


































 Johnson Poole & Bloomer					Site Beeslack High School, Penicuik		Trial Pit Number TP11	
Excavation Method Trial Pit		Dimensions 0.5x2.1m		Ground Level (mOD)		Client Etive Consulting Engineers Limited		Job Number WG684.
		Location		Dates 25/06/2024		Engineer		Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.60	V 76.67kPa		80,74,76/Av. 76.67		(0.50)	Brown slightly sandy, gravelly, clayey TOPSOIL with rootlets throughout.		
0.60	CB1				0.50	Firm consistency, high strength mottled brown-grey-orange sandy, gravelly CLAY with occasional cobbles. Gravel is fine to coarse, subangular to subrounded.		
0.80	V 76kPa		72,80,76/Av. 76.00					
1.00	V 78.67kPa		92,70,74/Av. 78.67		(1.50)			
					2.00	Firm consistency, brown very sandy, slightly gravelly CLAY. Gravel is fine to coarse, subangular to subrounded.		
					(1.00)			
					3.00	Complete at 3.00m		
					Remarks Pit was dry and stable.			
					Scale (approx) 1:25		Logged By LR	

 Johnson Poole & Bloomer					Site Beeslack High School, Penicuik		Trial Pit Number TP12	
Excavation Method Trial Pit		Dimensions 0.5x2.1m		Ground Level (mOD)		Client Etive Consulting Engineers Limited		Job Number WG684.
		Location		Dates 25/06/2024		Engineer		Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.60	V 91.33kPa		90,86,98/Av. 91.33			Brown slightly sandy, gravelly, clayey TOPSOIL with rootlets throughout.		
0.60	CB1				0.50	Firm consistency, high strength mottled brown-grey-orange sandy, gravelly CLAY with occasional cobbles. Gravel is fine to coarse, subangular to subrounded.		
0.80	V 109.33kPa		110,106,112/Av. 109.33					
1.00	V 107.33kPa		108,100,114/Av. 107.33					
					(1.60)			
								
					2.10	Firm consistency, brown very sandy, slightly gravelly CLAY. Gravel is fine to coarse, subangular to subrounded.		
					(0.90)			
								
					3.00	Complete at 3.00m		
					Remarks Pit was dry and stable.			
					Scale (approx) 1:25	Logged By LR	Figure No. WG684..TP12	

 Johnson Poole & Bloomer					Site Beeslack High School, Penicuik		Trial Pit Number TP13	
Excavation Method Trial Pit		Dimensions 0.5x2.5m		Ground Level (mOD)		Client Etive Consulting Engineers Limited		Job Number WG684.
		Location		Dates 26/06/2024		Engineer		Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.60	V 75kPa		75,68,82/Av. 75.00		(0.40)	Brown slightly clayey, slightly gravelly, sandy TOPSOIL with rootlets throughout.		
0.60	CB1				0.40	Firm consistency, high strength, brown sandy, gravelly CLAY. Gravel is fine to coarse, subangular to subrounded of coal.		
0.80	V 109.33kPa		110,106,112/Av. 109.33					
1.00	V 96kPa		88,96,104/Av. 96.00		(1.60)			
					2.00	Stiff consistency, high strength grey slightly sandy, gravelly CLAY with frequent cobbles. Cobbles were up to 230mm of sandstone and mudstone. Gravel is fine to coarse, subangular to subrounded.		
2.10	V 107.33kPa		108,104,110/Av. 107.33		(1.00)			
2.30	V 127.33kPa		120,140,122/Av. 127.33		3.00	Complete at 3.00m		
					Remarks Pit was dry and stable.			
					Scale (approx) 1:25		Logged By LR	

 Johnson Poole & Bloomer					Site Beeslack High School, Penicuik		Trial Pit Number TP14		
Excavation Method Trial Pit		Dimensions 0.7x2.6m		Ground Level (mOD)		Client Etive Consulting Engineers Limited		Job Number WG684.	
		Location		Dates 26/06/2024		Engineer		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
0.70	CB1					Brown slightly clayey, slightly gravelly, sandy TOPSOIL with rootlets throughout.			
					0.60	Red-brown slightly clayey, very sandy fine to coarse GRAVEL with occasional cobbles. Cobbles were up to 160mm of sandstone and mudstone. Assessed as medium dense using a geological pick at 0.7m, 0.9m and 1.0m.			
					1.20				
					1.80	Purple-grey silty, gravelly fine to coarse SAND.			
					2.70	Grey silty, very sandy, fine to coarse GRAVEL. Gravel is fine to coarse, subangular to subrounded.			
					3.00	Complete at 3.00m			
					Remarks Moderate water seepage at 2.0m Pit was unstable.				
					Scale (approx) 1:25		Logged By LR		Figure No. WG684..TP14

 Johnson Poole & Bloomer					Site Beeslack High School, Penicuik		Trial Pit Number TP15	
Excavation Method Trial Pit		Dimensions 0.7x2.5m		Ground Level (mOD)		Client Etive Consulting Engineers Limited		Job Number WG684.
		Location		Dates 26/06/2024		Engineer		Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.60	CB1				(0.40) 0.40 (0.30) 0.70 (0.80)	Brown slightly clayey, slightly gravelly, sandy TOPSOIL with rootlets throughout. Red-brown gravelly SAND with lenses of very sandy clay. Gravel is fine to coarse, subangular to subrounded. Assessed as medium dense using a geological pick at 0.6m. Orange-brown very sandy, fine to coarse GRAVEL. Assessed as medium dense using a geological pick at 0.8m and 1.0m.	 	
1.60	V 57.33kPa		45,72,55/Av. 57.33		1.50	Firm consistency, medium strength grey sandy, gravelly CLAY with occasional cobbles and boulders. Cobbles and boulders were up to 620mm of coal, mudstone and sandstone. Gravel is fine to coarse, subangular to subrounded.	            	
1.80	V 52.67kPa		56,42,60/Av. 52.67		(1.50)			
					3.00	Complete at 3.00m		
					Remarks Slight water ingress at 1.4m. Pit was stable.			
					Scale (approx) 1:25	Logged By LR	Figure No. WG684..TP15	

 Johnson Poole & Bloomer					Site Beeslack High School, Penicuik		Trial Pit Number TP16	
Excavation Method Trial Pit		Dimensions 0.7x2.6m		Ground Level (mOD)		Client Etive Consulting Engineers Limited		Job Number WG684.
		Location		Dates 26/06/2024		Engineer		Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.60	V 54.67kPa		56,48,60/Av. 54.67		(0.40)	Brown slightly clayey, gravelly, sandy TOPSOIL with rootlets throughout.		
0.60	CB1				0.40	Firm consistency, medium strength brown sandy, gravelly CLAY with occasional cobbles. Gravel is fine to coarse, subangular to subrounded.		
0.80	V 53kPa		65,42,52/Av. 53.00					
1.00	V 54kPa		54,58,50/Av. 54.00					
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
					Remarks Slight water seepage at the base. Pit was wet and stable.			
					Scale (approx) 1:25	Logged By LR	Figure No. WG684..TP16	



Appendix 8 Site Investigation Report – Aitken Laboratories Ltd – July 2022 and October 2024

**FACTUAL REPORT
ON
GROUND INVESTIGATION
AT
BEESLACK HIGH SCHOOL
PENICUIK**

June 2022

Ref No: N476

Engineer: Johnson Poole & Bloomer



Aitken Laboratories Limited

SITE INVESTIGATION CONTRACTORS
Castlehill House, Slamannan, FK1 3EZ
Tel: 01324 851389 E: office@aitkenlabs.co.uk

Johnson Poole & Bloomer
50 Speirs Wharf
Glasgow
G4 9TB

Date: 15 July 2022

Our Ref: JA/N476

Your Ref:

FAO: Mr A. Bussey

Dear Sirs

SITE INVESTIGATION AT BEESLACK HIGH SCHOOL, PENICUIK

Please find enclosed our report for the above ground investigation.

This report was prepared by Mr A. Dobinson.

We trust this report is satisfactory, however if we can be of any further assistance, please do not hesitate to contact us.

As part of our Quality System, we encourage feedback from our clients. On this basis, if you have any comments or suggestions, or if you feel we could improve our service to you in any way, we would be most interested to hear from you.

Yours faithfully
for and on behalf of
AITKEN LABORATORIES LIMITED

Alastair Dobinson
B. Eng. (Hons), C. Eng., M.I.C.E.



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2. SITE WORK	1 of 3
3. LABORATORY WORK	2 of 3
4. REFERENCES	3 of 3

Appendix 1

Site Plan
Soils Borehole Logs

BH S01 – BH S17

Appendix 2

Laboratory Testing References
Liquid Limit and Plastic Limit Test Results
PSD Test Results
Triaxial Test Results

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Page 23 – 30 of 30



FACTUAL REPORT ON GROUND INVESTIGATION AT BEESLACK HIGH SCHOOL PENICUIK

1. INTRODUCTION

It is proposed to construct a replacement Beeslack High School, Penicuik.

At the request of Johnson Poole & Bloomer, Consulting Engineers for the project, an investigation was carried out to confirm the ground conditions at the site.

This report presents the information established by observation, boring, sampling and in-situ testing. It should be noted that natural strata vary from point to point and that man-made deposits are subject to an even greater diversity. Groundwater conditions are dependent upon seasonal and other factors. Whilst an attempt is made in reporting to assess the likelihood or extent of such variations at the site, it should be recognised that there may be conditions pertaining which are not disclosed by the investigation.

Opinions and interpretations expressed herein are outside the scope of UKAS Accreditation.

2. SITE WORK

The field works were carried out during the period 16th to 24th May 2022 and comprised:-

17 No. Terrier Rig Boreholes to a maximum depth of 5.20 metres

Details of the boreholes including daily progress of hole and casing, descriptions of strata encountered, records of sampling and in-situ testing carried out, observations of groundwater conditions while boring, depths to changes in strata and details of standpipe installations are presented in the exploratory hole records in Appendix 1.

The locations of the exploratory holes were set out and recorded by the Engineer.



3. LABORATORY TESTING

The samples of soil taken during the site works were transported to the laboratory for systematic examination and testing. The characteristics of the soils determined in the laboratory were used to supplement field observations in the preparation of the final exploratory hole records.

Testing was carried out on selected samples to the requirements of the relevant British Standards, or in accordance with current good practice, as appropriate.

The Laboratory Testing References section of Appendix 2 details the tests performed in the laboratory which are UKAS accredited.

Tests marked "Not UKAS Accredited" in this report are not included in the UKAS Accreditation Schedule for our laboratory.

Laboratory Testing Comprised:-

Classification Tests
Undrained Triaxial Strength Tests

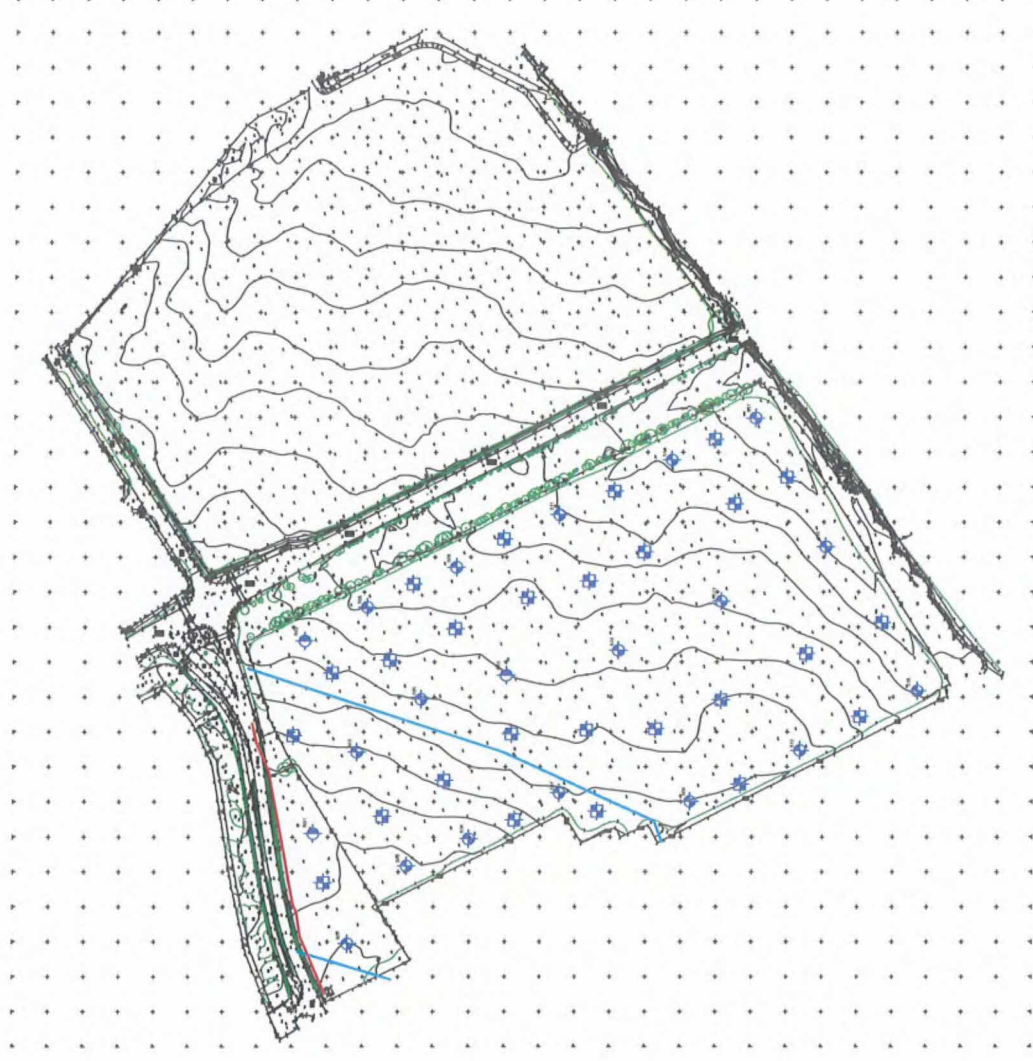
The results are presented in summary and detailed Tables and Figures in Appendix 2.



REFERENCES

1. BS5930:2015 Code of Practice for "Site Investigation" British Standard Code of Practice, British Standards Institution, London
2. BS1377:1990 Parts 1 to 9 British Standard "Methods of Test of Soils for civil engineering purposes". British Standards Institution, London.
3. BS10175:2011 Investigation of potentially contaminated site – Code of Practice.
4. Building Research Establishment, Special Digest 2005, Concrete in Aggressive Ground.

Appendix 1



- PROPOSED TWIN PIT LOCATION
- PROPOSED SOILS BORE LOCATION
- PROPOSED ROTARY BORE LOCATION
- APPROXIMATE LINE OF ELECTRICITY CABLE
- APPROXIMATE LINE OF SEWER PIPE

DATE:

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SCALE:

CLIENT NAME
CLIENT NAME

ADDRESS 1
ADDRESS 2
ADDRESS 3
ADDRESS 4

BEESLACK, PENICUIK

PROPOSED SI LOCATION PLAN

DATE:

ARB

MAK

SCALE:

1:1250

A2

DATE:

MAY 2022

WG5684-08/R/F/01



AITKEN LABORATORIES LTD

Site
BEESLACK HIGH SCHOOL, PENICUIK

Borehole Number
S01

Boring Method TERRIER RIG	Casing Diameter	Ground Level (mOD)	Client	Job Number N476
	Location	Dates 16/05/2022	Engineer JOHNSON POOLE & BLOOMER	Sheet 1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
0.20	E1					(0.20) 0.20	TOPSOIL			
0.50	E2					(0.60)	MADE GROUND (Brown silty slightly gravelly fine to coarse sand with rootlets. Gravel content is fine and medium)			
1.00	E3			5,6/6,9,10,10		0.80	Dense brown silty very sandy fine to coarse GRAVEL with cobbles			
1.20-1.65	SPT N=35 B4					(1.30)				
2.70-3.20	U5			2,2/3,3,3,4		2.10	Medium strength firm consistency greyish brown sandy slightly gravelly CLAY with fragments of sandstone. Gravel content is fine to coarse			
3.20-3.65	SPT N=13 B6					(3.10)				
4.20-5.20	B7 U			UNSUCCESSFUL U100		5.20	Complete at 5.20m			
4.20-5.20				16/05/2022:						

Remarks A 50mm diameter standpipe was installed at a depth of 5.20m # Denotes driller's description Excavating from 0.00m to 1.20m for 1.00 hour.	Scale (approx)	Logged By
	1:50	SF
	Figure No. N476.S01	



AITKEN LABORATORIES LTD

Site
BEESLACK HIGH SCHOOL, PENICUIK

Borehole
Number
S02

Boring Method TERRIER RIG	Casing Diameter		Ground Level (mOD)	Client	Job Number N476
	Location		Dates 16/05/2022	Engineer JOHNSON POOLE & BLOOMER	Sheet 1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
0.20	E1					(0.40)	TOPSOIL			
0.50	E2					0.40	Medium dense reddish brown clayey fine to coarse SAND and fine to coarse GRAVEL with pockets of clay and fragments of sandstone (Possible Made Ground)			
1.00	E3					(1.10)				
1.20-1.65	SPT N=22 B4			7,6/13,3,3,3		1.50	Medium strength firm consistency brown sandy slightly gravelly CLAY. Gravel content is fine to coarse			
2.20-3.20	U5					(2.60)				
3.20-3.65	SPT N=18 B6			3,3/4,4,5,5						
4.20-4.50	SPT 63/150 B7			5,5/13,50		4.10	#OBSTRUCTION (Bedrock or boulder)			
4.20-4.50				16/05/2022: DRY		(0.40)				
						4.50	Complete at 4.50m			

Remarks
A 50mm diameter standpipe was installed at a depth of 4.20m
Denotes driller's description
Excavating from 0.00m to 1.20m for 1.00 hour.

Scale
(approx)
1:50

Logged
By
SF

Figure No.
N476.S02



AITKEN LABORATORIES LTD

Site

BEESLACK HIGH SCHOOL, PENICUIK

Borehole
Number
S03Boring Method
TERRIER RIG

Casing Diameter

Ground Level (mOD)

Client

Job
Number
N476

Location

Dates
17/05/2022

Engineer

JOHNSON POOLE & BLOOMER

Sheet
1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
0.20	E1					(0.40)	TOPSOIL			
0.50	E2					0.40	Reddish brown clayey fine to coarse SAND and fine to coarse GRAVEL with pockets of clay (Possible Made Ground)			
1.00	E3					(1.20)				
1.20-2.20	U4					1.60	Firm consistency brown sandy gravelly CLAY with cobbles. Gravel content is fine to coarse			
						(0.80)				
2.20-2.65	SPT N=15 B5			3,4/3,4,4,4		2.40	Medium dense brown very silty gravelly fine to coarse SAND. Gravel content is fine to coarse		▽1	
2.20-2.65				Water strike(1) at 2.60m.		(1.30)				
3.20-3.65	SPT N=18 B6			4,4/4,4,5,5		3.70	Medium strength firm consistency brown sandy gravelly CLAY with cobbles. Gravel content is fine to coarse			
3.20-3.65						(1.50)				
4.20-5.20	U7					5.20	Complete at 5.20m			
				17/05/2022:2.60m						

Remarks

A 50mm diameter standpipe was installed at a depth of 4.00m
Denotes driller's description
Excavating from 0.00m to 1.20m for 1 hour.

Scale
(approx)

1:50

Logged
By

SF

Figure No.
N476.S03



AITKEN LABORATORIES LTD

Site
BEESLACK HIGH SCHOOL, PENICUIK

Borehole
Number
S04

Boring Method TERRIER RIG	Casing Diameter	Ground Level (mOD)	Client	Job Number N476
	Location	Dates 16/05/2022	Engineer JOHNSON POOLE & BLOOMER	Sheet 1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
0.20	E1					(0.40)	TOPSOIL			
0.50	E2					0.40	Firm consistency mottled brown sandy slightly gravelly CLAY with fragments of sandstone. Gravel content is fine to coarse			
1.00	E3					(0.90)				
1.20-2.20	U4					1.30	Medium strength firm consistency brownish grey sandy gravelly CLAY with cobbles. Gravel content is fine to coarse			
2.20-2.65	SPT N=25			4,4/6,6,7,6			...below 2.20m, stiff consistency			
2.20-2.65	B5			Water strike(1) at 2.70m.		(2.90)				
3.70-4.20	U6					4.20	#OBSTRUCTION (Bedrock or boulder) Complete at 4.20m			
				16/05/2022:2.70m						

Remarks A 50mm diameter standpipe was installed at a depth of 4.20m # Denotes driller's description Excavating from 0.00m to 1.20m for 1.00 hour.	Scale (approx)	Logged By
	1:50	SF
	Figure No. N476.S04	



AITKEN LABORATORIES LTD

Site
BEESLACK HIGH SCHOOL, PENICUIK

Borehole
Number
S05

Boring Method TERRIER RIG	Casing Diameter	Ground Level (mOD)	Client	Job Number N476
	Location	Dates 17/05/2022	Engineer JOHNSON POOLE & BLOOMER	Sheet 1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
0.20	E1					(0.40)	TOPSOIL			
0.50	E2					0.40	MADE GROUND (Reddish brown slightly clayey fine to coarse sand and fine to coarse gravel with burnt shale and ash)			
1.00	E3			8,9/13,9,7,7		(1.30)				
1.20-1.65	SPT N=36									
1.20-1.65	B4									
						1.70	Stiff consistency greyish brown sandy slightly gravelly CLAY. Gravel content is fine and medium			
2.20-3.20	U5					(1.30)				
						3.00	Medium dense greyish brown very clayey gravelly fine to coarse SAND with pockets of clay. Gravel content is fine to coarse			
3.20-3.65	SPT N=20			4,4/5,5,5,5		(0.40)				
3.20-3.65	B6					3.40	Medium dense greyish brown very clayey gravelly fine to coarse SAND with cobbles. Gravel content is fine to coarse			
4.20-5.20	U7					(1.80)				
						5.20	Complete at 5.20m			
				17/05/2022: DRY						

Remarks A 50mm diameter standpipe was installed at a depth of 5.20m # Denotes driller's description Excavating from 0.00m to 1.20m for 1 hour.	Scale (approx)	Logged By
	1:50	SF
	Figure No. N476.S05	



AITKEN LABORATORIES LTD

Site
BEESLACK HIGH SCHOOL, PENICUIK

Borehole
Number
S06

Boring Method
TERRIER RIG

Casing Diameter

Ground Level (mOD)

Client

Job
Number
N476

Location

Dates
17/05/2022

Engineer

JOHNSON POOLE & BLOOMER

Sheet
1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
0.20	E1					(0.60)	TOPSOIL			
0.50	E2					0.60				
1.00	E3					(1.00)	MADE GROUND (Reddish brown clayey gravelly fine to coarse sand with ash, burnt shale and cobbles. Gravel content is fine to coarse)			
1.20-1.65	SPT N=30 B4			6,7/13,6,6,5		1.60	Medium dense reddish brown clayey fine to coarse SAND and fine to coarse GRAVEL with cobbles			
2.20-2.65	SPT N=22 B5			5,4/5,5,7,5		(1.50)				
3.20-3.65	SPT N=22 B6			4,5/5,6,6,5		3.10	Stiff consistency greyish brown sandy gravelly CLAY with cobbles. Gravel content is fine to coarse			
4.20-5.20	U7					(2.10)				
				17/05/2022: DRY		5.20	Complete at 5.20m			

Remarks
A 50mm diameter standpipe was installed at a depth of 4.00m
Denotes driller's description
Excavating from 0.00m to 1.20m for 1 hour.

Scale
(approx)

1:50

Logged
By

SF

Figure No.
N476.S06



AITKEN LABORATORIES LTD

Site
BEESLACK HIGH SCHOOL, PENICUIK

Borehole
Number
S07

Boring Method
TERRIER RIG

Casing Diameter

Ground Level (mOD)

Client

Job
Number
N476

Location

Dates
23/05/2022

Engineer
JOHNSON POOLE & BLOOMER

Sheet
1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
0.20	E1					(0.30)	TOPSOIL			
0.50	E2					0.30	Reddish brown clayey gravelly fine to coarse SAND. Gravel content is fine to coarse			
1.00	E3					(0.50)				
1.20-2.20	U4					0.80	Medium strength consistency mottled brown sandy gravelly CLAY. Gravel content is fine to coarse			
						(1.40)				
2.20-2.65	SPT N=17 B5			6,4/4,5,4,4		2.20	Stiff consistency brown sandy gravelly CLAY with cobbles. Gravel content is fine to coarse			
2.20-2.65										
3.20-4.20	U6					(2.10)				
4.20-4.30	SPT 90*/100 B7			40,50/ 23/05/2022:DRY		4.30	#OBSTRUCTION (Bedrock or boulder)			
4.20-4.30							Complete at 4.30m			

Remarks
A 50mm diameter standpipe was installed at a depth of 4.00m
Denotes driller's description
Excavating from 0.00m to 1.20m for 1 hour.

Scale
(approx)
1:50

Logged
By
SM

Figure No.
N476.S07



AITKEN LABORATORIES LTD

Site
BEESLACK HIGH SCHOOL, PENICUIK

Borehole
Number
S08

Boring Method TERRIER RIG	Casing Diameter	Ground Level (mOD)	Client	Job Number N476
	Location	Dates 21/05/2022	Engineer JOHNSON POOLE & BLOOMER	Sheet 1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
0.20	E1					(0.40)	TOPSOIL			
0.50	E2					0.40	Medium dense reddish brown silty very sandy fine to coarse GRAVEL with cobbles			
1.00	E3			7,5/5,8,6,6						
1.20-1.65	SPT N=25 B4			Water strike(1) at 1.80m.						
1.20-1.65										
2.20-2.65	SPT N=19 B5			4,5/4,5,5,5		(4.00)				
2.20-2.65										
3.20-3.65	SPT N=17 B6			4,4/4,4,5,4						
3.20-3.65										
4.20-4.40	SPT 0/50 B7			8,50/ 21/05/2022:1.80m		4.40	#OBSTRUCTION (Bedrock or boulder)			
4.20-4.40							Complete at 4.40m			

Remarks A 50mm diameter standpipe was installed at a depth of 4.00m # Denotes driller's description Excavating from 0.00m to 1.20m for 1.00 hour.	Scale (approx)	Logged By
	1:50	SM
	Figure No. N476.S08	



AITKEN LABORATORIES LTD











Site
BEESLACK HIGH SCHOOL, PENICUIK

Borehole
Number
S09

Boring Method TERRIER RIG	Casing Diameter	Ground Level (mOD)	Client	Job Number N476
	Location	Dates 23/05/2022	Engineer JOHNSON POOLE & BLOOMER	Sheet 1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
0.20	E1					(0.20) 0.20	TOPSOIL			
0.50	E2					(0.40) 0.60	MADE GROUND (Brown very clayey slightly gravelly fine to coarse sand with burnt shale. Gravel content is fine and medium)			
1.00	E3			4,4/4,4,3,5		(1.10)	Medium dense brown silty fine to coarse SAND and fine to coarse GRAVEL with pockets of clay (Possible Made Ground)			
1.20-1.65	SPT N=16 B4					1.70	Stiff consistency brown sandy gravelly CLAY with cobbles. Gravel content is fine to coarse			
2.20-3.20	B5 U			Water strike(1) at 2.10m. UNSUCCESSFUL U100		(1.90)				
3.20-3.60	SPT 49/250 B6			5,5/8,1,19,21		3.60	Complete at 3.60m			
3.20-3.60				23/05/2022:2.10m						

Remarks A 50mm diameter standpipe was installed at a depth of 3.00m # Denotes driller's description Excavating from 0.00m to 1.20m for 1 hour.	Scale (approx)	Logged By
	1:50	SM
	Figure No. N476.S09	

 AITKEN LABORATORIES LTD							Site BEESLACK HIGH SCHOOL, PENICUIK		Borehole Number S10	
Boring Method TERRIER RIG		Casing Diameter		Ground Level (mOD)		Client		Job Number N476		
		Location		Dates 21/05/2022		Engineer JOHNSON POOLE & BLOOMER		Sheet 1/1		
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
0.20	E1					(0.40)	TOPSOIL			
0.50	E2					0.40	Medium dense reddish brown clayey gravelly fine to coarse SAND with pockets of clay. Gravel content is fine to coarse			
1.00	E3					(1.00)				
1.20-1.65	SPT N=24 B4			3,4/4,4,8,8		1.40	#Brown SAND and GRAVEL			
1.20-1.65						1.50	Stiff consistency greyish brown sandy gravelly CLAY with cobbles. Gravel content is fine to coarse			
2.20-2.65	SPT N=18 B5			Water strike(1) at 1.90m.						
2.20-2.65				3,3/4,5,4,5		(2.50)				
3.20-4.00	U6									
				21/05/2022:1.90m		4.00	#OBSTRUCTION (Bedrock or boulder)			
							Complete at 4.00m			
Remarks A 50mm diameter standpipe was installed at a depth of 3.00m # Denotes driller's description Excavating from 0.00m to 1.20m for 1.00 hour.								Scale (approx) 1:50	Logged By SM	
								Figure No. N476.S10		



AITKEN LABORATORIES LTD

Site
BEESLACK HIGH SCHOOL, PENICUIK
Borehole Number
S11

Boring Method
TERRIER RIG
Casing Diameter
Ground Level (mOD)
Client
Job Number
N476

Location
Dates
21/05/2022
Engineer
JOHNSON POOLE & BLOOMER
Sheet
1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
0.20	E1					(0.40)	TOPSOIL			
0.50	E2					0.40 (0.30) 0.70	MADE GROUND (Brown sandy slightly gravelly clay with brick, rootlets and cobbles. Gravel content is fine to coarse)			
1.00	E3						Medium dense reddish brown silty fine to coarse SAND and fine to coarse GRAVEL with cobbles			
1.20-1.65 1.20-1.65	SPT N=15 B4			5,4/4,3,4,4						
2.20-2.65 2.20-2.65	SPT N=19 B5			Water strike(1) at 2.00m. 4,5/5,5,4,5		(4.40)				
3.20-3.65 3.20-3.65	SPT N=20 B6			6,5/5,5,5,5						
4.10-4.55 4.20-4.65	SPT N=21 B7			5,5/5,5,5,6						
4.65-5.10 4.65-5.10	SPT(C) N=41 B8			7,8/8,9,12,12		5.10	...below 4.65m, dense			
				21/05/2022:2.00m			#OBSTRUCTION (Bedrock or boulder)			
							Complete at 5.10m			

Remarks
A 50mm diameter standpipe was installed at a depth of 4.00m
Denotes driller's description
Excavating from 0.00m to 1.20m for 1.00 hour.

Scale (approx)
1:50
Logged By
SM

Figure No.
N476.S11



AITKEN LABORATORIES LTD

Site
BEESLACK HIGH SCHOOL, PENICUIK

Borehole
Number
S12

Boring Method
TERRIER RIG

Casing Diameter

Ground Level (mOD)

Client

Job
Number
N476

Location

Dates
23/05/2022

Engineer
JOHNSON POOLE & BLOOMER

Sheet
1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
0.20	E1					(0.20)	TOPSOIL			
0.50	E2					(0.60)	MADE GROUND (Mottled brown sandy slightly gravelly clay with brick and burnt shale. Gravel content is fine to coarse)			
1.00	E3					0.80	Soft consistency mottled brown and grey sandy slightly gravelly CLAY. Gravel content is fine to coarse			
1.20-2.20	U4					1.40	High strength stiff consistency brown sandy gravelly CLAY with cobbles. Gravel content is fine to coarse			
2.20-2.65	SPT N=17 B5			4,4/4,4,4,5		(1.10)	Stiff consistency grey sandy gravelly CLAY with cobbles. Gravel content is fine to coarse			
3.20-4.20	U6					2.50				
4.20-4.50	SPT 51/150			6,7/13,38 23/05/2022:DRY		(2.00)				
						4.50	#OBSTRUCTION (Bedrock or boulder) Complete at 4.50m			

Remarks
A 50mm diameter standpipe was installed at a depth of 4.00m
Denotes driller's description
Excavating from 0.00m to 1.20m for 1 hour.

Scale
(approx)
1:50

Logged
By
SM

Figure No.
N476.S12



AITKEN LABORATORIES LTD

Site
BEESLACK HIGH SCHOOL, PENICUIK
Borehole
Number
S13

Boring Method TERRIER RIG	Casing Diameter		Ground Level (mOD)		Client		Job Number N476	
	Location		Dates 24/05/2022		Engineer JOHNSON POOLE & BLOOMER		Sheet 1/1	

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
0.20	E1					(0.30)	TOPSOIL			
0.50	E2					0.30	High strength stiff consistency mottled brown sandy slightly gravelly CLAY with fragments of coal and rootlets. Gravel content is fine and medium			
1.00	E3					(1.40)				
1.20-2.20	U4					1.70	Stiff consistency grey sandy gravelly CLAY with cobbles. Gravel content is fine to coarse			
2.20-2.65	SPT N=26 B5			6,6/6,7,7,6		(1.80)				
3.20-3.50	SPT 50/150 B6			9,12/13,37		3.50	#OBSTRUCTION (Bedrock or boulder)			
3.20-3.50				24/05/2022: DRY			Complete at 3.50m			

Remarks
A 50mm diameter standpipe was installed at a depth of 3.00m
Denotes driller's description
Excavating from 0.00m to 1.20m for 1 hour.

Scale
(approx)
1:50

Logged
By
PM

Figure No.
N476.S13



AITKEN LABORATORIES LTD

Site
BEESLACK HIGH SCHOOL, PENICUIK
Borehole Number
S14

Boring Method TERRIER RIG	Casing Diameter	Ground Level (mOD)	Client	Job Number N476
	Location	Dates 24/05/2022	Engineer JOHNSON POOLE & BLOOMER	Sheet 1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
0.20	E1					(0.50)	TOPSOIL			
0.50	E2					0.50				
1.00	E3					(1.40)	Medium dense brown silty fine to coarse SAND and fine to coarse GRAVEL with fragments of sandstone			
1.20-1.65	SPT N=15 B4			3,3/4,3,4,4		1.90				
2.20-2.65	SPT N=12 B5			3,3/3,3,3,3		(2.20)	Firm consistency grey sandy gravelly CLAY with cobbles. Gravel content is fine to coarse			
3.20-4.20	B6 U					4.10				
4.20-4.65	SPT(C) N=23			5,5/6,5,6,6		(1.10)	Medium dense grey clayey very gravelly fine to coarse SAND with pockets of clay and cobbles. Gravel content is fine to coarse			
4.65-5.10	SPT(C) N=28			7,7/7,7,7,7		5.20	Complete at 5.20m			
				24/05/2022: DRY						

Remarks
Denotes driller's description
A 50mm diameter standpipe was installed at a depth of 4.00m
Excavating from 0.00m to 1.20m for 1 hour.

Scale (approx)
1:50
Logged By
PM
Figure No.
N476.S14



AITKEN LABORATORIES LTD

Site
BEESLACK HIGH SCHOOL, PENICUIK

Borehole
Number
S15

Boring Method
TERRIER RIG

Casing Diameter

Ground Level (mOD)

Client

Job
Number
N476

Location

Dates
23/05/2022

Engineer
JOHNSON POOLE & BLOOMER

Sheet
1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
0.20	E1					(0.30)	TOPSOIL			
0.50	E2					0.30	Firm consistency mottled brown sandy slightly gravelly CLAY with fragments of coal. Gravel content is fine and medium			
1.00	E3					(0.80)				
1.20-2.00	B1					1.10	Firm consistency brown sandy slightly gravelly CLAY. Gravel content is fine and medium			
1.20-2.00	U					(1.10)				
2.00-2.45	SPT N=22			4,5/5,6,5,6		2.20	Stiff consistency greyish brown sandy gravelly CLAY with cobbles. Gravel content is fine to coarse			
2.00-2.45	B2									
3.00-4.00	U3					(1.80)				
				23/05/2022: DRY		4.00	#OBSTRUCTION (Bedrock or boulder)			
4.00-4.00	SPT 50*/0			50/			Complete at 4.00m			

Remarks
A 50mm diameter standpipe was installed at a depth of 4.00m
Denotes driller's description
Excavating from 0.00m to 1.20m for 1 hour.

Scale
(approx)
1:50

Logged
By
SM

Figure No.
N476.S15



AITKEN LABORATORIES LTD

Site
BEESLACK HIGH SCHOOL, PENICUIK

Borehole
Number
S16

Boring Method
TERRIER RIG

Casing Diameter

Ground Level (mOD)

Client

Job
Number
N476

Location

Dates
23/05/2022

Engineer
JOHNSON POOLE & BLOOMER

Sheet
1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
0.20	E1					(0.20) 0.20	TOPSOIL			
0.50	E2						Firm consistency mottled brown sandy slightly gravelly CLAY. Gravel content is fine and medium			
1.00	E3					(1.40)				
1.20-2.00	U1					1.60	Stiff consistency brown sandy slightly gravelly CLAY with cobbles. Gravel content is fine to coarse			
2.00-2.45	SPT N=19 B2			4,4/5,5,4,5		(2.20)				
3.00-4.00	U3					3.80 (0.20) 4.00	#SAND			
4.00-4.45	SPT(C) N=22			5,6/6,5,6,5		4.00	#Sandy gravelly CLAY			
4.45-4.90	SPT(C) N=26			6,6/7,6,6,7		(1.00)				
4.90-5.00	SPT(C) 6*/100			6/ 23/05/2022:DRY		5.00	Complete at 5.00m			

Remarks
A 50mm diameter standpipe was installed at a depth of 3.00m
Denotes driller's description
Excavating from 0.00m to 1.20m for 1 hour.

Scale
(approx)
1:50

Logged
By
SM

Figure No.
N476.S16



AITKEN LABORATORIES LTD

Site
BEESLACK HIGH SCHOOL, PENICUIK

Borehole
Number
S17

Boring Method TERRIER RIG	Casing Diameter	Ground Level (mOD)	Client	Job Number N476
	Location	Dates 23/05/2022- 24/05/2022	Engineer JOHNSON POOLE & BLOOMER	Sheet 1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
0.20	E1					(0.30)	TOPSOIL			
0.50	E2					0.30	#Mottled brown sandy gravelly CLAY			
1.00	E3					(1.00)				
1.20-1.65	B1			23/05/2022: DRY		1.30	Medium dense brown silty very gravelly fine to coarse SAND. Gravel content is fine to coarse			
1.20-1.65	SPT N=12			24/05/2022: DRY 3,4/3,3,3,3 Water strike(1) at 1.60m.		(1.60)				
2.20-2.65	SPT N=18 B2			3,3/3,5,5,5		2.90	Stiff consistency grey sandy gravelly CLAY with cobbles. Gravel content is fine to coarse			
3.20-3.65	SPT N=19 B3			4,4/5,5,4,5		(1.70)				
4.20-4.60	SPT 20/250 B4			5,5/5,5,5,5		4.60	Complete at 4.60m			
4.20-4.60				24/05/2022: 1.60m						

Remarks A 50mm diameter standpipe was installed at a depth of 4.00m # Denotes driller's description Excavating from 0.00m to 1.20m for 1 hour.	Scale (approx)	Logged By
	1:50	SM/PM
	Figure No. N476.S17	

Appendix 2

Laboratory Testing References

Laboratory Test	Standard Specification in Accordance with
Moisture Content	BS 1377: Part 2 1990: Clause 3.2
Liquid Limit	BS 1377: Part 2 1990: Clause 4.3
Plastic Limit	BS 1377: Part 2 1990: Clause 5.3
Plasticity Index and Liquidity Index	BS 1377: Part 2 1990: Clause 5.4
Density Measurement	BS 1377: Part 2 1990: Clause 7.2
Particle Size Distribution	BS 1377: Part 2 1990: Clause 9.2
Particle Size Distribution	BS 1377: Part 2 1990: Clause 9.3
Particle Size Distribution	BS 1377: Part 2 1990: Clause 9.5
Sulphate Content of Soil and Groundwater *	BS 1377: Part 2 1990: Clause 5.6
pH *	BS 1377: Part 2 1990: Clause 9
California Bearing Ratio	BS 1377: Part 2 1990: Clause 7
One Dimension Consolidation Properties	BS 1377: Part 5 1990: Clause 3
Undrained Shear Strength, Triaxial Compression	BS 1377: Part 2 1990: Clause 8
Undrained Shear Strength, Triaxial Compression (Multi-stage)	BS 1377: Part 2 1990: Clause 9
Dry Density/Moisture Content Relationship (2.5kg Rammer)	BS1377: Part 4 1990: Clause 3.3.3.4
Dry Density/Moisture Content Relationship (4.5kg Rammer)	BS1377: Part 4 1990: Clause 3.5.3.6

***Tests marked with asterisk are not UKAS Accredited.**

Site BEESLACK HIGH SCHOOL

Contract No. C7690

Client Johnson Poole & Bloomer Consultants

Hole ID S01

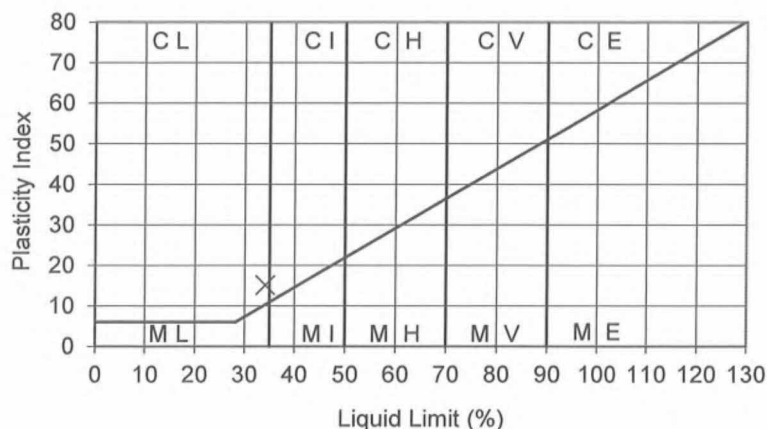
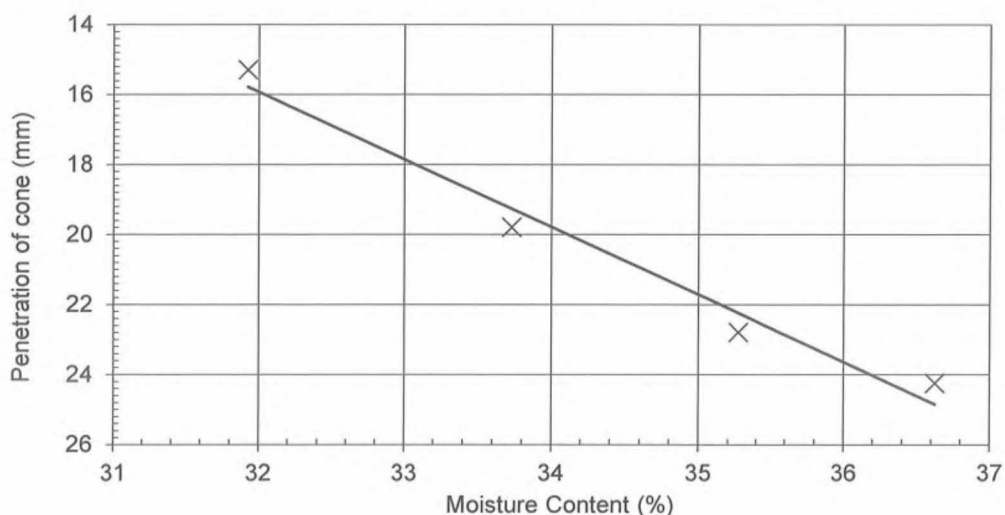
Engineer Johnson Poole & Bloomer Consultants

Depth (m) 2.70

Sample Type U

Non Engineering Description : Firm intact dark brown slightly gravelly slightly sandy CLAY.
Gravel is fine to coarse.

Preparation : Sample washed and air dried



Results :

As Received Moisture Content : (BS1377:Part 2:Clause 3:1990) 16 %
 Percentage retained on 425µm sieve : 30 %
 Liquid Limit : 34 %
 Plastic Limit : 19 %
 Plasticity Index : 15

Equivalent moisture content of material passing 425µm sieve : 23 %
 Liquidity Index : 0.27

Originator

Checked & Approved

SP

01/07/2022

**Liquid Limit (Four Point Cone Penetrometer Method)
Plastic Limit, Plasticity Index & Liquidity Index**

BS 1377:Part 2:Clause 4.3:1990

BS 1377:Part 2:Clause 5:1990



TERRA TEK
SITE INVESTIGATION AND LABORATORY SERVICES

Site BEESLACK HIGH SCHOOL

Contract No. C7690

Client Johnson Poole & Bloomer Consultants

Hole ID S02

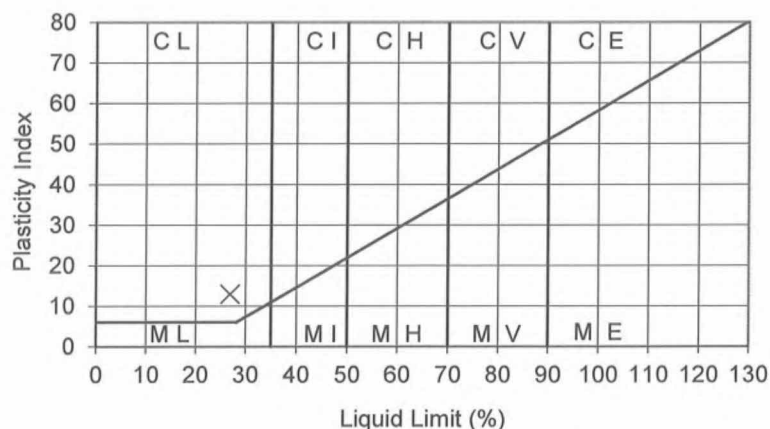
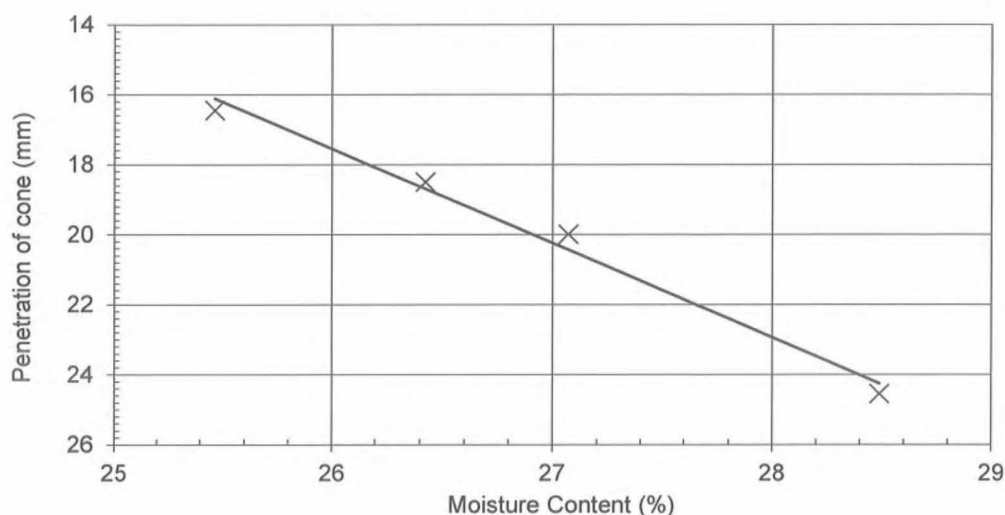
Engineer Johnson Poole & Bloomer Consultants

Depth (m) 2.20

Sample Type U

Non Engineering Description : Firm intact slightly gravelly slightly sandy CLAY. Gravel is fine to coarse.

Preparation : Sample washed and air dried



Results :

As Received Moisture Content : (BS1377:Part 2:Clause 3:1990)	13 %
Percentage retained on 425µm sieve :	32 %
Liquid Limit :	27 %
Plastic Limit :	14 %
Plasticity Index :	13
Equivalent moisture content of material passing 425µm sieve :	19 %
Liquidity Index :	0.38

Originator

Checked & Approved

SP

01/07/2022

**Liquid Limit (Four Point Cone Penetrometer Method)
Plastic Limit, Plasticity Index & Liquidity Index**

BS 1377:Part 2:Clause 4.3:1990

BS 1377:Part 2:Clause 5:1990



Sheet 1 of 1

TERRA TEK
SITE INVESTIGATION AND LABORATORY SERVICES

Site BEESLACK HIGH SCHOOL

Contract No. C7690

Client Johnson Poole & Bloomer Consultants

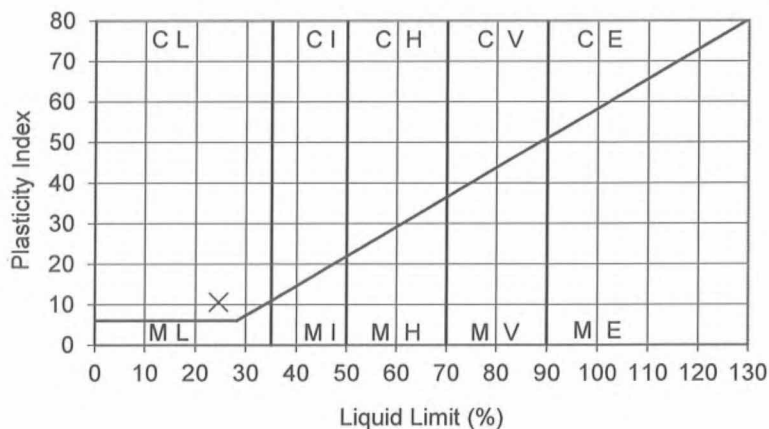
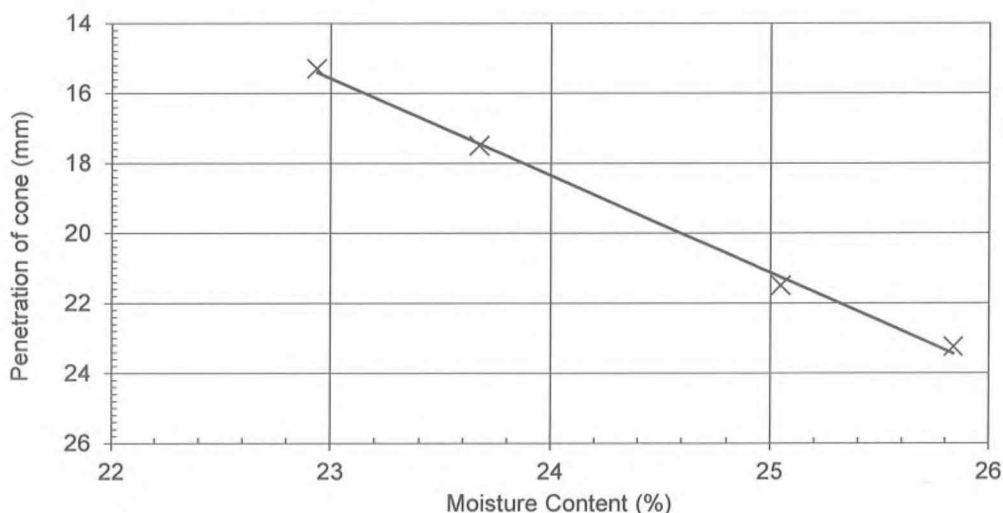
Hole ID S02

Engineer Johnson Poole & Bloomer Consultants

Depth (m) 3.20
Sample Type B

Non Engineering Description : Brown slightly gravelly slightly sandy CLAY. Gravel is fine to coarse.

Preparation : Sample washed and air dried



Results :

As Received Moisture Content : (BS1377:Part 2:Clause 3:1990) 14 %
 Percentage retained on 425µm sieve : 41 %
 Liquid Limit : 25 %
 Plastic Limit : 14 %
 Plasticity Index : 11

Equivalent moisture content of material passing 425µm sieve : 24 %
 Liquidity Index : 0.91

Originator

Checked & Approved

**Liquid Limit (Four Point Cone Penetrometer Method)
Plastic Limit, Plasticity Index & Liquidity Index**

BS 1377:Part 2:Clause 4.3:1990

BS 1377:Part 2:Clause 5:1990

TK

Sheet 1 of 1

Site BEESLACK HIGH SCHOOL

Client Johnson Poole & Bloomer Consultants

Engineer Johnson Poole & Bloomer Consultants

Contract No. C7690

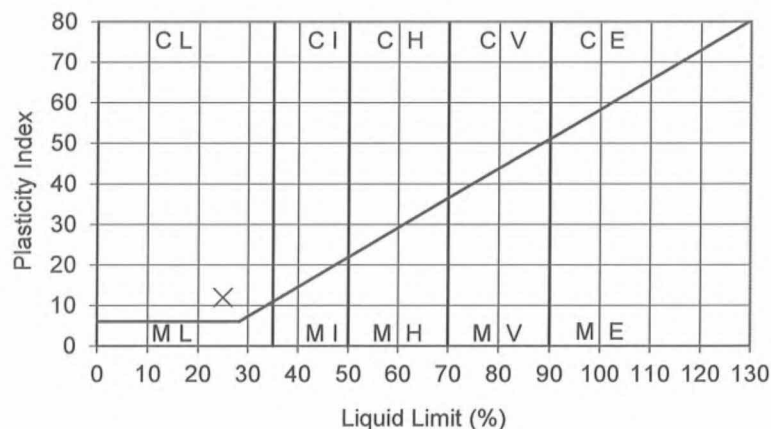
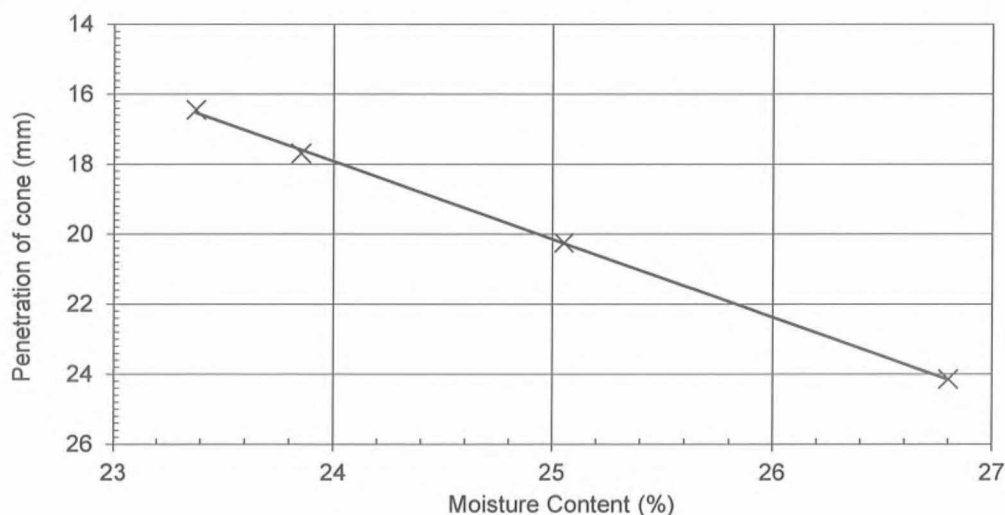
Hole ID S03

Depth (m) 4.20

Sample Type U

Non Engineering Description : Soft intact brown slightly gravelly slightly sandy CLAY. Gravel is fine to coarse.

Preparation : Sample washed and air dried



Results :

As Received Moisture Content : (BS1377:Part 2:Clause 3:1990)	14 %
Percentage retained on 425µm sieve :	39 %
Liquid Limit :	25 %
Plastic Limit :	13 %
Plasticity Index :	12
Equivalent moisture content of material passing 425µm sieve :	23 %
Liquidity Index :	0.83

Originator

Checked & Approved

SP

01/07/2022

**Liquid Limit (Four Point Cone Penetrometer Method)
Plastic Limit, Plasticity Index & Liquidity Index**

BS 1377:Part 2:Clause 4.3:1990

BS 1377:Part 2:Clause 5:1990



Sheet 1 of 1

TERRA TEK
SITE INVESTIGATION AND LABORATORY SERVICES

Site BEESLACK HIGH SCHOOL

Contract No. C7690

Client Johnson Poole & Bloomer Consultants

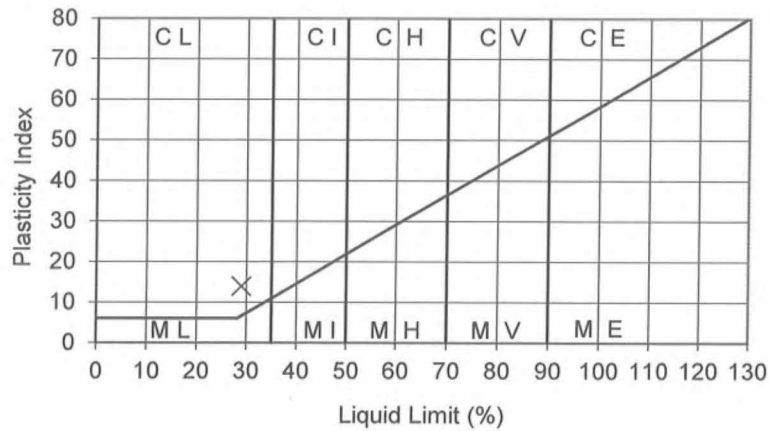
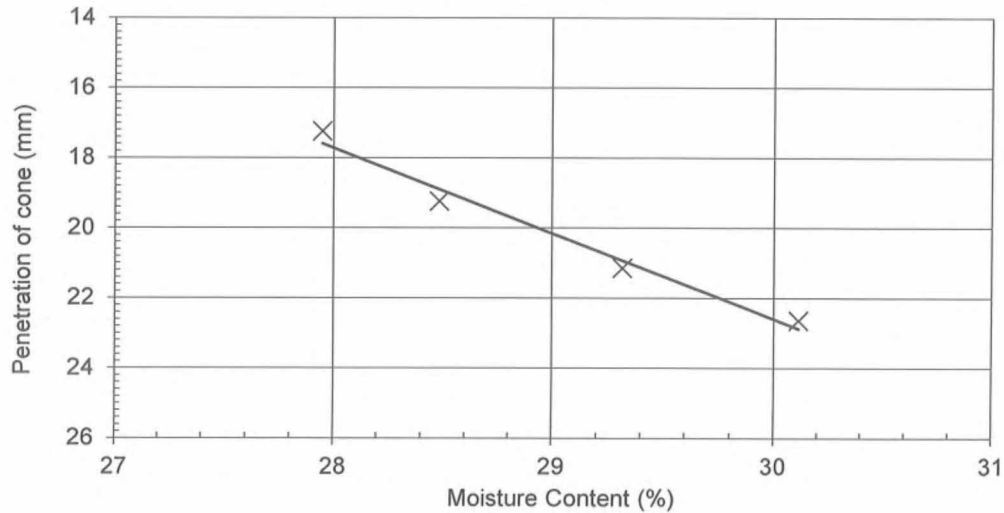
Hole ID S04

Engineer Johnson Poole & Bloomer Consultants

Depth (m) 1.20
Sample Type U

Non Engineering Description : Firm intact brown slightly gravelly slightly sandy CLAY. Gravel is fine to coarse.

Preparation : Sample washed and air dried



Results :

As Received Moisture Content : (BS1377:Part 2:Clause 3:1990) 15 %
 Percentage retained on 425µm sieve : 54 %
 Liquid Limit : 29 %
 Plastic Limit : 15 %
 Plasticity Index : 14

Equivalent moisture content of material passing 425µm sieve : 33 %
 Liquidity Index : 1.29

Originator

Checked & Approved

SP

01/07/2022

**Liquid Limit (Four Point Cone Penetrometer Method)
Plastic Limit, Plasticity Index & Liquidity Index**

BS 1377:Part 2:Clause 4.3:1990

BS 1377:Part 2:Clause 5:1990

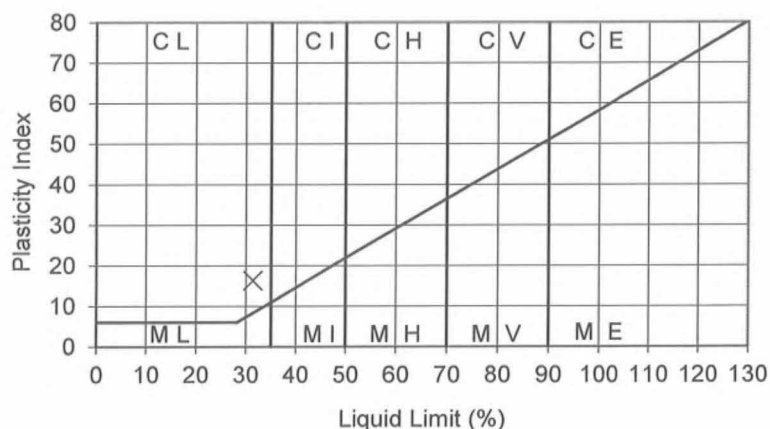
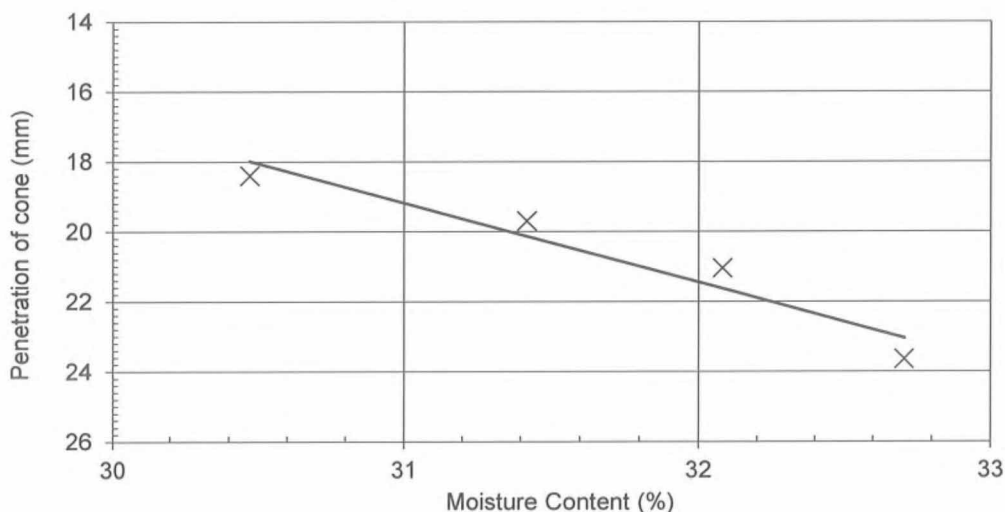




Site	BEESLACK HIGH SCHOOL	Contract No.	C7690
Client	Johnson Poole & Bloomer Consultants	Hole ID	S04
Engineer	Johnson Poole & Bloomer Consultants	Depth (m)	3.70
		Sample Type	U

Non Engineering Description : Very stiff intact slightly gravelly slightly sandy CLAY. Gravel is fine to coarse.

Preparation : Sample washed and air dried



Results :

As Received Moisture Content : (BS1377:Part 2:Clause 3:1990)	9.1 %
Percentage retained on 425µm sieve :	39 %
Liquid Limit :	31 %
Plastic Limit :	15 %
Plasticity Index :	16
Equivalent moisture content of material passing 425µm sieve :	15 %
Liquidity Index :	0.00

Originator	Checked & Approved	Liquid Limit (Four Point Cone Penetrometer Method) Plastic Limit, Plasticity Index & Liquidity Index BS 1377:Part 2:Clause 4.3:1990 BS 1377:Part 2:Clause 5:1990	
SP	01/07/2022		

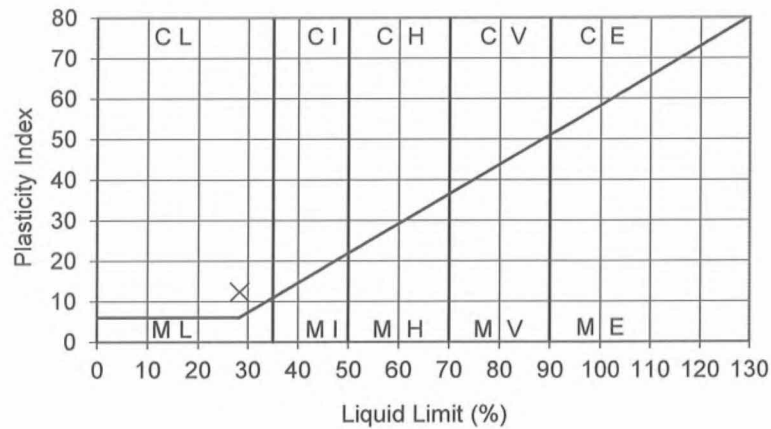
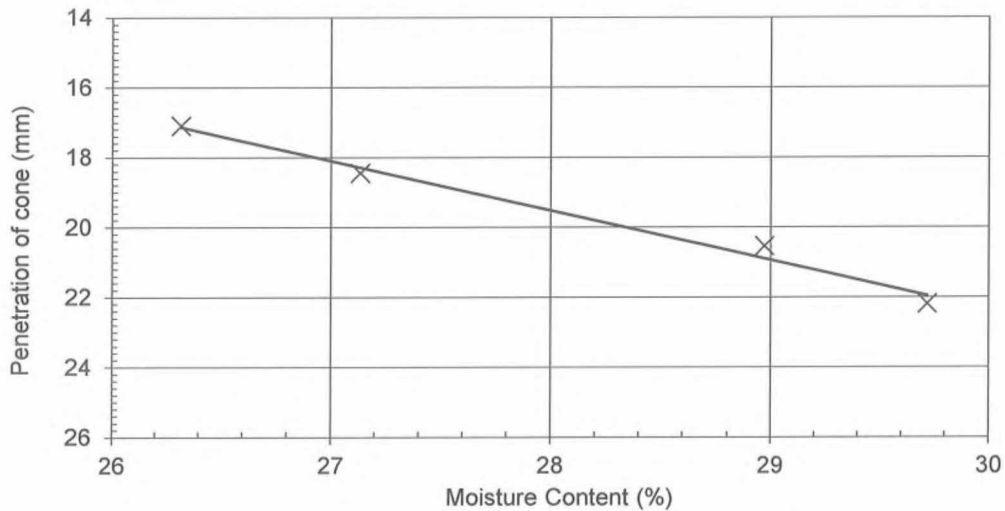
TERRA TEK
SITE INVESTIGATION AND LABORATORY SERVICES

Site BEESLACK HIGH SCHOOL
Client Johnson Poole & Bloomer Consultants
Engineer Johnson Poole & Bloomer Consultants

Contract No. **C7690**
Hole ID S05
Depth (m) 2.20
Sample Type U

Non Engineering Description : Soft intact brown slightly gravelly sandy CLAY. Gravel is fine to coarse.

Preparation : Sample washed and air dried



Results :

As Received Moisture Content : (BS1377:Part 2:Clause 3:1990) 14 %
 Percentage retained on 425µm sieve : 47 %
 Liquid Limit : 28 %
 Plastic Limit : 16 %
 Plasticity Index : 12

 Equivalent moisture content of material passing 425µm sieve : 27 %
 Liquidity Index : 0.92

Originator

Checked & Approved

SP

01/07/2022

Liquid Limit (Four Point Cone Penetrometer Method)
Plastic Limit, Plasticity Index & Liquidity Index
 BS 1377:Part 2:Clause 4.3:1990
 BS 1377:Part 2:Clause 5:1990





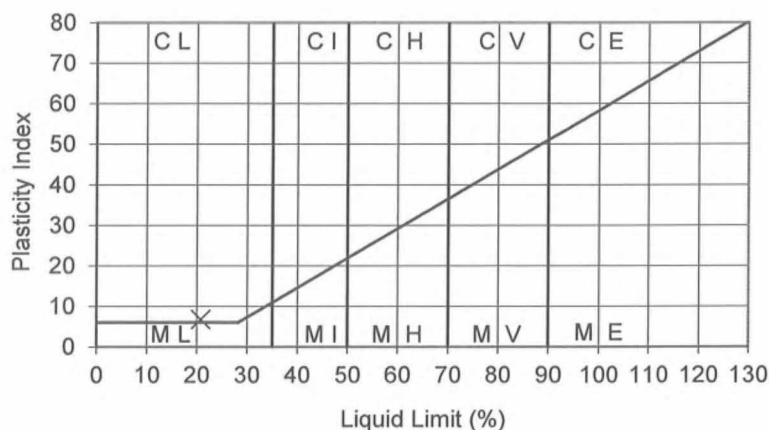
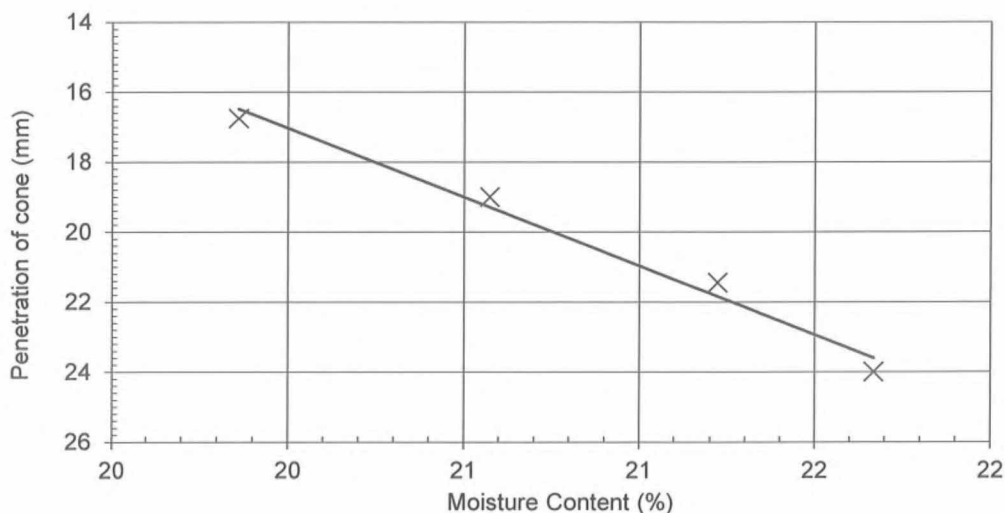
Site BEESLACK HIGH SCHOOL
Client Johnson Poole & Bloomer Consultants
Engineer Johnson Poole & Bloomer Consultants

Contract No. C7690

Hole ID S05
Depth (m) 4.20
Sample Type U

Non Engineering Description : Stiff intact brown clayey silty very gravelly SAND. Gravel is fine to coarse.

Preparation : Sample washed and air dried



Results :

As Received Moisture Content : (BS1377:Part 2:Clause 3:1990) 9.6 %
Percentage retained on 425µm sieve : 36 %
Liquid Limit : 21 %
Plastic Limit : 14 %
Plasticity Index : 7.0

Equivalent moisture content of material passing 425µm sieve : 15 %
Liquidity Index : 0.14

Originator

Checked & Approved

SP

01/07/2022

**Liquid Limit (Four Point Cone Penetrometer Method)
Plastic Limit, Plasticity Index & Liquidity Index**

BS 1377:Part 2:Clause 4.3:1990
BS 1377:Part 2:Clause 5:1990



Sheet 1 of 1

TERRA TEK <small>SITE INVESTIGATION AND LABORATORY SERVICES</small>	Site BEESLACK HIGH SCHOOL	Contract No. C7690
	Client Johnson Poole & Bloomer Consultants	Hole ID S06
	Engineer Johnson Poole & Bloomer Consultants	Depth (m) 3.20 Sample Type B

Non Engineering Description : Dark brown slightly gravelly sandy CLAY. Gravel is fine to coarse.

Preparation : Sample washed and air dried

Results :

As Received Moisture Content : (BS1377:Part 2:Clause 3:1990)	13 %
Percentage retained on 425µm sieve :	51 %
Liquid Limit :	23 %
Plastic Limit :	13 %
Plasticity Index :	10
Equivalent moisture content of material passing 425µm sieve :	26 %
Liquidity Index :	1.30

Originator	Checked & Approved	Liquid Limit (Four Point Cone Penetrometer Method) Plastic Limit, Plasticity Index & Liquidity Index BS 1377:Part 2:Clause 4.3:1990 BS 1377:Part 2:Clause 5:1990	 Sheet 1 of 1
SP	01/07/2022		

TERRA TEK
SITE INVESTIGATION AND LABORATORY SERVICES

Site BEESLACK HIGH SCHOOL

Contract No. C7690

Client Johnson Poole & Bloomer Consultants

Hole ID S07

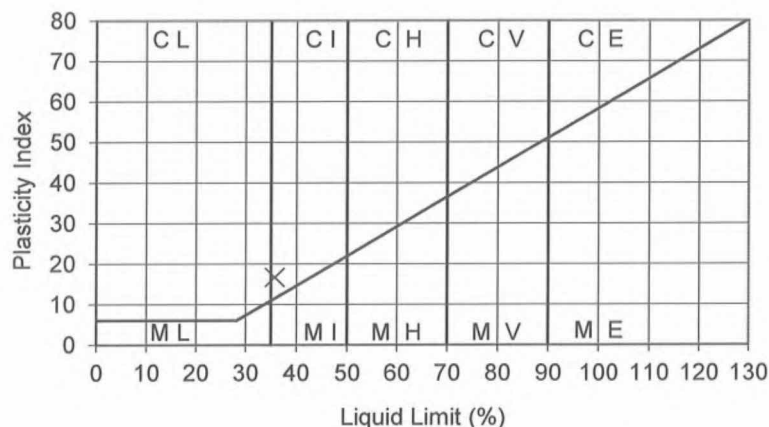
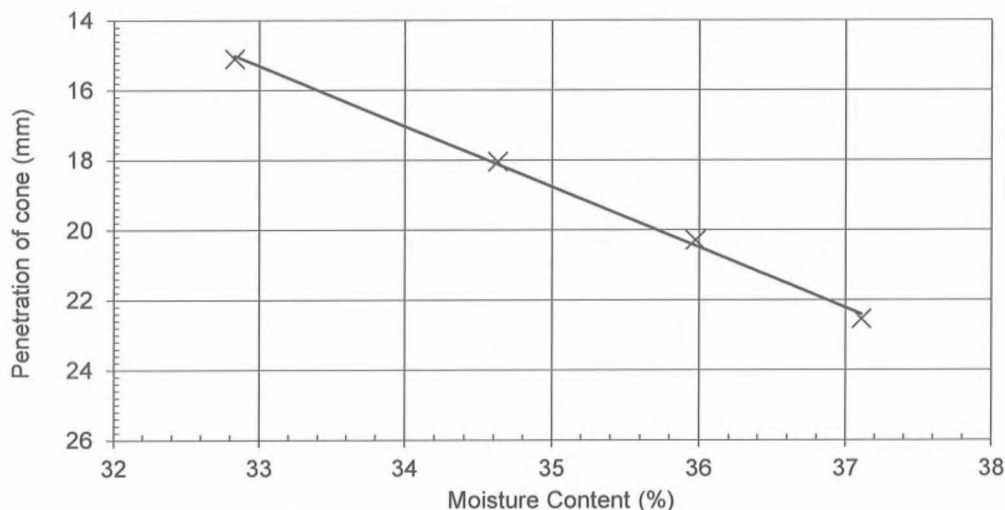
Engineer Johnson Poole & Bloomer Consultants

Depth (m) 1.20

Sample Type U

Non Engineering Description : Soft intact dark brown slightly gravelly slightly sandy CLAY.
Gravel is fine to coarse.

Preparation : Sample washed and air dried



Results :

As Received Moisture Content : (BS1377:Part 2:Clause 3:1990) 17 %
 Percentage retained on 425µm sieve : 37 %
 Liquid Limit : 36 %
 Plastic Limit : 19 %
 Plasticity Index : 17

Equivalent moisture content of material passing 425µm sieve : 27 %
 Liquidity Index : 0.47

Originator

Checked & Approved

**Liquid Limit (Four Point Cone Penetrometer Method)
Plastic Limit, Plasticity Index & Liquidity Index**

BS 1377:Part 2:Clause 4.3:1990

BS 1377:Part 2:Clause 5:1990

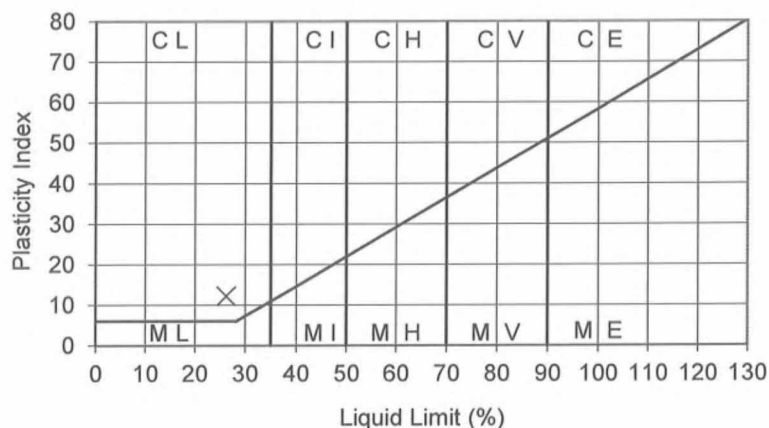
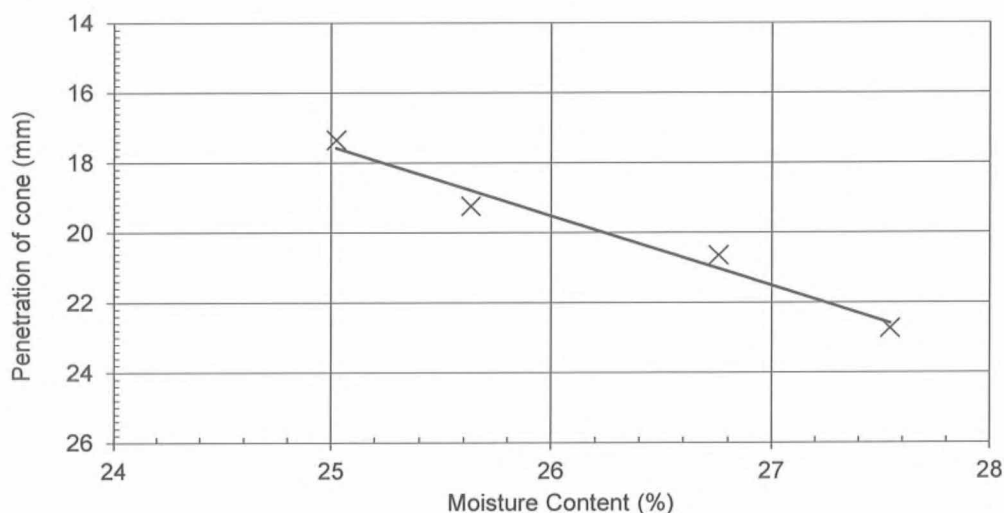
TK

Sheet 1 of 1

TERRA TEK <small>SITE INVESTIGATION AND LABORATORY SERVICES</small>	Site	BEESLACK HIGH SCHOOL	Contract No.	C7690
	Client	Johnson Poole & Bloomer Consultants	Hole ID	S07
	Engineer	Johnson Poole & Bloomer Consultants	Depth (m)	3.20
			Sample Type	U

Non Engineering Description : Soft intact brown slightly gravelly slightly sandy CLAY. Gravel is fine to medium.

Preparation : Sample washed and air dried



Results :

As Received Moisture Content : (BS1377:Part 2:Clause 3:1990)	16 %
Percentage retained on 425µm sieve :	28 %
Liquid Limit :	26 %
Plastic Limit :	14 %
Plasticity Index :	12
Equivalent moisture content of material passing 425µm sieve :	22 %
Liquidity Index :	0.67

Originator	Checked & Approved	Liquid Limit (Four Point Cone Penetrometer Method) Plastic Limit, Plasticity Index & Liquidity Index BS 1377:Part 2:Clause 4.3:1990 BS 1377:Part 2:Clause 5:1990	
SP	01/07/2022		

TERRA TEK
SITE INVESTIGATION AND LABORATORY SERVICES

Site BEESLACK HIGH SCHOOL

Contract No. C7690

Client Johnson Poole & Bloomer Consultants

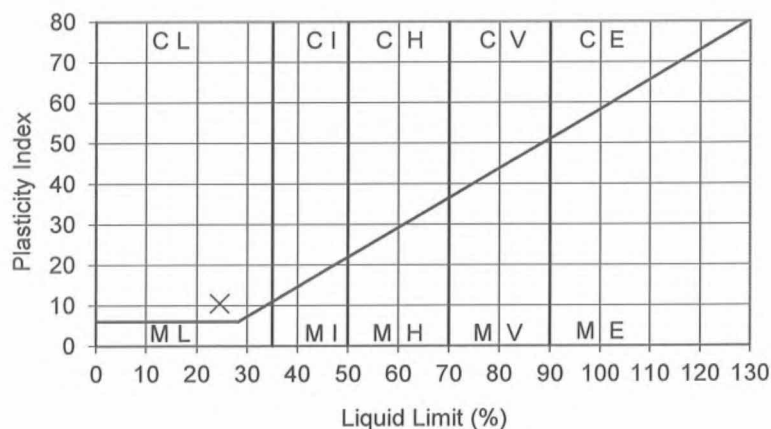
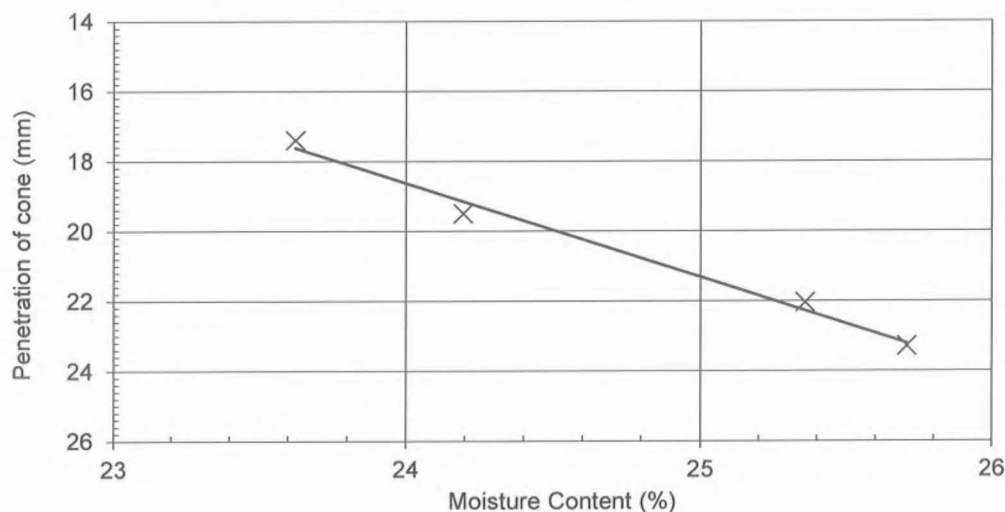
Hole ID S09

Engineer Johnson Poole & Bloomer Consultants

Depth (m) 3.20
Sample Type U

Non Engineering Description : Brown slightly gravelly sandy CLAY. Gravel is fine to coarse.

Preparation : Sample washed and air dried



Results :

As Received Moisture Content : (BS1377:Part 2:Clause 3:1990) 11 %
 Percentage retained on 425µm sieve : 52 %
 Liquid Limit : 25 %
 Plastic Limit : 14 %
 Plasticity Index : 11

Equivalent moisture content of material passing 425µm sieve : 23 %
 Liquidity Index : 0.82

Originator

Checked & Approved

**Liquid Limit (Four Point Cone Penetrometer Method)
Plastic Limit, Plasticity Index & Liquidity Index**

BS 1377:Part 2:Clause 4.3:1990

BS 1377:Part 2:Clause 5:1990



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TERRA TEK
SITE INVESTIGATION AND LABORATORY SERVICES

Site BEESLACK HIGH SCHOOL

Contract No. C7690

Client Johnson Poole & Bloomer Consultants

Hole ID S10

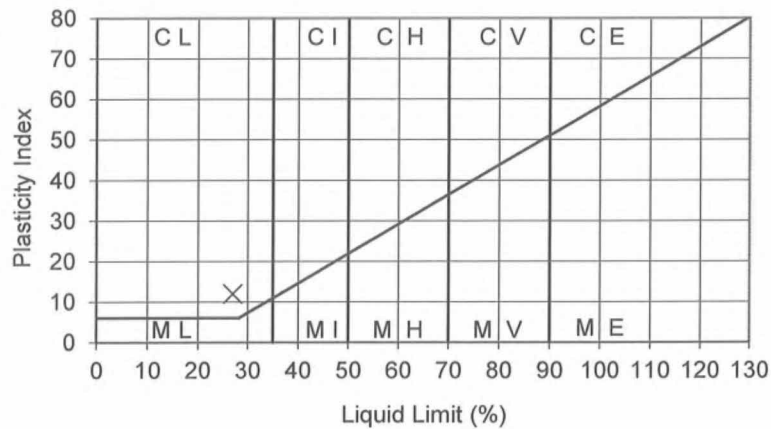
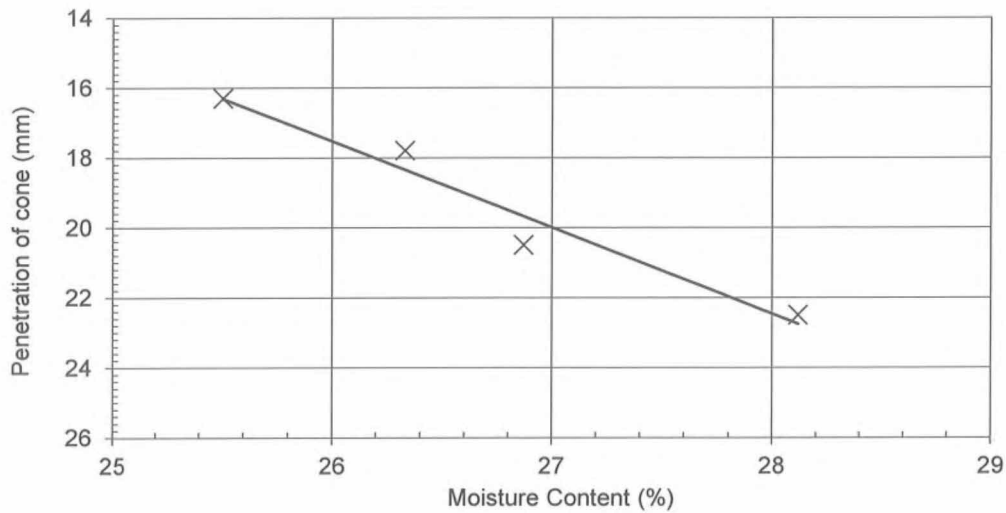
Engineer Johnson Poole & Bloomer Consultants

Depth (m) 2.20

Sample Type B

Non Engineering Description : Dark brown slightly gravelly slightly sandy CLAY. Gravel is fine to medium.

Preparation : Sample washed and air dried



Results :

As Received Moisture Content : (BS1377:Part 2:Clause 3:1990) 13 %
 Percentage retained on 425µm sieve : 29 %
 Liquid Limit : 27 %
 Plastic Limit : 15 %
 Plasticity Index : 12

Equivalent moisture content of material passing 425µm sieve : 18 %
 Liquidity Index : 0.25

Originator

Checked & Approved

SP

**Liquid Limit (Four Point Cone Penetrometer Method)
 Plastic Limit, Plasticity Index & Liquidity Index**

BS 1377:Part 2:Clause 4.3:1990

BS 1377:Part 2:Clause 5:1990



Sheet 1 of 1

TERRA TEK
SITE INVESTIGATION AND LABORATORY SERVICES

Site BEESLACK HIGH SCHOOL

Contract No. C7690

Client Johnson Poole & Bloomer Consultants

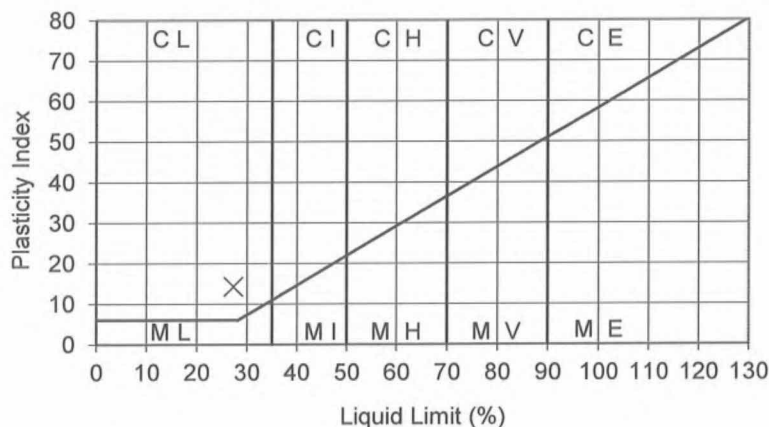
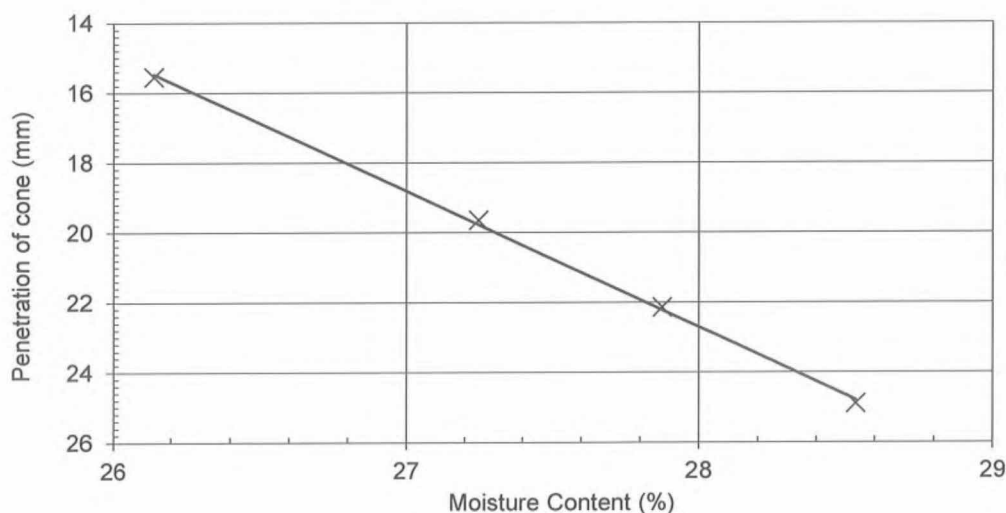
Hole ID S12

Engineer Johnson Poole & Bloomer Consultants

Depth (m) 1.20
Sample Type U

Non Engineering Description : Firm intact dark brown slightly gravelly slightly sandy CLAY.
Gravel is fine to coarse.

Preparation : Sample washed and air dried



Results :

As Received Moisture Content : (BS1377:Part 2:Clause 3:1990) 16 %
 Percentage retained on 425µm sieve : 30 %
 Liquid Limit : 27 %
 Plastic Limit : 13 %
 Plasticity Index : 14
 Equivalent moisture content of material passing 425µm sieve : 23 %
 Liquidity Index : 0.71

Originator

Checked & Approved

SP

01/07/2022

**Liquid Limit (Four Point Cone Penetrometer Method)
Plastic Limit, Plasticity Index & Liquidity Index**

BS 1377:Part 2:Clause 4.3:1990

BS 1377:Part 2:Clause 5:1990



Sheet 1 of 1

TERRA TEK
SITE INVESTIGATION AND LABORATORY SERVICES

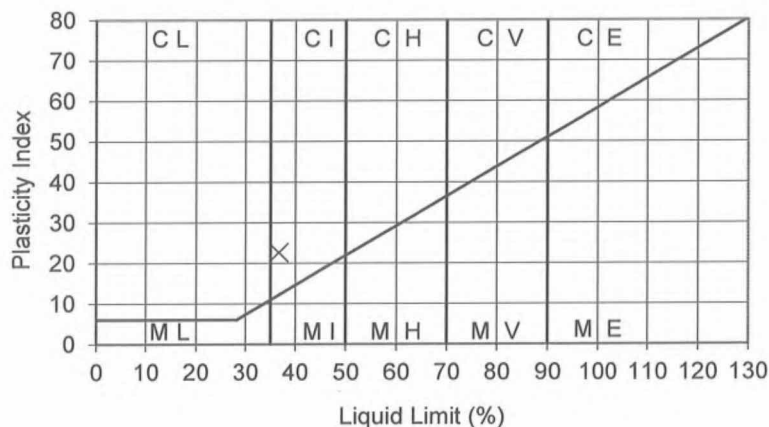
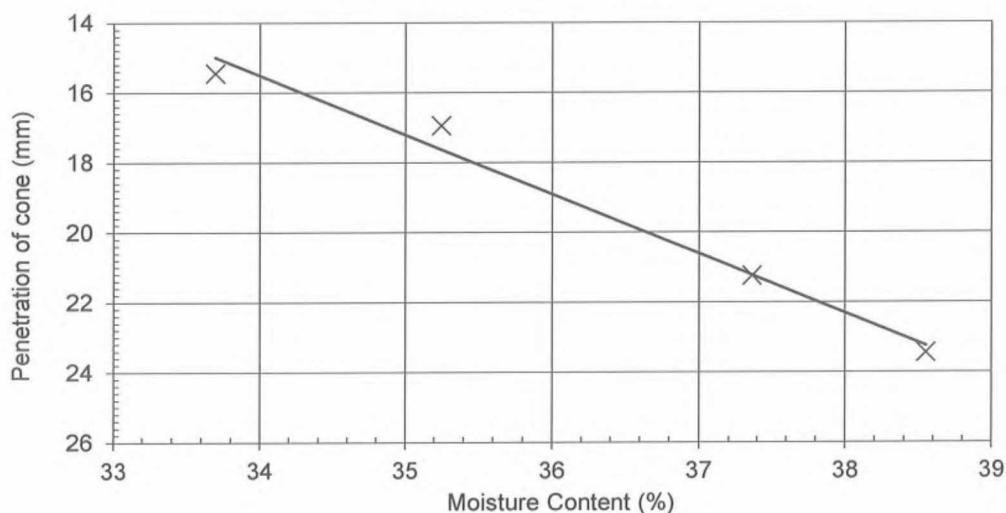
Site BEESLACK HIGH SCHOOL
Client Johnson Poole & Bloomer Consultants
Engineer Johnson Poole & Bloomer Consultants

Contract No. C7690

Hole ID S12
Depth (m) 3.20
Sample Type U

Non Engineering Description : Firm intact brown slightly gravelly slightly sandy CLAY. Gravel is fine to medium.

Preparation : Sample washed and air dried



Results :

As Received Moisture Content : (BS1377:Part 2:Clause 3:1990) 17 %
 Percentage retained on 425µm sieve : 19 %
 Liquid Limit : 37 %
 Plastic Limit : 14 %
 Plasticity Index : 23

Equivalent moisture content of material passing 425µm sieve : 21 %
 Liquidity Index : 0.30

Originator

Checked & Approved

**Liquid Limit (Four Point Cone Penetrometer Method)
Plastic Limit, Plasticity Index & Liquidity Index**

BS 1377:Part 2:Clause 4.3:1990
BS 1377:Part 2:Clause 5:1990

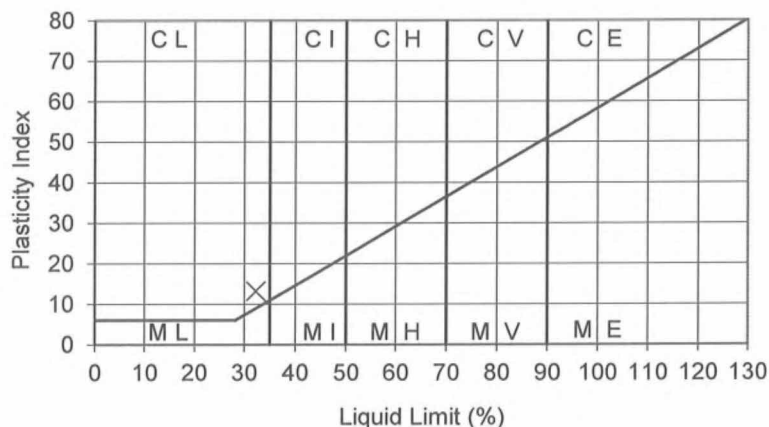
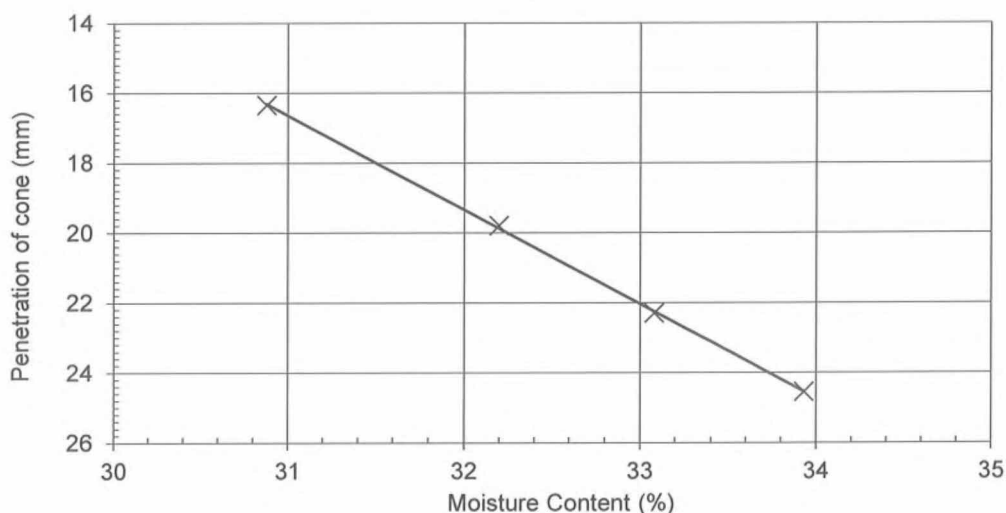
TTK

Sheet 1 of 1

TERRA TEK <small>SITE INVESTIGATION AND LABORATORY SERVICES</small>	Site	BEESLACK HIGH SCHOOL	Contract No.	C7690
	Client	Johnson Poole & Bloomer Consultants	Hole ID	S13
	Engineer	Johnson Poole & Bloomer Consultants	Depth (m)	1.20
			Sample Type	U

Non Engineering Description : Stiff intact dark brown slightly gravelly sandy CLAY. Gravel is fine to coarse.

Preparation : Sample washed and air dried



Results :

As Received Moisture Content : (BS1377:Part 2:Clause 3:1990)	15 %
Percentage retained on 425µm sieve :	22 %
Liquid Limit :	32 %
Plastic Limit :	19 %
Plasticity Index :	13
Equivalent moisture content of material passing 425µm sieve :	19 %
Liquidity Index :	0.00

Originator	Checked & Approved	Liquid Limit (Four Point Cone Penetrometer Method) Plastic Limit, Plasticity Index & Liquidity Index BS 1377:Part 2:Clause 4.3:1990 BS 1377:Part 2:Clause 5:1990	
RN	01/07/2022		

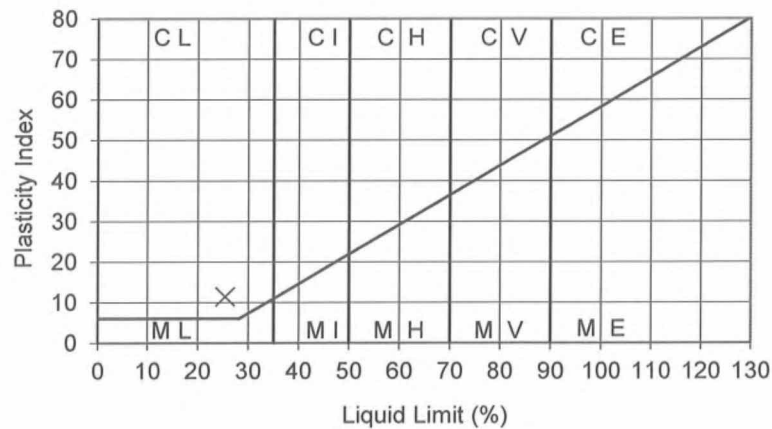
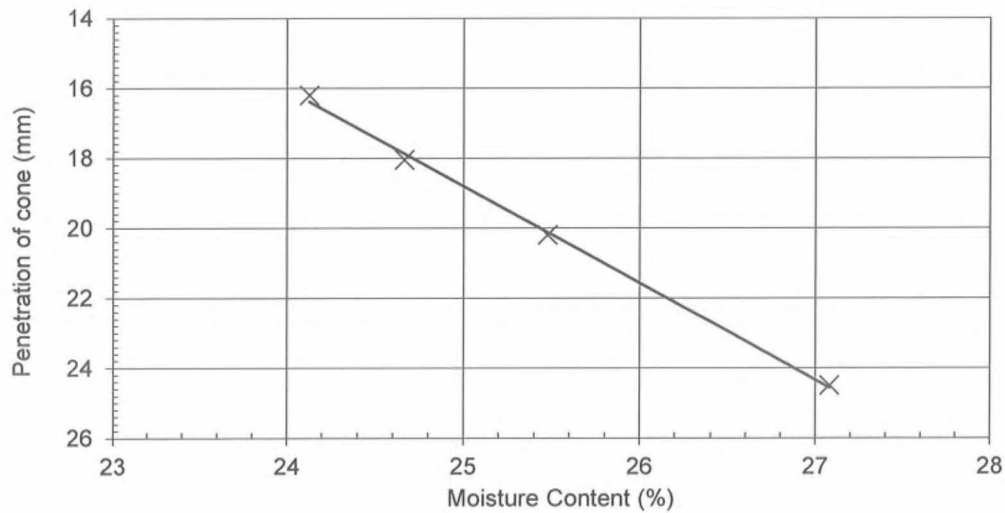
TERRA TEK
SITE INVESTIGATION AND LABORATORY SERVICES

Site BEESLACK HIGH SCHOOL
Client Johnson Poole & Bloomer Consultants
Engineer Johnson Poole & Bloomer Consultants

Contract No. C7690
Hole ID S14
Depth (m) 2.20
Sample Type B

Non Engineering Description : Brown slightly gravelly sandy CLAY. Gravel is fine to coarse.

Preparation : Sample washed and air dried



Results :

As Received Moisture Content : (BS1377:Part 2:Clause 3:1990) 12 %
Percentage retained on 425µm sieve : 52 %
Liquid Limit : 25 %
Plastic Limit : 14 %
Plasticity Index : 11

Equivalent moisture content of material passing 425µm sieve : 25 %
Liquidity Index : 1.00

Originator

Checked & Approved

RN

01/07/2022

Liquid Limit (Four Point Cone Penetrometer Method)
Plastic Limit, Plasticity Index & Liquidity Index
BS 1377:Part 2:Clause 4.3:1990
BS 1377:Part 2:Clause 5:1990



TERRA TEK
SITE INVESTIGATION AND LABORATORY SERVICES

Site BEESLACK HIGH SCHOOL

Contract No. C7690

Client Johnson Poole & Bloomer Consultants

Hole ID S15

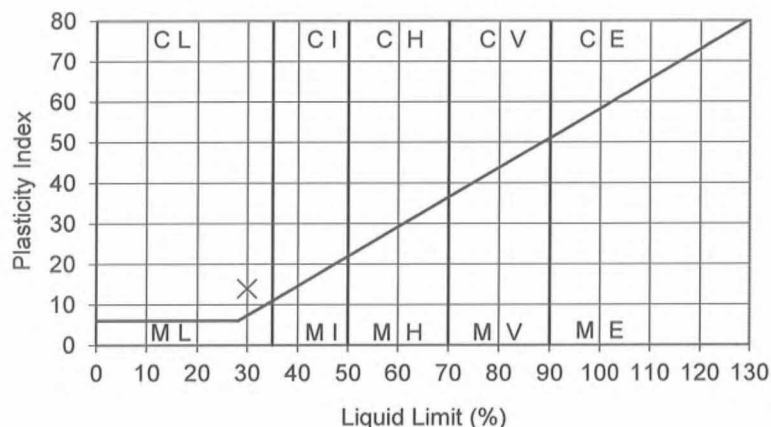
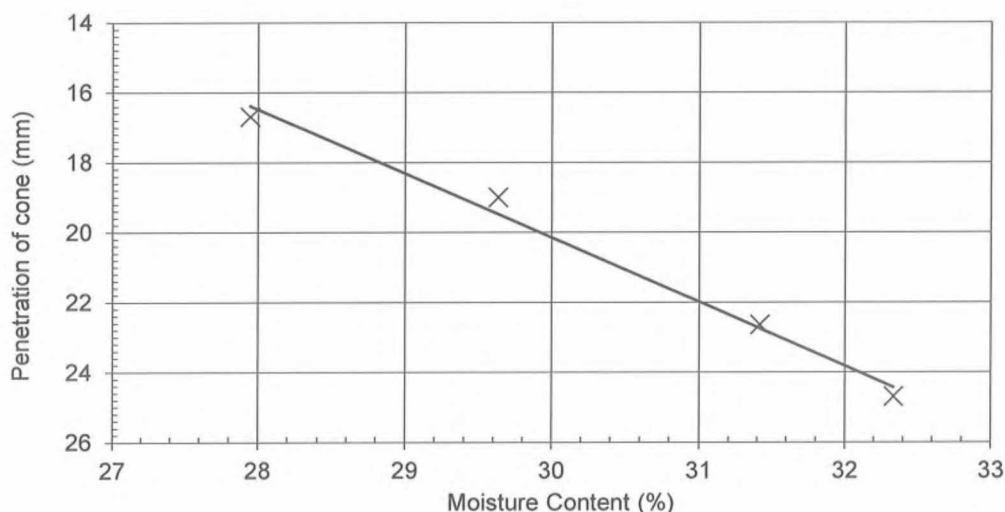
Engineer Johnson Poole & Bloomer Consultants

Depth (m) 3.00

Sample Type U

Non Engineering Description : Firm intact brown slightly gravelly sandy CLAY. Gravel is fine to medium.

Preparation : Sample washed and air dried



Results :

As Received Moisture Content : (BS1377:Part 2:Clause 3:1990)	15 %
Percentage retained on 425µm sieve :	27 %
Liquid Limit :	30 %
Plastic Limit :	16 %
Plasticity Index :	14
Equivalent moisture content of material passing 425µm sieve :	21 %
Liquidity Index :	0.36

Originator

Checked & Approved

**Liquid Limit (Four Point Cone Penetrometer Method)
Plastic Limit, Plasticity Index & Liquidity Index**

BS 1377:Part 2:Clause 4.3:1990

BS 1377:Part 2:Clause 5:1990

RN

01/07/2022



Sheet 1 of 1

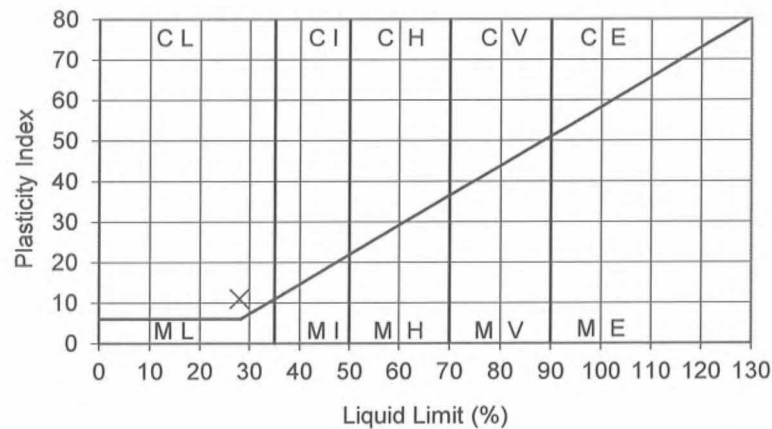
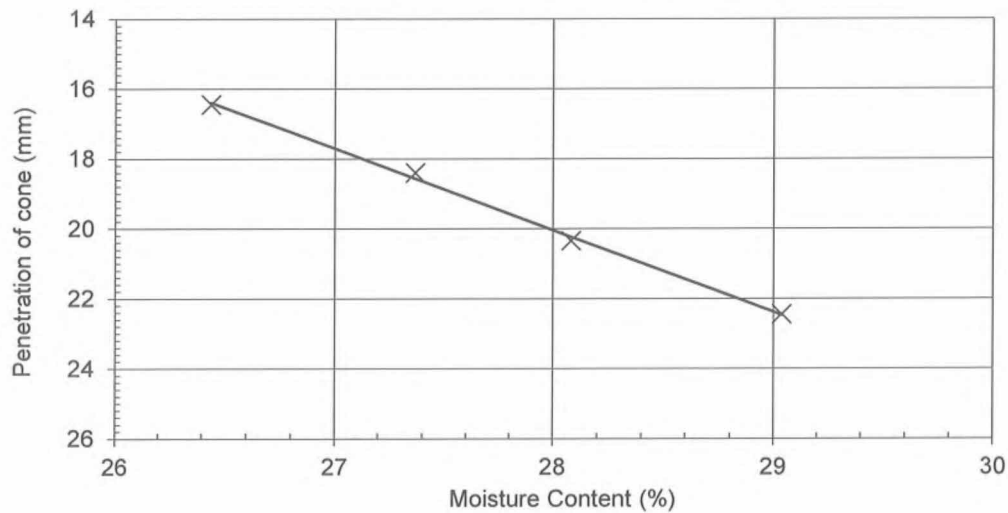
Site BEESLACK HIGH SCHOOL
Client Johnson Poole & Bloomer Consultants
Engineer Johnson Poole & Bloomer Consultants

Contract No. C7690

Hole ID S16
Depth (m) 1.20
Sample Type U

Non Engineering Description : Firm intact brown slightly gravelly slightly sandy CLAY. Gravel is fine to medium.

Preparation : Sample washed and air dried



Results :

As Received Moisture Content : (BS1377:Part 2:Clause 3:1990) 16 %
Percentage retained on 425µm sieve : 15 %
Liquid Limit : 28 %
Plastic Limit : 17 %
Plasticity Index : 11

Equivalent moisture content of material passing 425µm sieve : 19 %
Liquidity Index : 0.18

Originator

Checked & Approved

RN

01/07/2022

**Liquid Limit (Four Point Cone Penetrometer Method)
Plastic Limit, Plasticity Index & Liquidity Index**

BS 1377:Part 2:Clause 4.3:1990
BS 1377:Part 2:Clause 5:1990





Site	BEESLACK HIGH SCHOOL	Contract No	C7690
Client	Johnson Poole & Bloomer Consultants	Hole	S01
Engineer	Johnson Poole & Bloomer Consultants	Depth (m)	1.20
		Sample Type	B

Particle Size	% Passing
125.0 mm	100
90.0 mm	100
75.0 mm	100
63.0 mm	100
50.0 mm	100
37.5 mm	97
28.0 mm	93
20.0 mm	86
14.0 mm	76
10.0 mm	65
6.30 mm	54
5.00 mm	50
3.35 mm	46
2.00 mm	40
1.18 mm	35
630 µm	30
425 µm	25
300 µm	20
200 µm	13
150 µm	10
63 µm	6
20 µm	5
6 µm	3
2 µm	2

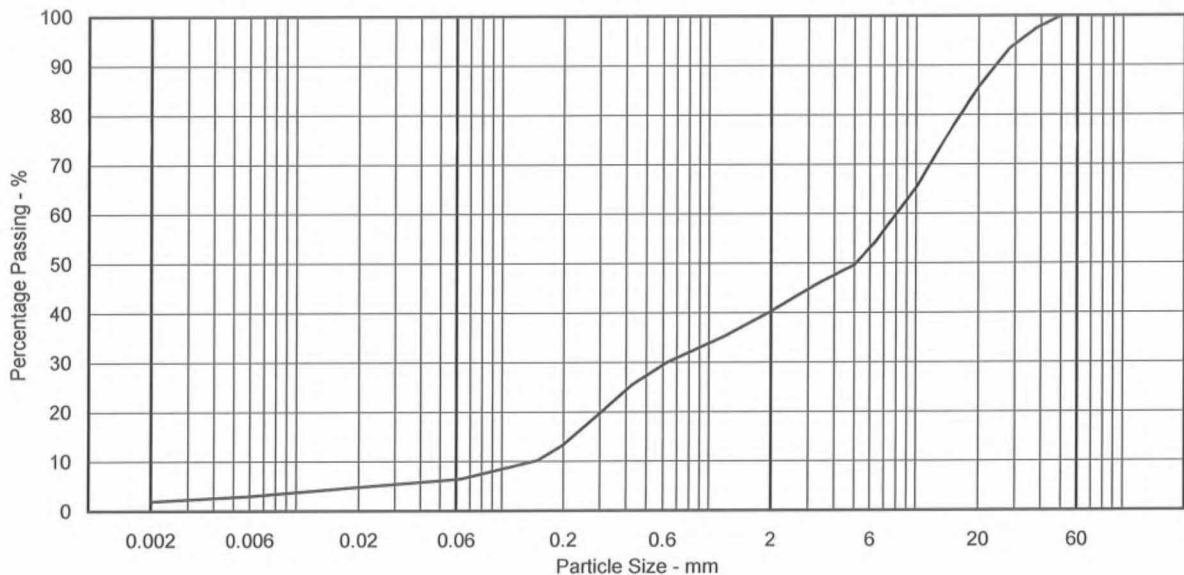
Non Engineering Description
Brown slightly clayey slightly silty very sandy fine to coarse GRAVEL.

Sample Proportions - %	
Cobbles	0.0
Gravel	59.7
Sand	33.9
Silt	4.4
Clay	2.0

Particle Diameter - mm	
D100	50
D60	8.0
D10	0.14
Uniformity Coefficient (SHW series 600, Table 6/1, footnote 5)	57.1

Notes
Sedimentation sample not pre-treated

Clay	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	Cobbles
	Silt			Sand			Gravel			



Originator	Checked & Approved	PARTICLE SIZE DISTRIBUTION BS EN ISO 17892-4 2016 Clause 5.2 - Sieving Method BS EN ISO 17892-4 2016 Clause 5.4 - Pipette Method		Sheet 1 of 1
SP	01/07/2022			



SITE INVESTIGATION AND LABORATORY SERVICES

Site	BEESLACK HIGH SCHOOL	Contract No	C7690
Client	Johnson Poole & Bloomer Consultants	Hole	S05
Engineer	Johnson Poole & Bloomer Consultants	Depth (m)	4.20
		Sample Type	U

Particle Size	% Passing
125.0 mm	100
90.0 mm	100
75.0 mm	100
63.0 mm	100
50.0 mm	100
37.5 mm	100
28.0 mm	95
20.0 mm	92
14.0 mm	85
10.0 mm	81
6.30 mm	76
5.00 mm	74
3.35 mm	73
2.00 mm	70
1.18 mm	68
630 µm	66
425 µm	64
300 µm	60
200 µm	52
150 µm	44
63 µm	30
20 µm	20
6 µm	13
2 µm	8

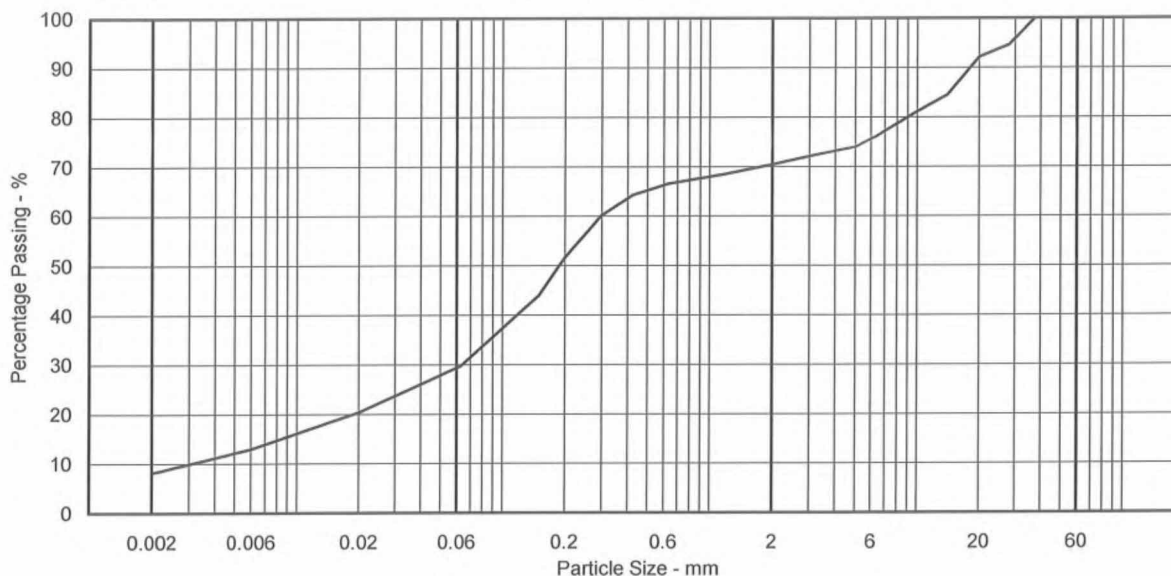
Non Engineering Description
Stiff intact brown clayey silty very gravelly SAND. Gravel is fine to coarse.

Sample Proportions - %	
Cobbles	0.0
Gravel	29.6
Sand	41.3
Silt	21.0
Clay	8.1

Particle Diameter - mm	
D100	38
D60	0.30
D10	0.0031
Uniformity Coefficient (SHW series 600, Table 6/1, footnote 5)	96.8

Notes
Sedimentation sample not pre-treated

Clay	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	Cobbles
	Silt			Sand			Gravel			



Originator	Checked & Approved	PARTICLE SIZE DISTRIBUTION BS EN ISO 17892-4 2016 Clause 5.2 - Sieving Method BS EN ISO 17892-4 2016 Clause 5.4 - Pipette Method	
SP	01/07/2022		

TERRA TEK <small>SITE INVESTIGATION AND LABORATORY SERVICES</small>	Site	BEESLACK HIGH SCHOOL	Contract No	C7690
	Client	Johnson Poole & Bloomer Consultants	Hole	S08
	Engineer	Johnson Poole & Bloomer Consultants	Depth (m)	1.20
			Sample Type	B

Particle Size	% Passing
125.0 mm	100
90.0 mm	100
75.0 mm	100
63.0 mm	100
50.0 mm	100
37.5 mm	100
28.0 mm	98
20.0 mm	92
14.0 mm	83
10.0 mm	74
6.30 mm	63
5.00 mm	59
3.35 mm	53
2.00 mm	47
1.18 mm	42
630 µm	37
425 µm	31
300 µm	23
200 µm	14
150 µm	9
63 µm	5
20 µm	4
6 µm	2
2 µm	1

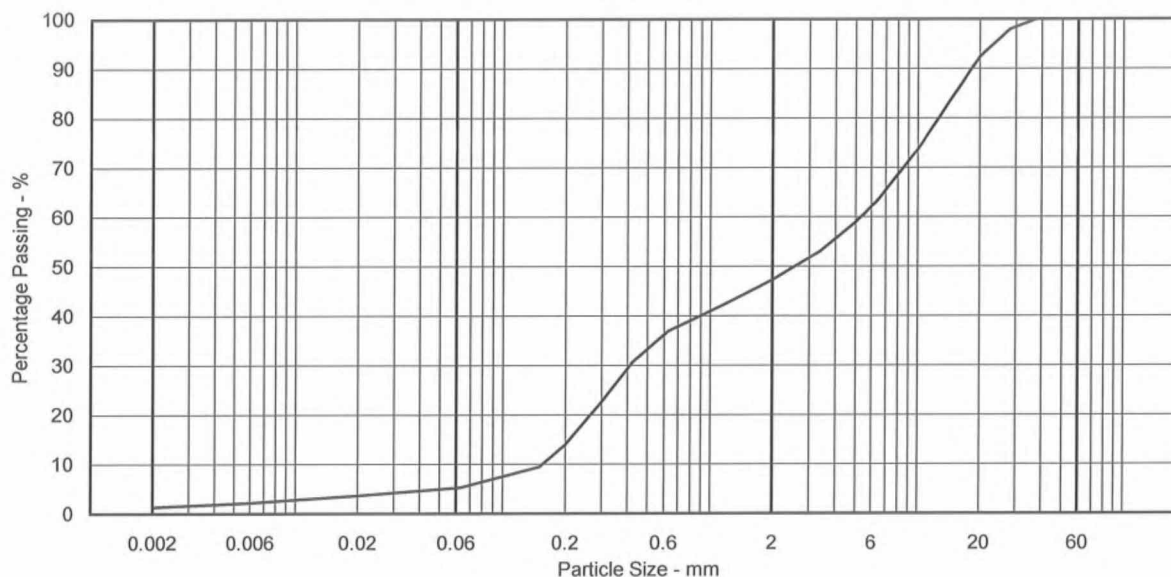
Non Engineering Description
Brown slightly clayey slightly silty very sandy fine to coarse GRAVEL.

Sample Proportions - %	
Cobbles	0.0
Gravel	52.8
Sand	42.1
Silt	3.9
Clay	1.3

Particle Diameter - mm	
D100	38
D60	5.3
D10	0.16
Uniformity Coefficient <small>(SHW series 600, Table 6/1, footnote 5)</small>	33.1

Notes
Sedimentation sample not pre-treated

Clay	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	Cobbles
	Silt			Sand			Gravel			



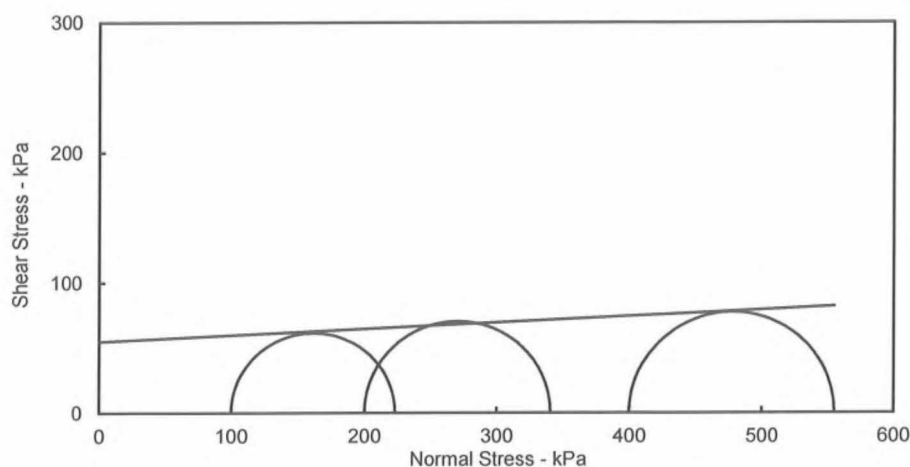
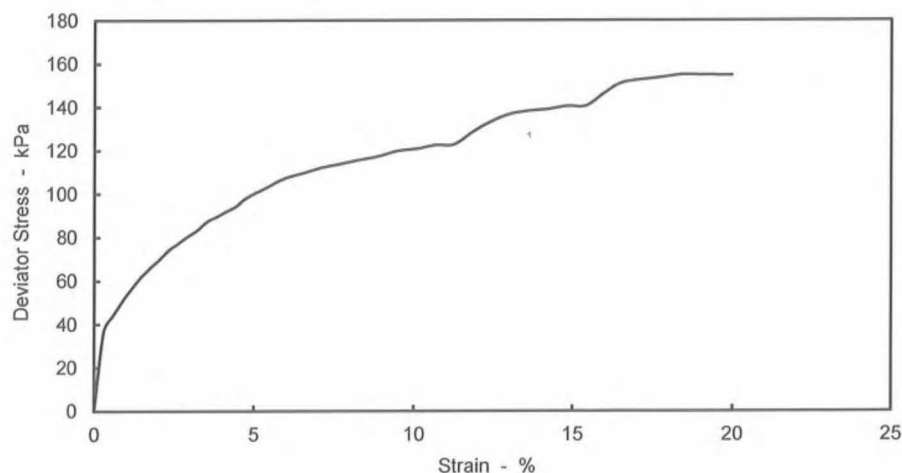
Originator	Checked & Approved	PARTICLE SIZE DISTRIBUTION BS EN ISO 17892-4 2016 Clause 5.2 - Sieving Method BS EN ISO 17892-4 2016 Clause 5.4 - Pipette Method	
SP	01/07/2022		

Sheet 1 of 1

Comments
Undisturbed specimen taken 300mm below top of tube

Shear Strength Parameters

C	55	kPa
Phi	2.8	°



Originator	Checked & Approved	UNCONSOLIDATED UNDRAINED MULTISTAGE TRIAXIAL COMPRESSION BS 1377 : Part 7 : 1990 Clause 9
SP	 01/07/2022	



TK

TERRA TEK

SITE INVESTIGATION AND LABORATORY SERVICES

Site BEESLACK HIGH SCHOOL

Client Johnson Poole & Bloomer Consultants

Engineer Johnson Poole & Bloomer Consultants

Contract No. **C7690**

Hole S03

Depth (m) 4.20

Sample Type U

Sample Details

Sample Condition	Undisturbed
Height mm	135.3
Diameter mm	71.9
Moisture Content %	14
Bulk Density Mg/m ³	2.23
Dry Density Mg/m ³	1.96

Comments

Undisturbed specimen taken 400mm below top of tube

Test Details

	Stage	1	2	3
Membrane Thickness mm		0.20	0.20	0.20
Membrane Correction kPa		0.68	0.85	1.06
Rate of Axial Displacement %/min		1.12	1.12	1.12
Cell Pressure kPa		100	200	400
Strain at Failure %		11.1	14.8	20.0
Maximum Deviator Stress kPa		73	81	90
Shear Strength kPa		37	41	45
Mode of Failure		Compound		

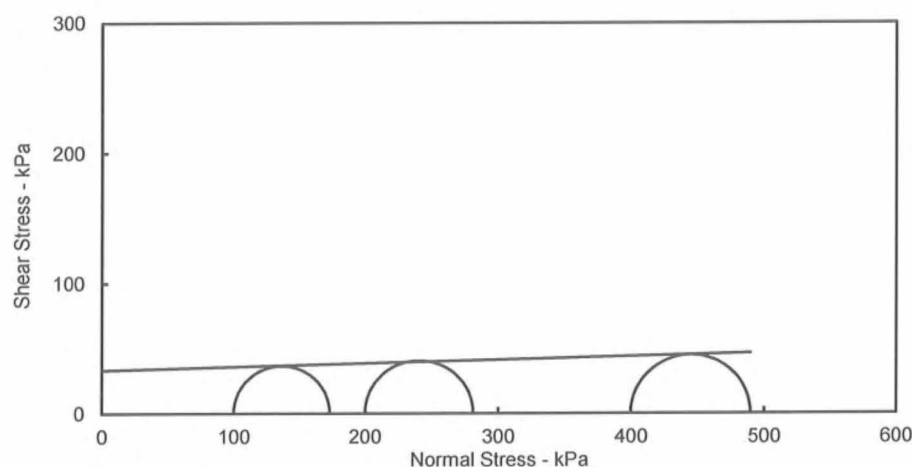
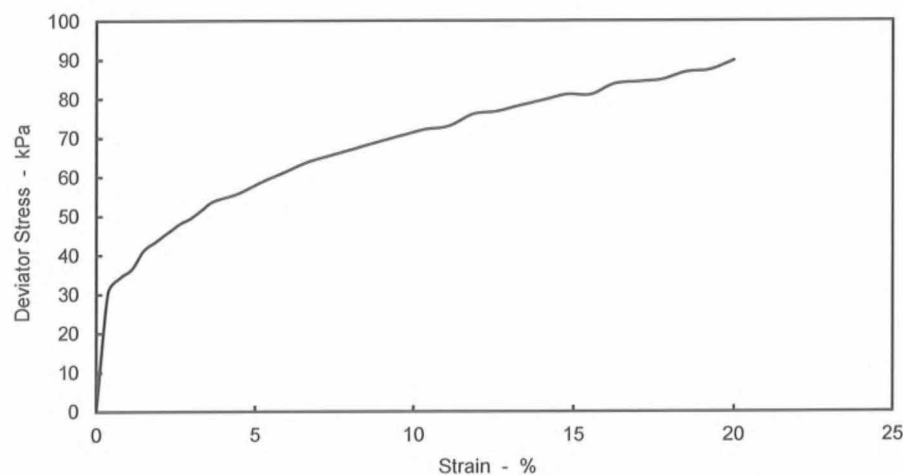
Non Engineering Description

Soft intact brown slightly gravelly slightly sandy CLAY. Gravel is fine to coarse.

Shear Strength Parameters

C 33 kPa

Phi 1.5 °



Originator

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01/07/2022

UNCONSOLIDATED UNDRAINED MULTISTAGE TRIAXIAL COMPRESSION

BS 1377 : Part 7 : 1990 Clause 9



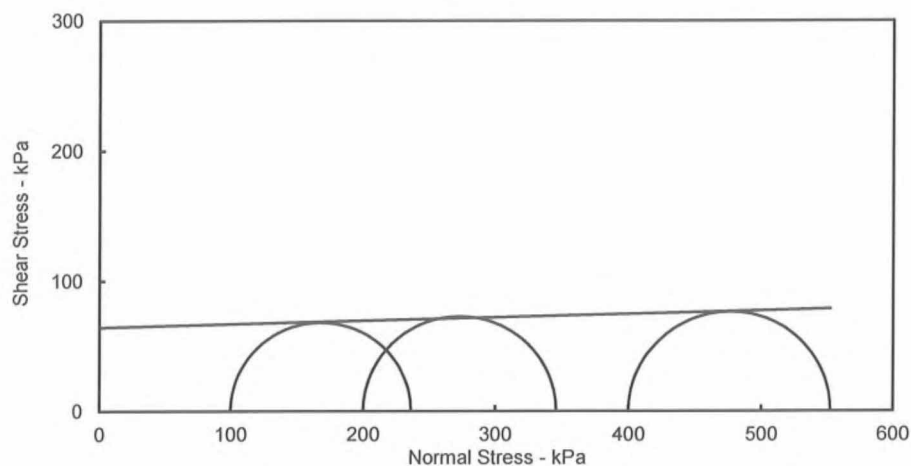
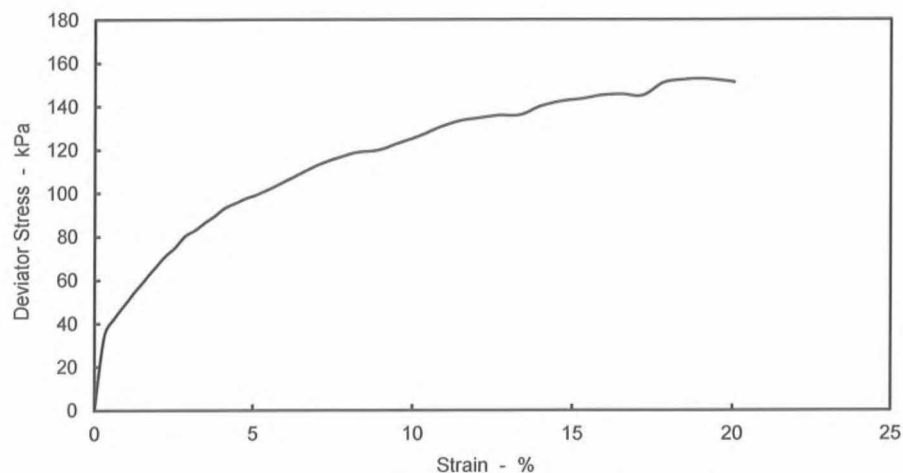
Site	BEESLACK HIGH SCHOOL	Contract No.	C7690
Client	Johnson Poole & Bloomer Consultants	Hole	S04
Engineer	Johnson Poole & Bloomer Consultants	Depth (m)	1.20
		Sample Type	U

Sample Details		Undisturbed			
Sample Condition					
Height	mm				157.3
Diameter	mm				81.8
Moisture Content	%				15
Bulk Density	Mg/m³				2.14
Dry Density	Mg/m³				1.87
Test Details	Stage	1	2	3	
Membrane Thickness	mm	0.20	0.20	0.20	
Membrane Correction	kPa	0.69	0.81	0.90	
Rate of Axial Displacement	%/min	0.97	0.97	0.97	
Cell Pressure	kPa	100	200	400	
Strain at Failure	%	13.4	16.5	19.1	
Maximum Deviator Stress	kPa	136	146	153	
Shear Strength	kPa	68	73	76	
Mode of Failure		Compound			
Non Engineering Description		Firm intact brown slightly gravelly slightly sandy CLAY. Gravel is fine to coarse.			

Comments
Undisturbed specimen taken 200mm below top of tube

Shear Strength Parameters

C 65 kPa
Phi 1.5 °



Originator

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01/07/2022

UNCONSOLIDATED UNDRAINED MULTISTAGE TRIAXIAL COMPRESSION
BS 1377 : Part 7 : 1990 Clause 9

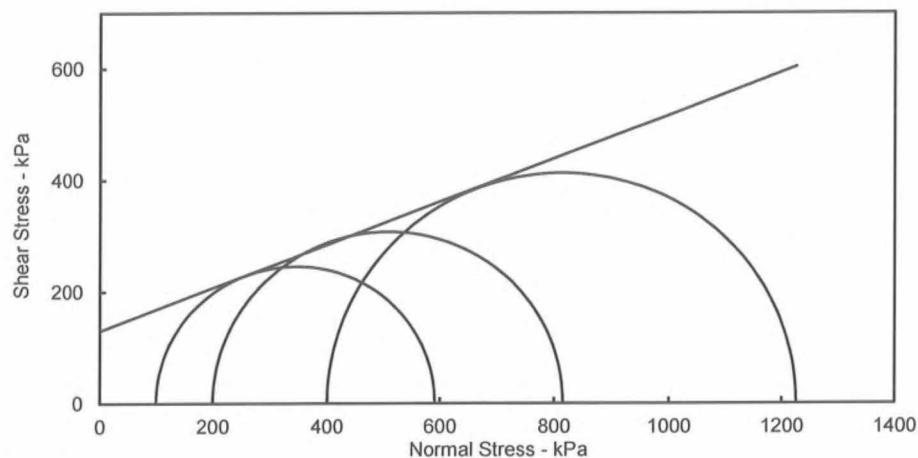
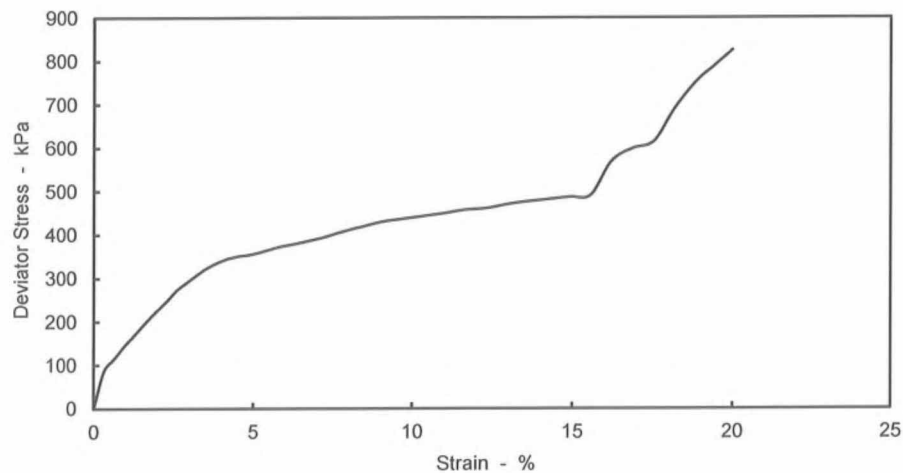




Contract No.	C7690
Hole	S05
Depth (m)	4.20
Sample Type	U

Sample Details				
Sample Condition		Undisturbed		
Height	mm	154.1		
Diameter	mm	69.7		
Moisture Content	%	9.6		
Bulk Density	Mg/m ³	2.22		
Dry Density	Mg/m ³	2.02		
Test Details	Stage	1	2	3
Membrane Thickness	mm	0.20	0.20	0.20
Membrane Correction	kPa	0.91	0.99	1.09
Rate of Axial Displacement	%/min	0.99	0.99	0.99
Cell Pressure	kPa	100	200	400
Strain at Failure	%	15.6	17.5	20.0
Maximum Deviator Stress	kPa	491	616	825
Shear Strength	kPa	246	308	413
Mode of Failure		Compound		
Non Engineering Description		Stiff intact brown clayey silty very gravelly SAND. Gravel is fine to coarse.		

Comments
Undisturbed specimen taken 100mm below top of tube

Shear Strength Parameters		
C	130	kPa
Phi	21.1	°



Originator	Checked & Approved	UNCONSOLIDATED UNDRAINED MULTISTAGE TRIAXIAL COMPRESSION BS 1377 : Part 7 : 1990 Clause 9	
SP	 10/07/2022		



Site	BEESLACK HIGH SCHOOL	Contract No.	C7690
Client	Johnson Poole & Bloomer Consultants	Hole	S07
Engineer	Johnson Poole & Bloomer Consultants	Depth (m)	1.20
		Sample Type	U

Sample Details

Sample Condition	Undisturbed		
Height	mm	166.0	
Diameter	mm	84.8	
Moisture Content	%	17	
Bulk Density	Mg/m³	2.15	
Dry Density	Mg/m³	1.84	

Comments

Undisturbed specimen taken
20mm below top of tube

Test Details

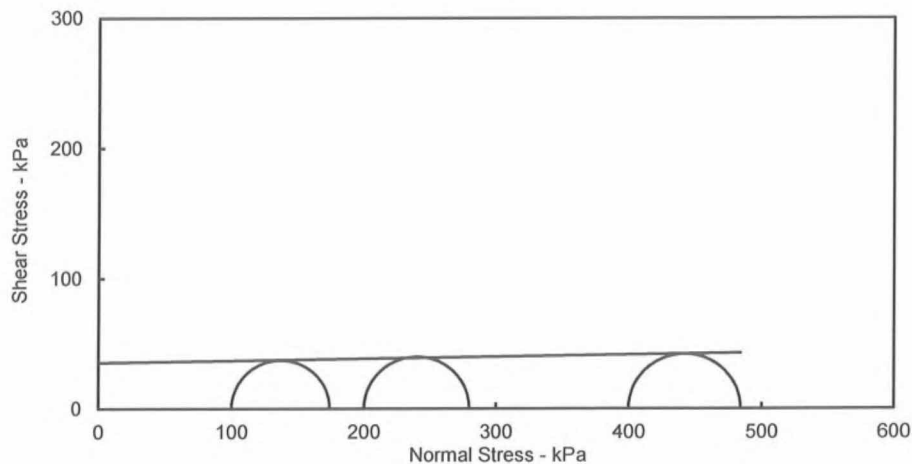
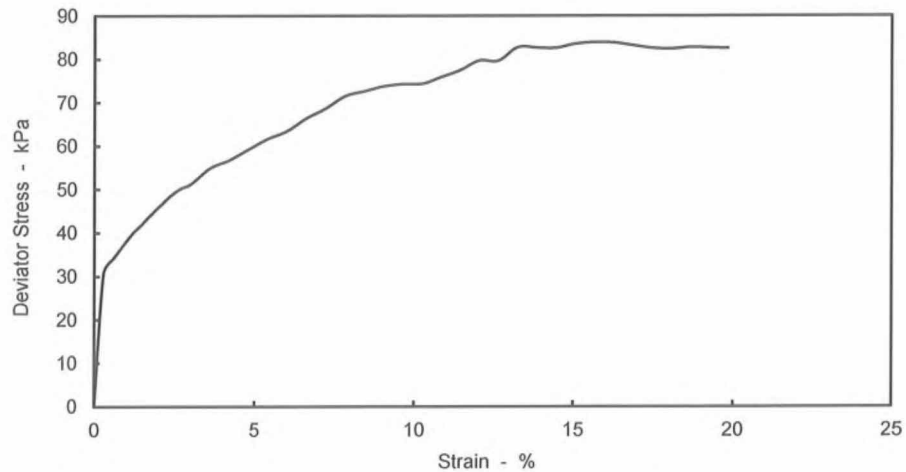
	Stage	1	2	3
Membrane Thickness	mm	0.20	0.20	0.20
Membrane Correction	kPa	0.54	0.61	0.75
Rate of Axial Displacement	%/min	0.92	0.92	0.92
Cell Pressure	kPa	100	200	400
Strain at Failure	%	10.2	12.1	15.7
Maximum Deviator Stress	kPa	74	80	84
Shear Strength	kPa	37	40	42
Mode of Failure	Compound			

Non Engineering Description

Soft intact dark brown slightly gravelly slightly
sandy CLAY. Gravel is fine to coarse.

Shear Strength Parameters

C 36 kPa
Phi 0.9 °



Originator

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Approved

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01/07/2022

**UNCONSOLIDATED UNDRAINED MULTISTAGE
TRIAXIAL COMPRESSION**
BS 1377 : Part 7 : 1990 Clause 9



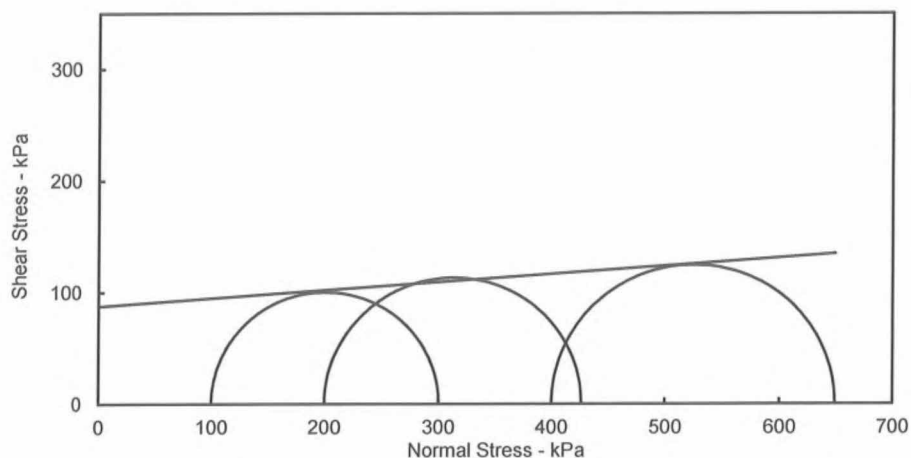
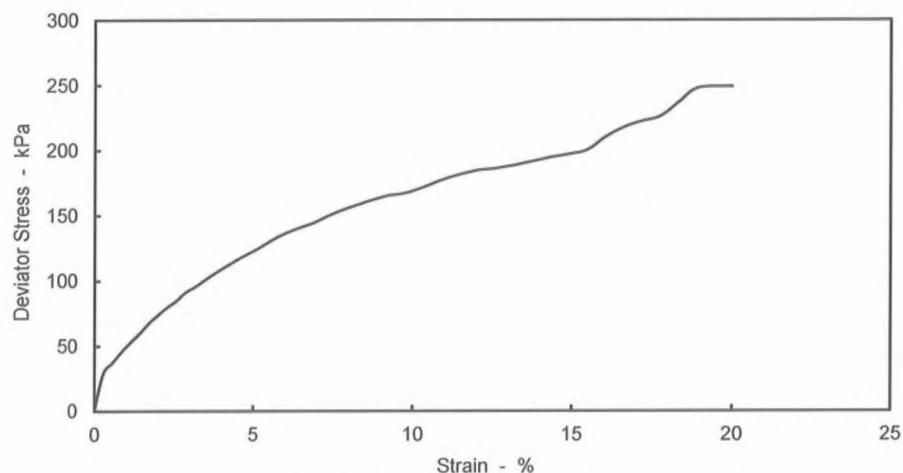


Site	BEESLACK HIGH SCHOOL	Contract No.	C7690
Client	Johnson Poole & Bloomer Consultants	Hole	S13
Engineer	Johnson Poole & Bloomer Consultants	Depth (m)	1.20
		Sample Type	U

Sample Details		Undisturbed			
Sample Condition					
Height	mm				174.2
Diameter	mm				83.6
Moisture Content	%				14
Bulk Density	Mg/m³				2.31
Dry Density	Mg/m³				2.02
Test Details	Stage	1	2	3	
Membrane Thickness	mm	0.20	0.20	0.20	
Membrane Correction	kPa	0.76	0.84	0.91	
Rate of Axial Displacement	%/min	0.87	0.87	0.87	
Cell Pressure	kPa	100	200	400	
Strain at Failure	%	15.5	17.8	20.0	
Maximum Deviator Stress	kPa	200	227	249	
Shear Strength	kPa	100	113	125	
Mode of Failure		Compound			
Non Engineering Description		Stiff intact dark brown slightly gravelly sandy CLAY. Gravel is fine to coarse.			

Comments
Undisturbed specimen taken 20mm below top of tube

Shear Strength Parameters		
C	88	kPa
Phi	4.1	°



Originator	Checked & Approved	UNCONSOLIDATED UNDRAINED MULTISTAGE TRIAXIAL COMPRESSION BS 1377 : Part 7 : 1990 Clause 9		
SP	01/07/2022			

**FACTUAL REPORT
ON
GROUND INVESTIGATION
AT
BEESLACK HIGH SCHOOL
PENICUIK**

October 2024

Ref No: P427

Engineer: Johnson Poole & Bloomer



Aitken Laboratories Limited

SITE INVESTIGATION CONTRACTORS
Castlehill House, Bank Street, Slamannan, FK1 3EZ
Tel: 01324 851389 E: office@aitkenlabs.co.uk

Johnson Poole & Bloomer
50 Speirs Wharf
Glasgow
G4 9TB

Date: 08 October 2024

Our Ref: P427

Your Ref:

FAO: Mr K. McSorley

Dear Sirs

SITE INVESTIGATION AT BEESLACK HIGH SCHOOL, PENICUIK

Please find enclosed our report for the above ground investigation.

This report was prepared by Mr A. Dobinson.

We trust this report is satisfactory, however if we can be of any further assistance, please do not hesitate to contact us.

As part of our Quality System, we encourage feedback from our clients. On this basis, if you have any comments or suggestions, or if you feel we could improve our service to you in any way, we would be most interested to hear from you.

Yours faithfully
for and on behalf of
AITKEN LABORATORIES LIMITED



Alastair Dobinson
B. Eng. (Hons), C. Eng., M.I.C.E.

Technical Director





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4. REFERENCES	3 of 3

Appendix 1

Site Plan	
Soils Borehole Logs	CP101 – CP103

Appendix 2

Laboratory Testing References		
Summary of Test Results	Table 1	Page 1 of 11
Liquid Limit and Plastic Limit Test Results		Page 2 – 3 of 11
Triaxial Test Results		Page 4 – 7 of 11
Consolidation Test Results		Page 8 – 9 of 11
Compaction Test Results		Page 10 – 11 of 11



FACTUAL REPORT ON GROUND INVESTIGATION AT BEESLACK HIGH SCHOOL PENICUIK

1. INTRODUCTION

It is proposed to construct a new Beeslack Primary School, Penicuik.

At the request of Johnson Poole & Bloomer, Consulting Engineers for the project, an investigation was carried out to confirm the ground conditions at the site to provide an assessment to the conditions with respect to design and construction of the proposed scheme.

This report presents the information established by observation, boring, sampling and in-situ testing. It should be noted that natural strata vary from point to point and that man-made deposits are subject to an even greater diversity. Groundwater conditions are dependent upon seasonal and other factors. Whilst an attempt is made in reporting to assess the likelihood or extent of such variations at the site, it should be recognised that there may be conditions pertaining which are not disclosed by the investigation.

Opinions and interpretations expressed herein are outside the scope of UKAS Accreditation.

2. SITE WORK

The field works were carried out during the period 23rd August to 5th September 2024 and comprised:-

5 No. Light Cable Percussion Boreholes, including 2 No. re-bores, to a maximum depth of 18.60 metres

Details of the boreholes including daily progress of hole and casing, descriptions of strata encountered, records of sampling and in-situ testing carried out, observations of groundwater conditions while boring and depths to changes in strata are presented in the exploratory hole records in Appendix 1.



3. LABORATORY TESTING

The samples of soil taken during the site works were transported to the laboratory for systematic examination and testing. The characteristics of the soils determined in the laboratory were used to supplement field observations in the preparation of the final exploratory hole records.

Testing was carried out on selected samples to the requirements of the relevant British Standards, or in accordance with current good practice, as appropriate. The laboratory testing was undertaken during the period 23rd September to 4th October 2024.

The Laboratory Testing References section of Appendix 2 details the tests performed in the laboratory which are UKAS accredited.

Tests marked "Not UKAS Accredited" in this report are not included in the UKAS Accreditation Schedule for our laboratory.

Laboratory Testing Comprised:-

- Classification Tests
- Undrained Triaxial Strength Tests
- Consolidation Tests
- Compaction Tests

The results are presented in summary and detailed Tables and Figures in Appendix 2.



REFERENCES

1. BS5930:2015 Code of Practice for "Site Investigation" British Standard Code of Practice, British Standards Institution, London
2. BS1377:1990 Parts 1 to 9 British Standard "Methods of Test of Soils for civil engineering purposes". British Standards Institution, London.
3. BS10175:2011 Investigation of potentially contaminated site – Code of Practice.
4. Building Research Establishment, Special Digest 2005, Concrete in Aggressive Ground.