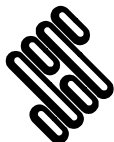


Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI		Client: Homes England		Window Sample: WS108
Contract Ref: 562943	Start: 18.04.19 End: 18.04.19	Ground Level (m AOD): 25.82	National Grid Co-ordinate: E:531373.2 N:120505.1	Sheet: 4 of 4

WS108: Post drilling



Method Used:	Tracked window sampling	Plant Used:	Dando Terrier	Drilled By:	Oakland SI	Logged By:	O Jinadu	Checked By:	AGS
--------------	-------------------------	-------------	---------------	-------------	------------	------------	----------	-------------	-----



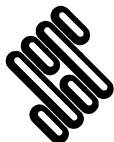
STRUCTURAL SOILS

WINDOW SAMPLE LOG

Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI			Client: Homes England		Window Sample: WS110
Contract Ref: 562943	Start: 23.04.19 End: 23.04.19	Ground Level (m AOD): 25.65	National Grid Co-ordinate: E:531285.1 N:120625.4		Sheet: 1 of 3

Progress		Samples / Tests			Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Window Run	Depth	No	Type	Results					
	0.00	1	B				Grass over soft light brown slightly sandy clayey SILT with frequent rootlets (<5 x 5 mm). Sand is fine to coarse. (TOPSOIL)	(0.30)	
	0.20	2	D				Soft to firm greyish brown mottled orange and brown slightly sandy silty CLAY. With rare fragments of extremely weak mudstone. Sand is fine to coarse. (WEALD CLAY FORMATION)	0.30	
	0.20-0.30	3	ES						
	0.20		PID	0.0ppm					
	0.40-0.90	4	B						
	0.40	5	D				(0.80)		
	0.40-0.50	6	ES	0.0ppm					
	0.40		PID						
	0.90	7	D						
	0.90		V	c _u =70/72/70			1.10		
	1.10	8	D				(0.70)		
	1.20-1.65	7	SPT	N=21					
	1.20	9	DSPT						
	1.40	10	D						
	1.80	11	D				(0.30)		
	1.90-2.60	12	ES						
	1.90		PID	0.0ppm					
	2.00-2.45	13	SPT	N=41					
	2.00	13	DSPT				2.10		
	2.00-2.60	14	D				(0.95)		
	2.20								
	2.50	15	D						
	2.60-3.05	16	SPT	N=51					
	2.60	16	DSPT				3.05		
Window sample hole terminated at 3.05m depth upon refusal.									

Drilling Progress and Water Observations						General Remarks					
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)						
23/04/19	15:00	3.05	-	67	Dry	1. Service clearance undertaken by DDS Ltd. 2. Inspection pit hand dug to 1.20m. 3. No Groundwater encountered. 4. Weathering classifications applied using BS EN ISO 14689:2018 (approach 4). 5. Backfilled with arisings upon completion. 6. SPT hammer EQU2321-2019 ($E_r = 62.23\%$) used.					
All dimensions in metres						Scale:		1:25			
Method Used:	Tracked window sampling		Plant Used:	Dando Terrier		Drilled By:	Oakland SI	Logged By:	O Jinadu	Checked By:	AGS



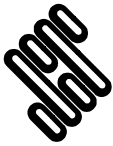
Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI		Client: Homes England		Window Sample: WS110
Contract Ref: 562943	Start: 23.04.19 End: 23.04.19	Ground Level (m AOD): 25.65	National Grid Co-ordinate: E:531285.1 N:120625.4	Sheet: 2 of 3

WS110: 1.20m-2.00m



WS110: 2.00-2.60m

Method Used: Tracked window sampling	Plant Used: Dando Terrier	Drilled By: Oakland SI	Logged By: O Jinadu	Checked By:	AGS
---	------------------------------	---------------------------	------------------------	-------------	-----



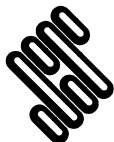
Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI		Client: Homes England		Window Sample: WS110
Contract Ref: 562943	Start: 23.04.19 End: 23.04.19	Ground Level (m AOD): 25.65	National Grid Co-ordinate: E:531285.1 N:120625.4	Sheet: 3 of 3

WS110: Before drilling



WS110: Post drilling

Method Used:	Tracked window sampling	Plant Used:	Dando Terrier	Drilled By:	Oakland SI	Logged By:	O Jinadu	Checked By:	AGS
--------------	-------------------------	-------------	---------------	-------------	------------	------------	----------	-------------	-----



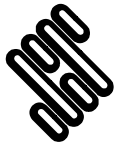
Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI			Client: Homes England		Window Sample: WS111
Contract Ref: 562943	Start: 17.04.19	Ground Level (m AOD): 26.07	National Grid Co-ordinate: E:531265.7 N:120665.9		Sheet: 1 of 2

Progress	Samples / Tests				Water	Backfill	Description of Strata	Depth (Thick ness)	Material Graphic Legend
Window Run	Depth	No	Type	Results					
▲ 1.20 - 1.60 (67mm dia) 100% rec	0.00-0.30	1	B	0.1ppm			Grass over soft to firm slightly sandy clayey SILT with frequent rootlets (3 x 5mm). Sand is fine to coarse. (TOPSOIL)	(0.30)	
	0.20	2	D				Soft to firm orangish brown and grey mottled orange and brown slightly sandy silty CLAY with rare pockets (up to 10mm) of reddish brown mudstone lithorelics. (WEALD CLAY FORMATION)	0.30	
	0.20-0.30	3	ES					0.1ppm	(0.60)
	0.20		PID						
	0.40-0.90	4	B						
	0.40	5	D						
	0.50-0.60	6	ES						
	0.50		PID						
	0.90	7	D	c _u =120/118/120			Firm to sitff orangish brown and grey mottled orange and brown slightly sandy silty CLAY. With rare pockets (up to 10mm) of reddish brown mudstone lithorelics. (WEALD CLAY FORMATION)	0.90	
	0.90		V					(0.40)	
1.20-1.50	8	SPT	2,2/7,22 for 75mm	Extremely weak grey and brown locally mottled orange and brown SILTSTONE. Recovered as stiff gravelly sandy SILT with occasional pockets (up to 20mm) of stiff clay. Sand is fine to coarse. Gravel is subangular fine to coarse mudstone. . (WEALD CLAY FORMATION)			1.30		
1.20-1.60	8	D					(0.30)		
1.40-1.60	9	D							
							Window sample hole terminated at 1.60m depth upon refusal.		

Drilling Progress and Water Observations						General Remarks					
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)						
17/04/19	12:00	1.60	-	67	Dry	1. Service clearance undertaken by DDS Ltd. 2. Inspection pit hand dug to 1.20m. 3. No Groundwater encountered. 4. No ES sample after 0.60m depth as limited recovery from liner due to hard ground conditions. 5. Weathering classifications applied using BS EN ISO 14689:2018 (approach 4).					
						All dimensions in metres		Scale:	1:25		
Method Used:	Tracked window sampling		Plant Used:	Dando Terrier		Drilled By:	Oakland SI	Logged By:	O Jinadu	Checked By:	

[illegible]

GINT_LIBRARY_v8_07.GLB LibVersion: v8_07_001 ProjVersion: v8_07 | Log WINDOW SAMPLE LOG - A4P | 562943_HE_NORTH_ARC_BURGESS_HILL_FREEKS_FARM&LINK_ROAD_GI.GPJ - v8_07_11/06/19 - 10:29 | SG8 |



Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI		Client: Homes England		Window Sample: WS112	
Contract Ref: 562943		Start: 17.04.19 End: 17.04.19	Ground Level (m AOD): 29.63	National Grid Co-ordinate: E:531358.5 N:120702.5	Sheet: 1 of 4

Progress		Samples / Tests			Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend			
Window Run	Depth	No	Type	Results								
▲ 1.20 - 1.60 (67mm dia) 100% rec ▲ 1.60 - 1.95 (77mm dia) 0% rec	0.00-0.30	1	B	0.2ppm			Grass over soft to firm light brown slightly sandy clayey SILT with frequent rootlets (3 x 3mm). Sand is fine to coarse. (TOPSOIL)	(0.30)				
	0.20	2	D				Soft to firm orangish brown and grey slightly sandy silty CLAY. Sand is fine to coarse. (WEALD CLAY FORMATION)	0.30				
	0.20-0.30	3	ES									
	0.20		PID	0.1ppm								
	0.40-0.90	4	B									
	0.40	5	D									
	0.50-0.60	6	ES									
	0.50		PID									
	0.90	7	D	4,7/6,9,18,32 for 65mm				(1.00)				
	1.20-1.64	8	SPT					1.30				
	1.20-1.65	8	D									
1.40	9	D	14,21/28,32 for 75mm				Stiff orangish brown and grey locally stained reddish brown sandy clayey SILT. With occasional fine to coarse gravel of extremely weak subangular to angular mudstone. Sand is fine. (WEALD CLAY FORMATION)	1.50				
1.65-1.95	10	SPT					Extremely weak thinly laminated grey and brown MUDSTONE. Recovered as sandy silty subangular to angular fine to coarse GRAVEL. Sand is fine to medium. (WEALD CLAY FORMATION)	(0.45)				
1.65-1.90	10	D					Window sample hole terminated at 1.95m depth.	1.95				

Drilling Progress and Water Observations						General Remarks			
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)	1. Service clearance undertaken by DDS Ltd. 2. Inspection pit hand dug to 1.20m. 3. No Groundwater encountered. 4. Borehole complete at 1.95m. 5. No suitable material to take Hand Vane. 6. Weathering classifications applied using BS EN ISO 14689:2018 (approach 4).			
17/04/19	13:00	1.95	-	57	Dry				
						All dimensions in metres		Scale:	1:25
Method Used:	Tracked window sampling		Plant Used:	Dando Terrier		Drilled By:	Oakland SI	Logged By:	O Jinadu
						Checked By:			

[illegible]

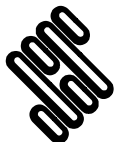


Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI		Client: Homes England		Window Sample: WS112
Contract Ref: 562943	Start: 17.04.19 End: 17.04.19	Ground Level (m AOD): 29.63	National Grid Co-ordinate: E:531358.5 N:120702.5	Sheet: 3 of 4

WS112: 1.20m-1.60m



Method Used:	Tracked window sampling	Plant Used:	Dando Terrier	Drilled By:	Oakland SI	Logged By:	O Jinadu	Checked By:	AGS
--------------	-------------------------	-------------	---------------	-------------	------------	------------	----------	-------------	-----



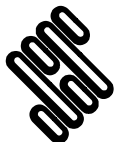
Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI		Client: Homes England		Window Sample: WS112
Contract Ref: 562943	Start: 17.04.19 End: 17.04.19	Ground Level (m AOD): 29.63	National Grid Co-ordinate: E:531358.5 N:120702.5	Sheet: 4 of 4

WS112: Before drilling



WS112: Post drilling

Method Used:	Tracked window sampling	Plant Used:	Dando Terrier	Drilled By:	Oakland SI	Logged By:	O Jinadu	Checked By:	AGS
--------------	-------------------------	-------------	---------------	-------------	------------	------------	----------	-------------	-----



Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI			Client: Homes England		Window Sample: WS113
Contract Ref: 562943	Start: 17.04.19	Ground Level (m AOD): 29.63	National Grid Co-ordinate: E:531454.2 N:120662.8		Sheet: 1 of 3
End: 17.04.19					

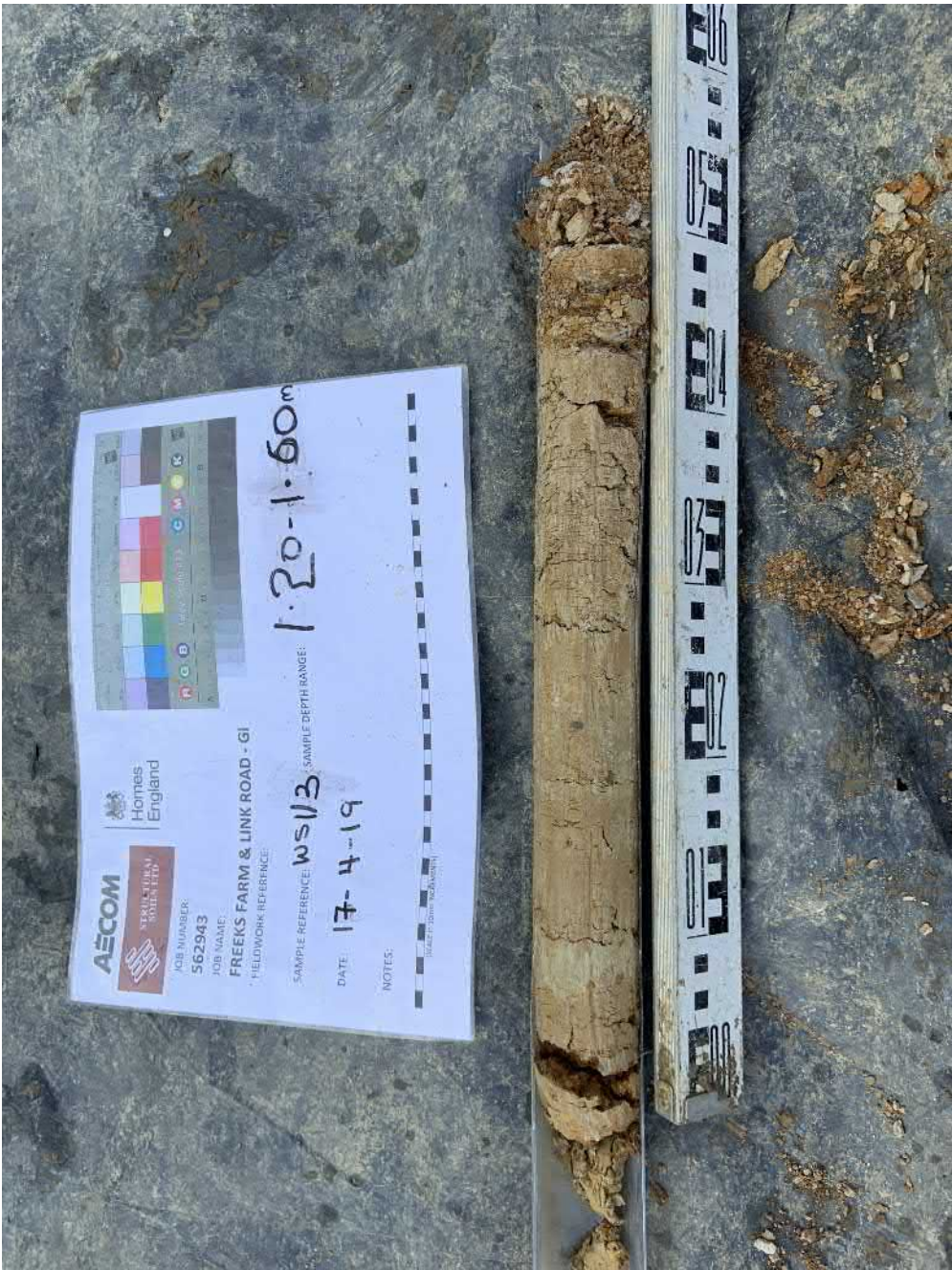
Progress		Samples / Tests			Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Window Run	Depth	No	Type	Results					
▲ 1.20 - 1.60 (67mm dia) 100% rec + 1.60 - 1.90 (57mm dia) 0% rec	0.00-0.30	1	B				Grass over firm light brown slightly sandy clayey SILT with frequent rootlets (3 x 3mm). Sand is fine to coarse. (TOPSOIL)	(0.30)	
	0.20	2	D				Firm orangish brown and grey mottled orange and brown sandy silty CLAY with rare subangular to angular fine to coarse mudstone lithorelics. Sand is fine to coarse. (WEALD CLAY FORMATION)	0.30	
	0.20-0.30	3	ES						
	0.20		PID	0.1ppm					
	0.40-0.90	4	B						
	0.40	5	D						
	0.40-0.50	6	ES	c _u =80/84/80					
	0.40		V	0.0ppm					
	0.40		PID						
	0.90	7	D				Extremely weak grey and brown locally stained orangish brown destructured MUDSTONE. Recovered as slightly silty sandy subangular to angular fine to coarse GRAVEL. Sand is fine to coarse. (WEALD CLAY FORMATION)	(1.10)	
	0.90		V	c _u =80/82/80					
	1.20-1.65	8	SPT	N=39					
	1.20-1.65	8	D					1.40	
	1.40-1.50	9	ES						
	1.40		PID	0.0ppm					
	1.60-1.90	10	SPT	5,24/30,41 for 75mm			Window sample hole terminated at 1.90m depth.	(0.50)	
	1.60-1.85	10	D					1.90	

Drilling Progress and Water Observations						General Remarks					
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)						
17/04/19	15:00	1.90	-	57	Dry						
						1. Service clearance undertaken by DDS Ltd. 2. Inspection pit hand dug to 1.20m. 3. No Groundwater encountered. 4. Weathering classifications applied using BS EN ISO 14689:2018 (approach 4). 5. Backfilled with bentonite on completion. 6. SPT hammer EQU2321-2019 (E_r = 62.23%) used.					
						All dimensions in metres	Scale:	1:25			
Method Used:	Tracked window sampling		Plant Used:	Dando Terrier		Drilled By:	Oakland SI	Logged By:	O Jinadu	Checked By:	

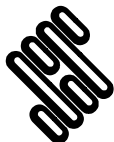


Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI		Client: Homes England		Window Sample: WS113
Contract Ref: 562943	Start: 17.04.19 End: 17.04.19	Ground Level (m AOD): 29.63	National Grid Co-ordinate: E:531454.2 N:120662.8	Sheet: 2 of 3

WS113: 1.20m-1.60m

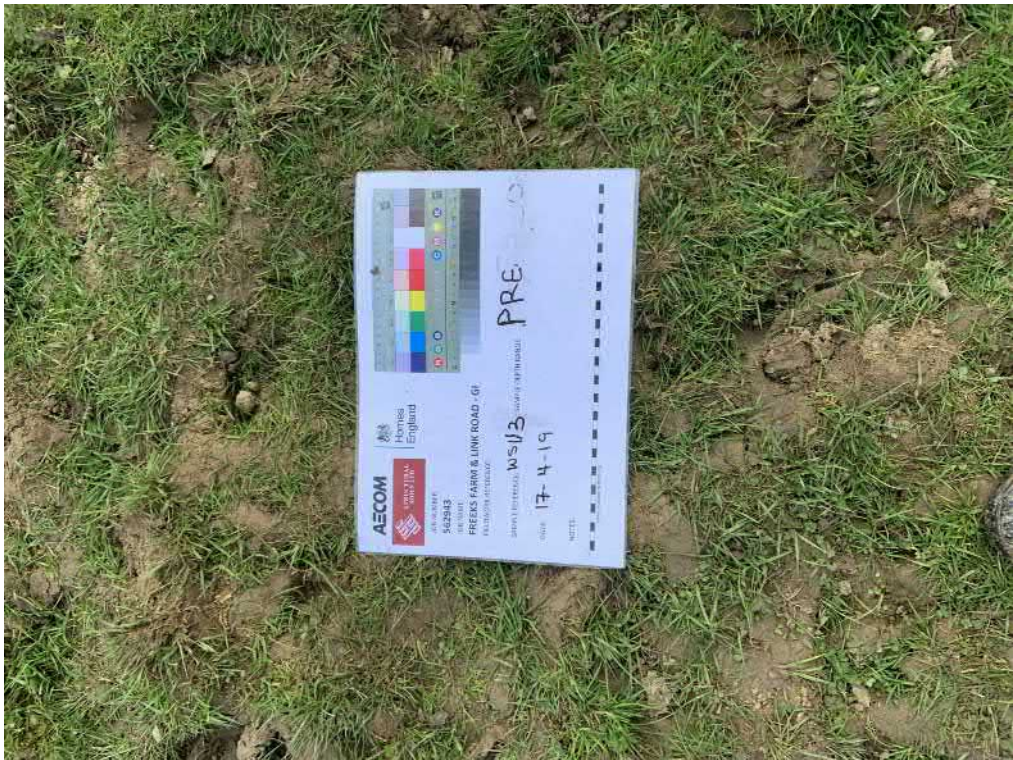


Method Used: Tracked window sampling	Plant Used: Dando Terrier	Drilled By: Oakland SI	Logged By: O Jinadu	Checked By:	
---	------------------------------	---------------------------	------------------------	-------------	--



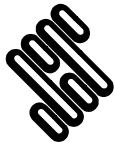
Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI		Client: Homes England		Window Sample: WS113
Contract Ref: 562943	Start: 17.04.19 End: 17.04.19	Ground Level (m AOD): 29.63	National Grid Co-ordinate: E:531454.2 N:120662.8	Sheet: 3 of 3

WS113: Before drilling



WS113: Post drilling

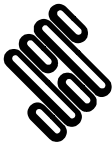
Method Used: Tracked window sampling	Plant Used: Dando Terrier	Drilled By: Oakland SI	Logged By: O Jinadu	Checked By:	
---	------------------------------	---------------------------	------------------------	-------------	--



Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI			Client: Homes England		Window Sample: WS114
Contract Ref: 562943	Start: 16.04.19	Ground Level (m AOD): 34.20	National Grid Co-ordinate: E:531477.5 N:120767.2		Sheet: 1 of 3

Progress		Samples / Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Window Run	Depth	No	Type	Results						
1.20 - 2.00 (67mm dia) 100% rec 2.00 - 2.35 (57mm dia) 0% rec	0.00-0.20	1	B	0.1ppm		Grass over firm slightly sandy clayey SILT with frequent rootlets (3 x 3 mm). Sand is fine to coarse. (TOPSOIL)	0.20			
	0.10	2	D							
	0.10-0.20	3	ES							
	0.10		PID							
	0.30	4	B	0.1ppm			Firm orangish brown to greyish brown sandy silty CLAY. Sand is fine to coarse. (WEALD CLAY FORMATION)	(0.60)		
	0.30	5	D							
	0.40-0.50	6	ES							
	0.40		PID							
	0.80	7	D	c _u =70/72/70			Firm orangish brown to mottled orangish brown locally stained reddish brown slightly gravelly slightly sandy silty CLAY. Gravel is angular to subangular fine to coarse extremely weak mudstone. (WEALD CLAY FORMATION)	0.80		
	0.90-1.50	8	B							
	1.00	9	D							
	1.00		V							
	1.20-1.30	10	ES	N=16				(1.00)		
	1.20-1.65	11	SPT							
	1.20-1.65	11	D							
	1.20		PID							
	1.50	12	D	0.0ppm						
	1.60-1.70	13	ES							
1.60		PID								
			0.0ppm		... from 1.60m to 1.80m becomes thinly laminated (<3mm).	1.80				
			7,10/18,33,50 for 50mm			2.00				
	2.00-2.35	14	SPT			(0.35)				
	2.00-2.30	14	D							
						2.35				
</										

Drilling Progress and Water Observations						General Remarks					
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)						
16/04/19	11:00	2.35	-	57	Dry	1. Service clearance undertaken by DDS Ltd. 2. Inspection pit hand dug to 1.20m. 3. No Groundwater encountered. 4. Weathering classifications applied using BS EN ISO 14689:2018 (approach 4). 5. Backfilled with bentonite on completion. 6. SPT hammer EQU2321-2019 (E_r = 62.23%) used.					
						All dimensions in metres		Scale:	1:25		
Method Used:	Tracked window sampling		Plant Used:	Dando Terrier		Drilled By:	Oakland SI	Logged By:	O Jinadu	Checked By:	

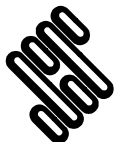


Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI		Client: Homes England		Window Sample: WS114
Contract Ref: 562943	Start: 16.04.19 End: 16.04.19	Ground Level (m AOD): 34.20	National Grid Co-ordinate: E:531477.5 N:120767.2	Sheet: 2 of 3

WS114: 1.20m-2.00m



Method Used:	Tracked window sampling	Plant Used:	Dando Terrier	Drilled By:	Oakland SI	Logged By:	O Jinadu	Checked By:	AGS
--------------	-------------------------	-------------	---------------	-------------	------------	------------	----------	-------------	-----



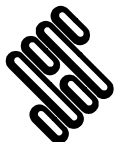
Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI		Client: Homes England		Window Sample: WS114
Contract Ref: 562943	Start: 16.04.19 End: 16.04.19	Ground Level (m AOD): 34.20	National Grid Co-ordinate: E:531477.5 N:120767.2	Sheet: 3 of 3

WS114: Before drilling



WS114: Post drilling

Method Used: Tracked window sampling	Plant Used: Dando Terrier	Drilled By: Oakland SI	Logged By: O Jinadu	Checked By:	AGS
---	------------------------------	---------------------------	------------------------	-------------	-----



Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI			Client: Homes England		Window Sample: WS116
Contract Ref: 562943	Start: 23.04.19 End: 23.04.19	Ground Level (m AOD): 34.07	National Grid Co-ordinate: E:531366.1 N:120835.0		Sheet: 1 of 4

Progress	Samples / Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend	
Window Run	Depth	No	Type	Results						
1.20 - 2.00 (87mm dia) 100% rec 2.00 - 2.45 (77mm dia) 0% rec	0.00-0.40	1	B	N=19			Vegetation over soft to firm dark brown slightly sandy clayey SILT with occasional rootlets (5 x 5mm). Sand is fine to coarse. (TOPSOIL)	(0.40)		
	0.20	2	D				Soft orangish brown slightly gravelly slightly sandy silty CLAY. Sand is fine to coarse. Gravel is angular to subangular fine to medium extremely weak mudstone. (WEALD CLAY FORMATION)	0.40		
	0.30-0.40	3	ES					Firm to stiff orangish brown mottled grey and orange slightly sandy slightly gravelly silty CLAY. Sand is fine to coarse. Gravel is angular to subangular fine to coarse of mudstone. (WEALD CLAY FORMATION)	(0.40)	
	0.50-0.80	4	B				Extremely weak grey and orange locally stained reddish brown MUDSTONE. Recovered as slightly clayey sandy angular to subangular fine to coarse GRAVEL. Sand is fine to coarse. (WEALD CLAY FORMATION)		0.80	
	0.50	5	D						Window sample hole terminated at 2.45m depth.	
	0.60-0.70	6	ES							
	0.80-1.20	7	B							
	0.80	8	D							
	0.90-1.00	9	ES							
	1.20-1.65	10	SPT	N=86				(1.00)		
	1.20-1.65	10	DSPT							
	1.40	11	D							
	1.90	12	D	N=86				(0.65)		
	1.90-2.00	13	ES							
	2.00-2.45	14	SPT							
2.00-2.45	14	DSPT								
Window sample hole terminated at 2.45m depth.								2.45		

Drilling Progress and Water Observations						General Remarks					
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)						
23/04/19	13:30	2.45	-	77	Dry	1. Service clearance undertaken by DDS Ltd. 2. Inspection pit hand dug to 1.20m. 3. No Groundwater encountered. 4. No suitable material to take Hand Vanes. 5. Weathering classifications applied using BS EN ISO 14689:2018 (approach 4). 6. 50mm diameter HPDE monitoring pipe installed to 2.0m depth (response					
						All dimensions in metres		Scale:	1:25		
Method Used:	Tracked window sampling		Plant Used:	Dando Terrier		Drilled By:	Oakland SI	Logged By:	O Jinadu	Checked By:	AGS

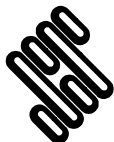


Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI		Client: Homes England		Window Sample: WS116
Contract Ref: 562943	Start: 23.04.19 End: 23.04.19	Ground Level (m AOD): 34.07	National Grid Co-ordinate: E:531366.1 N:120835.0	Sheet: 2 of 4

[illegible]

Drilling Progress and Water Observations						General Remarks
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)	
						zone 1.0m-2.0m) on completion with concreted flush cover. 7. SPT hammer EQU2321-2019 (E_r = 62.23%) used.
						</

GINT_LIBRARY_v8_07.GLB LibVersion: v8_07_001 ProjVersion: v8_07 | Log WINDOW SAMPLE LOG - A4P | 562943_HE_NORTH_ARC_BURGESS_HILL_FREEKS_FARM&LINK_ROAD_GI.GPJ - v8_07_11/06/19 - 10:31 | SG8 |

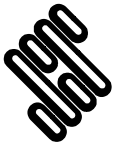


Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI		Client: Homes England		Window Sample: WS116
Contract Ref: 562943	Start: 23.04.19 End: 23.04.19	Ground Level (m AOD): 34.07	National Grid Co-ordinate: E:531366.1 N:120835.0	Sheet: 3 of 4

WS116: 1.20m-2.00m



Method Used:	Tracked window sampling	Plant Used:	Dando Terrier	Drilled By:	Oakland SI	Logged By:	O Jinadu	Checked By:	AGS
--------------	-------------------------	-------------	---------------	-------------	------------	------------	----------	-------------	-----



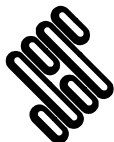
Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI		Client: Homes England		Window Sample: WS116
Contract Ref: 562943	Start: 23.04.19 End: 23.04.19	Ground Level (m AOD): 34.07	National Grid Co-ordinate: E:531366.1 N:120835.0	Sheet: 4 of 4

WS116: Before drilling



WS116: Post drilling

Method Used:	Tracked window sampling	Plant Used:	Dando Terrier	Drilled By:	Oakland SI	Logged By:	O Jinadu	Checked By:	AGS
--------------	-------------------------	-------------	---------------	-------------	------------	------------	----------	-------------	-----

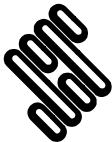


Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI			Client: Homes England		Window Sample: WS117
Contract Ref: 562943	Start: 17.04.19 End: 17.04.19	Ground Level (m AOD): 28.47	National Grid Co-ordinate: E:531223.9 N:120787.8		Sheet: 1 of 4

Progress	Samples / Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend	
Window Run	Depth	No	Type	Results						
↑ 1.20 - 1.90 (67mm dia) 100% rec ↓ ↑ 1.90 - 2.35 (57mm dia) 0% rec ↓	0.00-0.30	1	B	0.2ppm		Grass over soft light brown slightly sandy clayey SILT with frequent rootlets (3 x 3mm). Sand is fine to coarse. (TOPSOIL)	(0.30)			
	0.20	2	D			0.2ppm		Soft to firm orangish brown and grey mottled orange and brown sandy silty CLAY. Sand is fine to coarse. (WEALD CLAY FORMATION)	0.30	
	0.20-0.30	3	ES						(0.60)	
	0.20		PID							
	0.40-0.90	4	B							
	0.40	5	D							
	0.50-0.60	6	ES	0.2ppm		(0.60)				
	0.50		PID							
	0.90	7	D	0.0ppm N=32		Extremely weak thinly laminated grey and brown locally stained reddish brown oxidised MUDSTONE. Recovered as sandy clayey angular to subangular fine to coarse GRAVEL. Sand is fine to coarse. (WEALD CLAY FORMATION)	0.90			
	1.00	8	D				(0.30)			
	1.10-1.20	9	ES						1.20	
	1.10		PID							
	1.20-1.65	10	SPT							
	1.20-1.65	10	D							
	1.50	11	D	0.0ppm		(0.70)				
	1.60-1.70	12	ES							
	1.60		PID							
	1.90-2.35	13	SPT	N=53		Extremely weak grey and brown SILTSTONE. Recovered as slightly gravelly sandy SILT. Sand is fine to coarse. Gravel is subangular to angular fine to coarse. (WEALD CLAY FORMATION)	(0.45)			
	1.90-2.30	13	D				2.35			
	Window sample hole terminated at 2.35m depth upon refusal.									

Drilling Progress and Water Observations						General Remarks						
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)							
17/04/19	09:00	2.35	-	57	Dry	1. Service clearance undertaken by DDS Ltd. 2. Inspection pit hand dug to 1.20m. 3. No Groundwater encountered. 4. No suitable material to take Hand Vane. 5. Weathering classifications applied using BS EN ISO 14689:2018 (approach 4). 6. 50mm diameter HDPE monitoring pipe installed to 1.90m depth (response						
						All dimensions in metres		Scale:	1:25			
Method Used:	Tracked window sampling			Plant Used:	Dando Terrier		Drilled By:	Oakland SI	Logged By:	O Jinadu	Checked By:	AGS

[illegible]



Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI		Client: Homes England		Window Sample: WS117
Contract Ref: 562943	Start: 17.04.19 End: 17.04.19	Ground Level (m AOD): 28.47	National Grid Co-ordinate: E:531223.9 N:120787.8	Sheet: 3 of 4

WS117: 1.20m-1.80m



Method Used: Tracked window sampling	Plant Used: Dando Terrier	Drilled By: Oakland SI	Logged By: O Jinadu	Checked By:	AGS
---	------------------------------	---------------------------	------------------------	-------------	-----



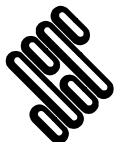
Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI		Client: Homes England		Window Sample: WS117
Contract Ref: 562943	Start: 17.04.19 End: 17.04.19	Ground Level (m AOD): 28.47	National Grid Co-ordinate: E:531223.9 N:120787.8	Sheet: 4 of 4

WS117: Before drilling



WS117: Post drilling

Method Used:	Tracked window sampling	Plant Used:	Dando Terrier	Drilled By:	Oakland SI	Logged By:	O Jinadu	Checked By:	AGS
--------------	-------------------------	-------------	---------------	-------------	------------	------------	----------	-------------	-----



STRUCTURAL SOILS

WINDOW SAMPLE LOG

Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI			Client: Homes England		Window Sample: WS118
Contract Ref: 562943	Start: 16.04.19 End: 16.04.19	Ground Level (m AOD): 28.42	National Grid Co-ordinate: E:531371.3 N:120931.2		Sheet: 1 of 4

Progress		Samples / Tests			Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Window Run	Depth	No	Type	Results					
	0.00-0.30	1	B				Grass over soft brown slightly sandy clayey SILT with frequent rootlets (3 x 3mm). Sand is fine to coarse. (TOPSOIL)	(0.30)	
	0.20	2	D					0.30	
	0.20-0.30	3	ES						
	0.20		PID	0.0ppm					
	0.30-0.80	4	B						
	0.30	5	D						
	0.40-0.50	6	ES						
	0.80	7	D						
	0.80		V	c _u =60/64/62					
	1.20-1.65	8	SPT	N=28					
	1.20-1.65	8	D						
	1.20	9	D						
	1.40	10	D						
	1.50-1.60	11	ES						
	1.50		PID	0.1ppm					
	1.90	12	D						
	2.00-2.45	16	SPT	N=39					
	2.00-2.45	16	D						
	2.10	13	D						
	2.20-2.30	14	ES						
	2.20		PID	0.0ppm					
	2.50	15	D						
	2.70	17	D						
	2.80-3.25	18	SPT	N=54					
	2.80-3.25	18	D						
							Extremely weak dark greyish brown mottled orangish brown heavily stained reddish brown oxidised destructured MUDSTONE. Recovered as stiff friable slightly silty gravelly sandy CLAY. Sand is fine to coarse. Gravel is angular to subangular fine to coarse. (WEALD CLAY FORMATION)	(0.45)	
							Window sample hole terminated at 3.25m depth upon refusal.	3.25	

Drilling Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)		
16/04/19	09:30	3.25	-	77	Dry	- Service clearance undertaken by DDS Ltd. - Inspection pit hand dug to 1.20m. - No Groundwater encountered. - Weathering classifications applied using BS EN ISO 14689:2018 (approach 4). 50mm diameter HDPE monitoring pipe installed to 2.80m depth on completion (response zone 1.0m-2.80m) with concreted flush cover.	
All dimensions in metres						Scale:	1:25
Method Used:	Tracked window sampling		Plant Used:	Dando Terrier		Drilled By:	Oakland SI
						Logged By:	O Jinadu
						Checked By:	

GINT_LIBRARY_V8_07.GLB LibVersion: v8_07 | Log WINDOW SAMPLE LOG - A4P | 562943_HE_NORTH_ARC_BURGESS_HILL_FREES_FARM&LINK_ROAD_GI.GPJ - v8_07.
| 11/06/19 - 10:33 | SG8 |

[illegible]

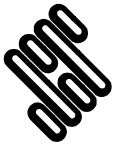


Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI		Client: Homes England		Window Sample: WS118
Contract Ref: 562943	Start: 16.04.19 End: 16.04.19	Ground Level (m AOD): 28.42	National Grid Co-ordinate: E:531371.3 N:120931.2	Sheet: 3 of 4

WS118: 1.20m-2.00m



Method Used: Tracked window sampling	Plant Used: Dando Terrier	Drilled By: Oakland SI	Logged By: O Jinadu	Checked By:	
---	------------------------------	---------------------------	------------------------	-------------	--

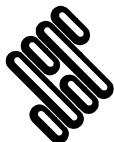


Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI		Client: Homes England		Window Sample: WS118
Contract Ref: 562943	Start: 16.04.19 End: 16.04.19	Ground Level (m AOD): 28.42	National Grid Co-ordinate: E:531371.3 N:120931.2	Sheet: 4 of 4

WS118: 1.20m-2.00m



Method Used:	Tracked window sampling	Plant Used:	Dando Terrier	Drilled By:	Oakland SI	Logged By:	O Jinadu	Checked By:	AGS
--------------	-------------------------	-------------	---------------	-------------	------------	------------	----------	-------------	-----



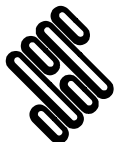
STRUCTURAL SOILS

WINDOW SAMPLE LOG

Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI			Client: Homes England		Window Sample: WS120
Contract Ref: 562943	Start: 10.04.19 End: 10.04.19	Ground Level (m AOD): 22.60	National Grid Co-ordinate: E:531440.8 N:121055.5		Sheet: 1 of 3

Progress		Samples / Tests			Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Window Run	Depth	No	Type	Results					
1.20 - 2.00 (101mm dia) 100% rec 2.00 - 2.40 (87mm dia) 100% rec 2.40 - 2.85 (77mm dia) 0% rec	0.00-0.30	1	B				Grass over soft to firm light brown slightly sandy clayey SILT with frequent rootlets (3 x 3mm). Sand is fine to coarse. (TOPSOIL)	(0.30)	
	0.20	2	D				Firm orangish brown and grey mottled orange and brown slightly sandy silty CLAY. With rare extremely weak mudstone gravel. Sand is fine to coarse. (WEALD CLAY FORMATION)	0.30	
	0.20-0.30	3	ES						
	0.20		PID	0.1ppm					
	0.40-0.90	4	B						
	0.40-0.90	5	D						
	0.50-0.60	6	ES						
	0.50		PID	0.1ppm					
	0.90	7	D					(1.10)	
	1.20-1.65	8	SPT	N=22					
	1.20-1.65	8	D					1.40	
	1.40	9	D				Firm orangish brown to grey mottled orange and brown locally stained reddish brown slightly gravelly slightly sandy silty CLAY. Sand is fine to coarse. Gravel is angular to subangular fine to coarse of extremely weak mudstone. Sand is fine to coarse. (WEALD CLAY FORMATION)	1.60	
	1.80	11	D					(0.40)	
	1.90-2.00	12	ES						
	1.90		PID	0.0ppm				2.00	
	2.00-2.45	14	SPT	N=48					
	2.00-2.40	14	D						
	2.40	15	D						
	2.40-2.85	16	SPT	N=54				(1.00)	
	2.40-2.80	16	D						
								3.00	
Window sample hole terminated at 3.00m depth upon refusal.									

Drilling Progress and Water Observations						General Remarks					
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)						
16/04/19	17:30	2.85	-	77	Dry						
1. Service clearance undertaken by DDS Ltd. 2. Inspection pit hand dug to 1.20m. 3. No Groundwater encountered. 4. Weathering classifications applied using BS EN ISO 14689:2018 (approach 4). 5. Backfilled with arisings upon completion. 6. SPT hammer EQU2321-2019 ($E_r = 62.23\%$) used.											
All dimensions in metres						Scale:	1:25				
Method Used:	Tracked window sampling		Plant Used:	Dando Terrier		Drilled By:	Oakland SI	Logged By:	O Jinadu	Checked By:	AGS



Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI		Client: Homes England		Window Sample: WS120
Contract Ref: 562943	Start: 10.04.19 End: 10.04.19	Ground Level (m AOD): 22.60	National Grid Co-ordinate: E:531440.8 N:121055.5	Sheet: 2 of 3

WS120: 1.20m-2.00m



WS120: 2.00m-3.00m

Method Used: Tracked window sampling	Plant Used: Dando Terrier	Drilled By: Oakland SI	Logged By: O Jinadu	Checked By:	AGS
---	------------------------------	---------------------------	------------------------	-------------	-----



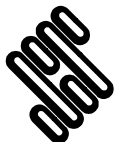
Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI		Client: Homes England		Window Sample: WS120
Contract Ref: 562943	Start: 10.04.19 End: 10.04.19	Ground Level (m AOD): 22.60	National Grid Co-ordinate: E:531440.8 N:121055.5	Sheet: 3 of 3

WS120: Before drilling



WS120: Post drilling

Method Used: Tracked window sampling	Plant Used: Dando Terrier	Drilled By: Oakland SI	Logged By: O Jinadu	Checked By:	
---	------------------------------	---------------------------	------------------------	-------------	--



STRUCTURAL SOILS

WINDOW SAMPLE LOG

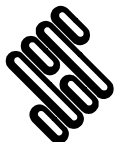
Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI			Client: Homes England		Window Sample: WS121
Contract Ref: 562943	Start: 16.04.19 End: 16.04.19	Ground Level (m AOD): 27.71	National Grid Co-ordinate: E:531511.0 N:120961.6		Sheet: 1 of 4

Progress		Samples / Tests			Water	Backfill & Instru- mentation	Description of Strata	Depth (Thick- ness)	Material Graphic Legend
Window Run	Depth	No	Type	Results					
1.20 - 2.00 (101mm dia) 100% rec 2.00 - 2.50 (87mm dia) 100% rec	0.00-0.30	1	B	0.1ppm			Grass over soft light brown slightly sandy clayey SILT with frequent rootlets (3 x 3mm). Sand is fine to coarse. (TOPSOIL)	(0.40)	
	0.20	2	D				0.40		
	0.20-0.30 0.20	3	ES PID						
	0.50-1.00	4	B	0.1ppm			Soft to firm brownish grey mottled orange and brown slightly sandy gravelly silty CLAY. Sand is fine to coarse. Gravel is angular to subangular fine to medium oxidised mudstone. (WEALD CLAY FORMATION)	(0.80)	
	0.50	5	D						
	0.60-0.70 0.60	6	ES PID						
	1.00	7	D	N=17			Firm to stiff orangish brown and grey mottled orange and brown slightly sandy silty CLAY. Sand is fine. (WEALD CLAY FORMATION)	(0.35)	
	1.20-1.65	8	SPT						
	1.20-1.65	8	D						
	1.30	9	D						
	1.40-1.50 1.40	10	ES PID	0.1ppm			Extremely weak thinly laminated (<3mm) grey and brown heavily stained reddish brown oxidised MUDSTONE. Recovered as slightly sandy silty angular to subangular fine to coarse GRAVEL. Sand is fine to coarse. (WEALD CLAY FORMATION)	1.55	
	1.65	11	D						
	1.70-1.80 1.70	12	ES PID						
	2.00-2.45 2.00-2.45	13 13	SPT D	N=77			Extremely weak grey and brown mottled bluish grey locally stained reddish brown MUDSTONE. Recovered as friable slightly gravelly sandy silty CLAY. Sand is fine to medium. (WEALD CLAY FORMATION)	2.15	
	2.20	14	D						
2.30-2.40 2.30	15	ES PID							
Window sample hole terminated at 2.50m depth.									

Drilling Progress and Water Observations						General Remarks								
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)									
16/04/19	14:00	2.50	-	87	Dry									
1. Service clearance undertaken by DDS Ltd. 2. Inspection pit hand dug to 1.20m. 3. No Groundwater encountered. 4. No suitable samples to take HV. 5. Weathering classifications applied using BS EN ISO 14689:2018 (approach 4). 6. 50mm diameter HDPE monitoring pipe installed to 1.50m depth (response														
All dimensions in metres				Scale: 1:25										
Method Used:	Tracked window sampling		Plant Used:	Dando Terrier		Drilled By:	Oakland SI		Logged By:	O Jinadu		Checked By:		

[illegible]

GINT_LIBRARY_v8_07.GLB LibVersion: v8_07_001 ProjVersion: v8_07 | Log WINDOW SAMPLE LOG - A4P | 562943_HE_NORTH_ARC_BURGESS_HILL_FREEKS_FARM&LINK_ROAD_GI.GPJ - v8_07_11/06/19 - 10:37 | SG8 |



Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI		Client: Homes England		Window Sample: WS121
Contract Ref: 562943	Start: 16.04.19 End: 16.04.19	Ground Level (m AOD): 27.71	National Grid Co-ordinate: E:531511.0 N:120961.6	Sheet: 3 of 4

WS121: 1.20m-2.00m



WS121: 2.00m-2.50m

Method Used:	Tracked window sampling	Plant Used:	Dando Terrier	Drilled By:	Oakland SI	Logged By:	O Jinadu	Checked By:	AGS
--------------	-------------------------	-------------	---------------	-------------	------------	------------	----------	-------------	-----



Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI		Client: Homes England		Window Sample: WS121
Contract Ref: 562943	Start: 16.04.19 End: 16.04.19	Ground Level (m AOD): 27.71	National Grid Co-ordinate: E:531511.0 N:120961.6	Sheet: 4 of 4

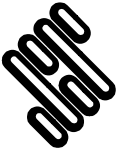
WS121: Post drilling



Method Used:	Tracked window sampling	Plant Used:	Dando Terrier	Drilled By:	Oakland SI	Logged By:	O Jinadu	Checked By:	AGS
--------------	-------------------------	-------------	---------------	-------------	------------	------------	----------	-------------	-----

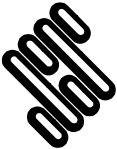
STANDPIPE SUMMARY TABLE

Exploratory Position ID	Pipe ref/ Caption	Ground Level	Length of Pipe (m)	Response Zone Top (m)	Response Zone Base (m)	Slotted Pipe Top (m)	Slotted Pipe Base (m)	Pipe Internal Diameter (mm)	Remarks
BH101	Deep	29.82	9.00	3.00	9.00	3.00	9.00	50	
BH102	Shallow	27.11	2.50	1.00	2.50	1.00	2.50	19	
BH102	Deep	27.11	9.00	3.00	9.00	3.00	9.00	50	
BH103	Shallow	26.33	2.50	1.00	2.50	1.00	2.50	19	
BH103	Deep	26.33	9.00	3.00	9.00	3.00	9.00	50	
BH105	Shallow	32.28	2.50	1.00	2.50	1.00	2.50	19	
BH105	Deep	32.28	9.00	3.00	9.00	3.00	9.00	50	
BH106	Shallow	30.88	1.50	0.50	1.50	0.50	1.50	19	
BH106	Deep	30.88	9.00	3.00	9.00	3.00	9.00	50	
WS101	1	29.21	1.50	0.50	1.50	0.50	1.50	50	
WS105	1	28.77	2.00	1.00	2.00	1.00	2.00	50	

	Compiled By		Date	Contract Ref: 562943
		SOFARRELL	12.06.19	
	Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI			Page: 1 of 2 

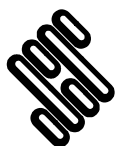
STANDPIPE SUMMARY TABLE

Exploratory Position ID	Pipe ref/ Caption	Ground Level	Length of Pipe (m)	Response Zone Top (m)	Response Zone Base (m)	Slotted Pipe Top (m)	Slotted Pipe Base (m)	Pipe Internal Diameter (mm)	Remarks
WS112	1	29.63	1.50	0.50	1.50	0.50	1.50	50	
WS114	1	34.20	2.00	1.00	2.00	1.00	2.00	50	
WS116	1	34.07	2.00	1.00	2.00	1.00	2.00	50	
WS117	1	28.47	1.90	0.90	1.90	0.90	1.90	50	
WS118	1	28.42	2.80	1.00	2.80	1.00	2.80	50	
WS121	1	27.71	1.50	1.00	1.50	1.00	1.50	50	

	Compiled By		Date	Contract Ref: 562943
		SOFARRELL	12.06.19	
	Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI			Page: 2 of 2 

APPENDIX C - IN-SITU TESTING

- (i) Standard Penetration Test (SPT) Summary Sheet
- (ii) SPT N value versus Depth / Elevation Plot
- (iii) Soakaway Test Results
- (iv) TRL Dynamic Cone Penetration Test Results



STANDARD PENETRATION TEST SUMMARY TABLE

Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI				Client: Homes England			Contract ref: 562943
Exploratory Position ID	Depth (m)	Seating Drive		Test Drive			Comments
		Blows	Pen (mm)	Blows	R (mm)	Result	
BH101	1.20	1,2	150	4,9,6,3		N=22	
	2.20	13,12	80	50+	10	13,12/50	
						for 10mm	
	4.00	17,8	78	31,19+	100	17,8/31,19	
						for 25mm	
	5.50	21,4	78	22,28+	120	21,4/22,28	
						for 45mm	
	7.00	25	10	37,13	150	25/37,13	
						for 75mm	
	8.50	11,14	110	38,12+	90	11,14/38,12	
						for 15mm	
	10.00	17,8	80	30,20+	100	17,8/30,20	
						for 25mm	
	13.00	25	15	41,9+	78	25/41,9	
						for 3mm	
	16.00	25	20	39,11+	85	25/39,11	
						for 10mm	
	19.00	21,4	77	36,14+	85	21,4/36,14	
						for 10mm	
BH102	1.20	6,11	150	8,9,13,15		N=45	
	3.00	9,11	150	14,20,18,19		N=71	
	4.50	11,10	150	14,17,21,30		N=82	
	6.00	19,6	80	31,19+	95	19,6/31,19	
						for 20mm	
	7.50	17,8	90	50+	45	17,8/50	
						for 45mm	
	9.00	19,6	83	50+	15	19,6/50	
						for 15mm	
	10.50	14,11	150	18,22,10+	195	14,11/18,22,10	
						for 45mm	
	13.50	21,4	78	27,23+	115	21,4/27,23	
						for 40mm	

Notes:

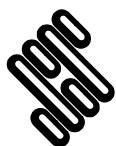
1. Tests carried out in general accordance with BS EN ISO 22476-3:2005

2. Reported blows are for 75mm penetration unless indicated "+".

3. Where full test drive was not achieved, actual penetration (R) and total test drive blows are reported.

4. Tests carried out using a split spoon sampler unless noted as SPT(c) (denotes use of solid cone method) in the comments column.





STANDARD PENETRATION TEST SUMMARY TABLE

Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI				Client: Homes England			Contract ref: 562943
Exploratory Position ID	Depth (m)	Seating Drive		Test Drive			Comments
		Blows	Pen (mm)	Blows	R (mm)	Result	
BH102	16.50	25	10	50+	30	25/50	
						for 30mm	
	19.50	19,6	78	29,21+	105	19,6/29,21	
						for 30mm	
BH103	1.80	3,5	150	6,9,10,10		N=35	
	3.00	3,5	150	7,7,10,12		N=36	
	4.00	13,12	120	34,16+	118	13,12/34,16	
						for 43mm	
	5.00	10,12	150	14,13,16,7+	242	10,12/14,13,16,7	SPT(c)
						for 17mm	
	6.20	16,9	95	32,18+	97	16,9/32,18	SPT(c)
						for 22mm	
	7.70	19,6	86	44,6+	82	19,6/44,6	SPT(c)
						for 7mm	
	9.20	20,5	86	40,10+	89	20,5/40,10	SPT(c)
						for 14mm	
	12.20	23,2	79	48,2+	77	23,2/48,2	SPT(c)
						for 2mm	
BH104	1.20	1,0	150	0,0,0,1		N=1	
	2.20	1,0	150	0,0,0,0		N=0	
	3.20	6,6	150	7,6,8,14		N=35	
	4.00	12,13	85	21,37,42+	185	12,13/21,37,42	
						for 35mm	
	5.00	6,7	150	9,9,18,19		N=55	
	6.50	9,12	150	16,17,11,12		N=56	
	8.00	25	10	19,14,29,33		N=95	
	9.50	21,4	80	17,19,31,37		N=104	
	12.50	17,8	85	14,17,21,34		N=86	
	14.00	16,9	85	14,17,19,34		N=84	
	17.00	14,11	150	17,19,24,27		N=87	
BH105	1.20	2,7	150	11,14,17,8+	240	2,7/11,14,17,8	

Notes:

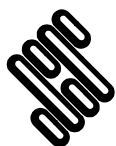
1. Tests carried out in general accordance with BS EN ISO 22476-3:2005

2. Reported blows are for 75mm penetration unless indicated "+".

3. Where full test drive was not achieved, actual penetration (R) and total test drive blows are reported.

4. Tests carried out using a split spoon sampler unless noted as SPT(c) (denotes use of solid cone method) in the comments column.





STANDARD PENETRATION TEST SUMMARY TABLE

Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI				Client: Homes England			Contract ref: 562943
Exploratory Position ID	Depth (m)	Seating Drive		Test Drive			Comments
		Blows	Pen (mm)	Blows	R (mm)	Result	
						for 15mm	
	2.00	11,14	150	20,27,3+	153	11,14/20,27,3	
						for 3mm	
	3.00	5,7	150	8,18,24+	191	5,7/8,18,24	
						for 41mm	
	4.00	5,5	150	12,38+	135	5,5/12,38	
						for 60mm	
	5.00	3,20	150	50+	62	3,20/50	
						for 62mm	
	6.30	17,8	104	39,11+	87	17,8/39,11	SPT(c)
						for 12mm	
	7.60	2,3	150	9,41+	122	2,3/9,41	SPT(c)
						for 47mm	
	8.90	23,2	78	50+	39	23,2/50	SPT(c)
						for 39mm	
	10.40	25	61	50+	41	25/50	SPT(c)
						for 41mm	
	11.90	25	47	46,4+	80	25/46,4	SPT(c)
						for 5mm	
	13.40	25	51	48,2+	77	25/48,2	SPT(c)
						for 2mm	
BH106	1.20	3,6	150	4,4,3,4		N=15	
	2.50	11,14	140	22,28+	115	11,14/22,28	
						for 40mm	
	3.50	5,20	100	50+	15	5,20/50	
						for 15mm	
	5.00	5,10	150	20,30+	90	5,10/20,30	
						for 15mm	
	6.00	7,18	135	24,26+	115	7,18/24,26	
						for 40mm	
	8.00	9,16	115	31,19+	95	9,16/31,19	
						for 20mm	

Notes:

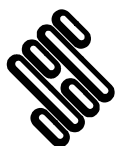
1. Tests carried out in general accordance with BS EN ISO 22476-3:2005

2. Reported blows are for 75mm penetration unless indicated "+".

3. Where full test drive was not achieved, actual penetration (R) and total test drive blows are reported.

4. Tests carried out using a split spoon sampler unless noted as SPT(c) (denotes use of solid cone method) in the comments column.





STANDARD PENETRATION TEST SUMMARY TABLE

Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI				Client: Homes England			Contract ref: 562943
Exploratory Position ID	Depth (m)	Seating Drive		Test Drive			Comments
		Blows	Pen (mm)	Blows	R (mm)	Result	
BH106	9.50	10,14	150	21,20,9+	160	10,14/21,20,9	
						for 10mm	
	11.00	17,8	85	23,27+	125	17,8/23,27	
						for 50mm	
	14.00	21,4	78	27,23+	135	21,4/27,23	
						for 60mm	
WS101	1.20	8,10	80	6,10,7	225	8,10/6,10,7	
						for 75mm	
	1.70	7,12	89	13,19,34	225	7,12/13,19,34	
						for 75mm	
WS103	1.20	1,4	150	5,6,9,6		N=26	
	2.00	7,11	150	6,6,8,12		N=32	
	2.55	5,12	150	28,39+	142	5,12/28,39	
						for 67mm	
WS104	1.20	2,4	150	2,3,4,5		N=14	
	2.00	3,6	150	8,11,19,26		N=64	
WS105	1.20	3,3	78	5,5,5	225	3,3/5,5,5	
						for 75mm	
	2.00	7,12	89	15,18,16	225	7,12/15,18,16	
						for 75mm	
WS106	1.20	3,5	80	46,7	150	3,5/46,7	
						for 75mm	
	2.00	7,10	90	13,22,24	225	7,10/13,22,24	
						for 75mm	
WS107	1.20	8,10	150	10,9,11,19		N=49	
	1.90	7,20	150	21,20,35	225	7,20/21,20,35	
						for 75mm	
WS108	1.20	1,4	80	6,6,5	225	1,4/6,6,5	
						for 75mm	
	2.00	3,9	90	16,15,16	225	3,9/16,15,16	
						for 75mm	

Notes:

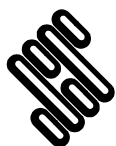
1. Tests carried out in general accordance with BS EN ISO 22476-3:2005

2. Reported blows are for 75mm penetration unless indicated "+".

3. Where full test drive was not achieved, actual penetration (R) and total test drive blows are reported.

4. Tests carried out using a split spoon sampler unless noted as SPT(c) (denotes use of solid cone method) in the comments column.





STANDARD PENETRATION TEST SUMMARY TABLE

Contract: HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI				Client: Homes England			Contract ref: 562943
Exploratory Position ID	Depth (m)	Seating Drive		Test Drive			Comments
		Blows	Pen (mm)	Blows	R (mm)	Result	
WS110	1.20	2,3	150	4,5,6,6		N=21	
	2.00	4,8	150	7,8,11,15		N=41	
	2.60	11,11	150	10,13,13,15		N=51	
WS111	1.20	2,2	150	7,22	150	2,2/7,22	
						for 75mm	
WS112	1.20	4,7	150	6,9,18,32+	290	4,7/6,9,18,32	
						for 65mm	
	1.65	14,21	150	28,32	150	14,21/28,32	
						for 75mm	
WS113	1.20	1,2	150	3,6,9,21		N=39	
	1.60	5,24	150	30,41	150	5,24/30,41	
						for 75mm	
WS114	1.20	4,3	150	3,4,5,4		N=16	
	2.00	7,10	150	18,33,50+	200	7,10/18,33,50	
						for 50mm	
WS116	1.20	2,3	150	4,5,5,5		N=19	
	2.00	10,13	150	15,19,22,30		N=86	
WS117	1.20	2,5	150	8,8,8,8		N=32	
	1.90	8,8	150	12,14,13,14		N=53	
WS118	1.20	2,5	150	5,7,8,8		N=28	
	2.00	4,6	150	8,8,10,13		N=39	
	2.80	5,9	150	10,15,15,14		N=54	
WS120	1.20	2,2	150	2,3,5,12		N=22	
	2.00	3,8	150	19,10,10,9		N=48	
	2.40	7,8	150	13,13,15,13		N=54	
WS121	1.20	2,3	150	4,4,4,5		N=17	
WS121	2.00	4,7	150	10,18,21,28		N=77	

Notes:

1. Tests carried out in general accordance with BS EN ISO 22476-3:2005

2. Reported blows are for 75mm penetration unless indicated "+".

3. Where full test drive was not achieved, actual penetration (R) and total test drive blows are reported.

4. Tests carried out using a split spoon sampler unless noted as SPT(c) (denotes use of solid cone method) in the comments column.





STANDARD PENETRATION TEST SUMMARY TABLE

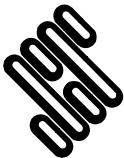
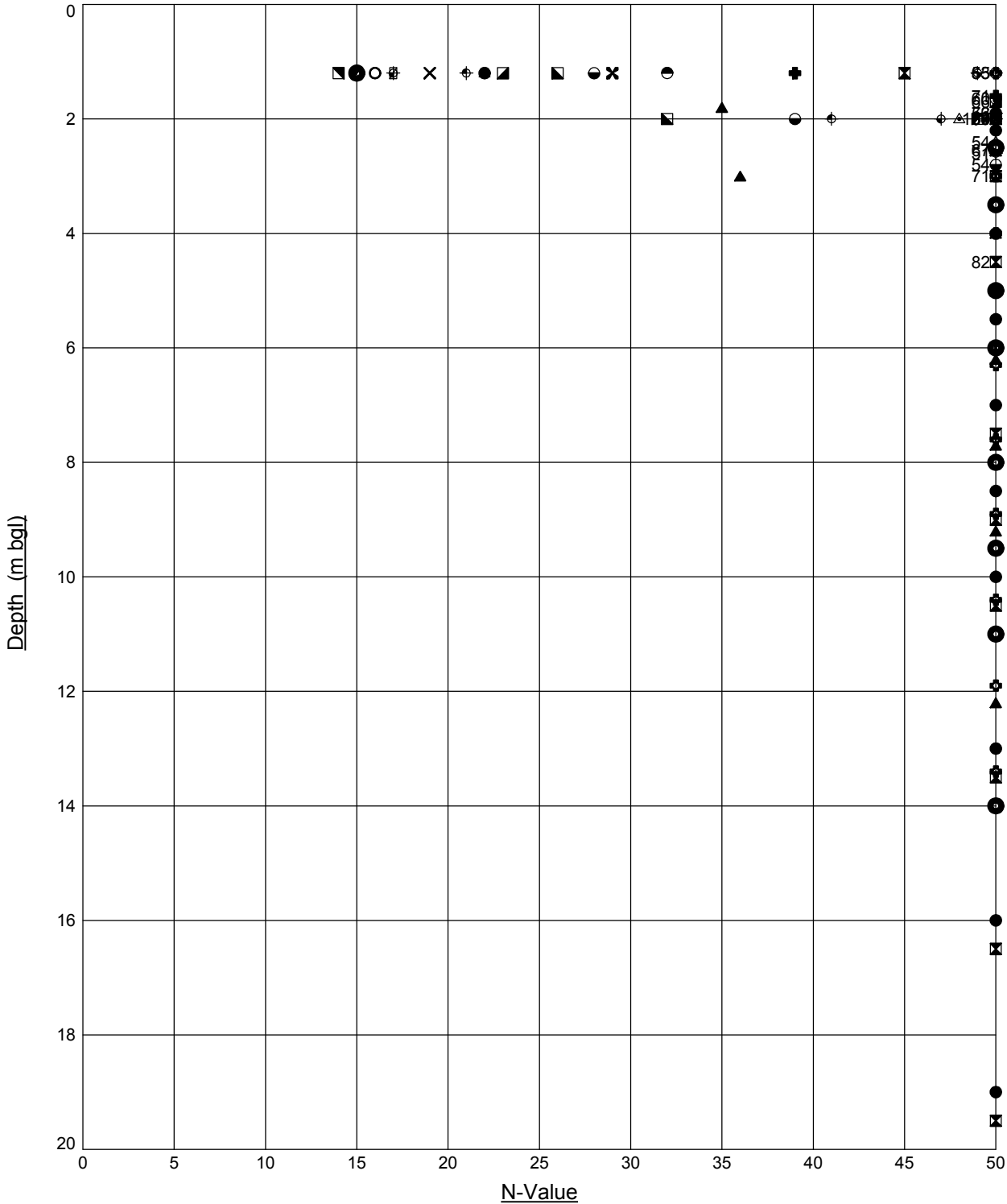
[illegible]

Notes:

- Notes:
1. Tests carried out in general accordance with BS EN ISO 22476-3:2005
 2. Reported blows are for 75mm penetration unless indicated "+".
 3. Where full test drive was not achieved, actual penetration (R) and total test drive blows are reported.
 4. Tests carried out using a split spoon sampler unless noted as SPT(c) (denotes use of solid cone method) in the comments column.



STANDARD PENETRATION TEST (SPT N-Value) vs DEPTH



Contract

HE Northern Arc, Burgess Hill -
Freckes Farm & Link Road GI

Client

Homes England

Date

12.06.19

Compiled By

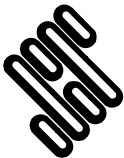
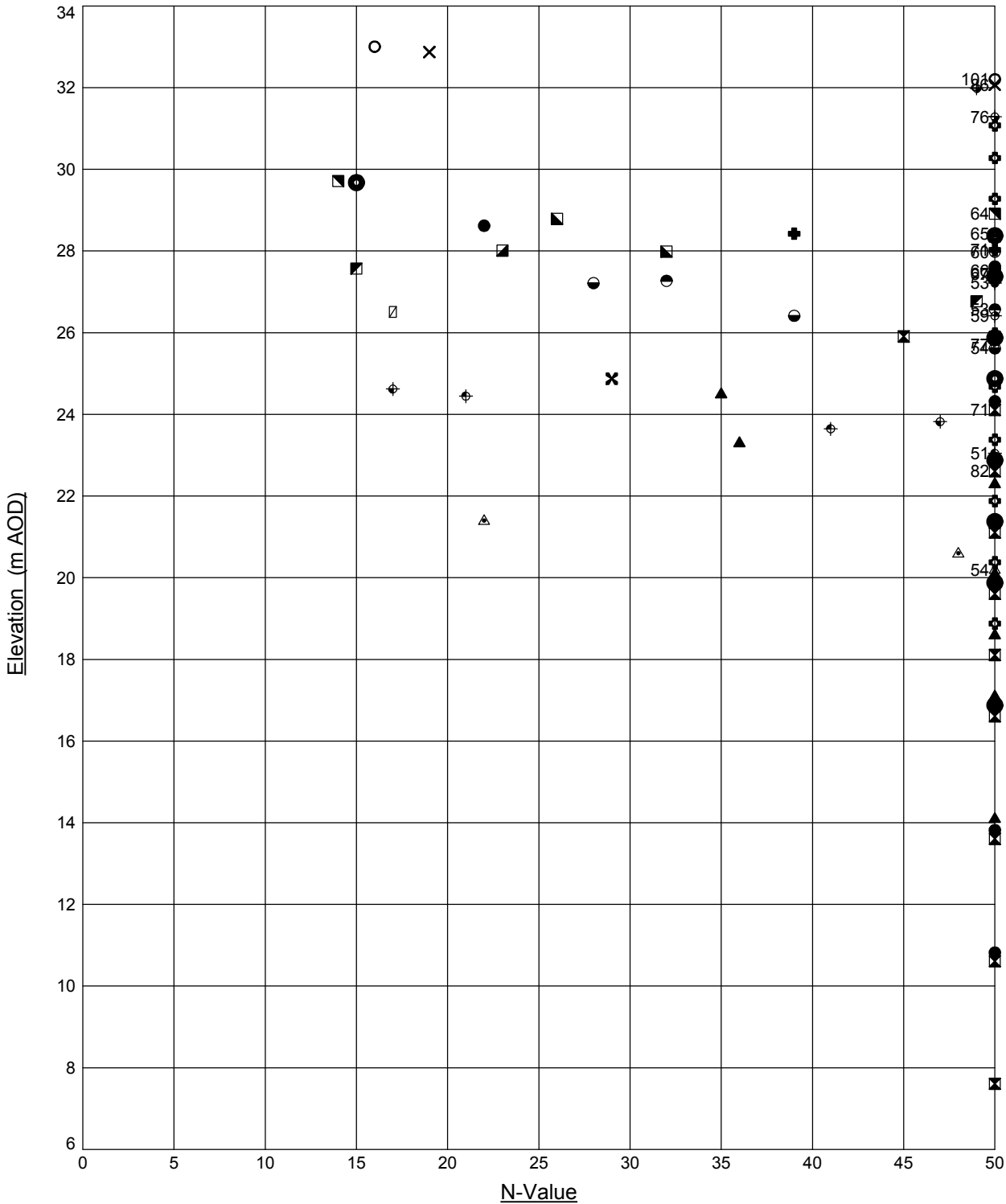
SOF

Contract Ref:

562943



STANDARD PENETRATION TEST (SPT N-Value) vs ELEVATION



Contract

**HE Northern Arc, Burgess Hill -
Freck's Farm & Link Road GI**

Client

Homes England

Date

12.06.19

Compiled By

SOF

Contract Ref:

562943



FULL SCALE SOAKAWAY TEST

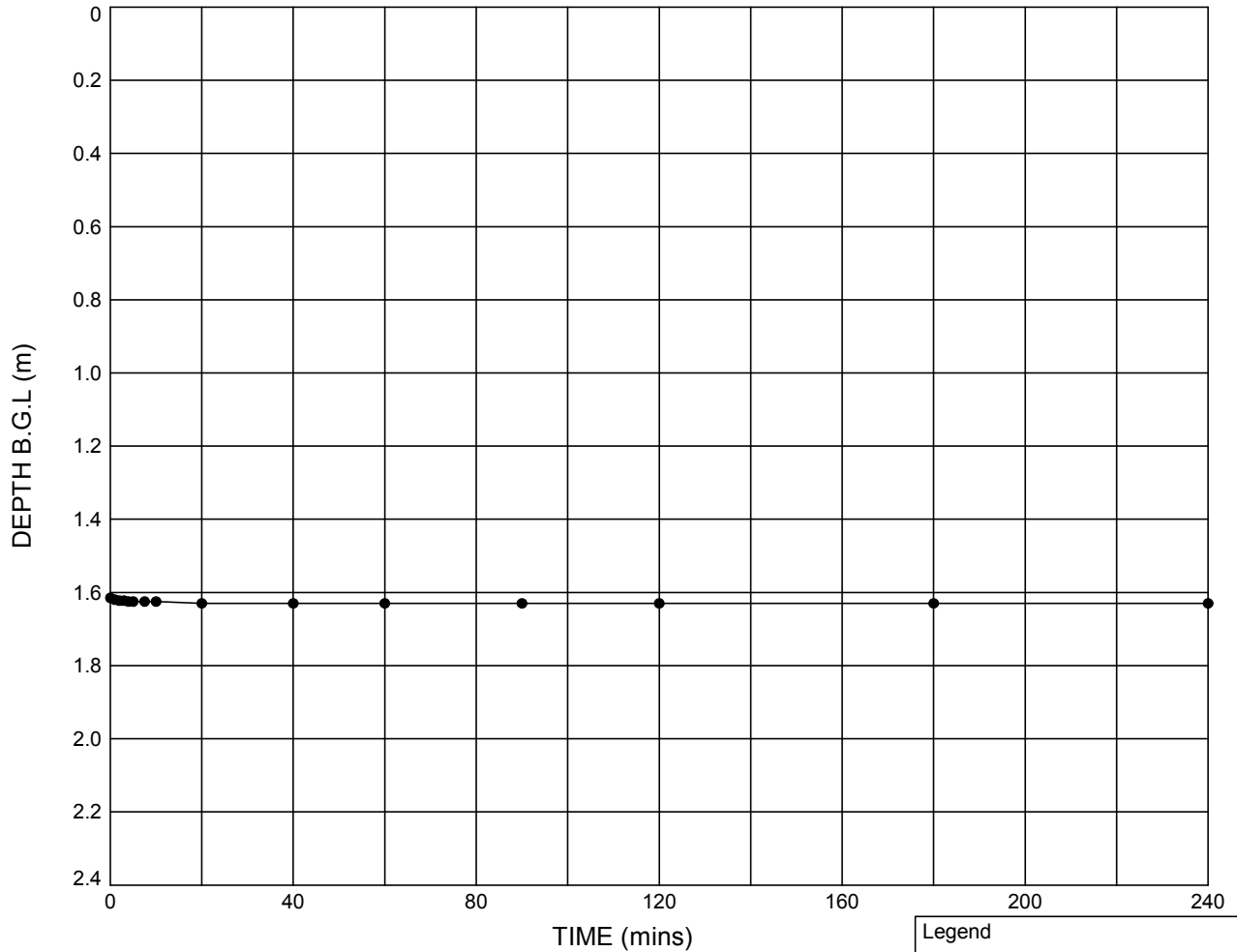
Non-standard test

Soakaway Test - Position ID : **TP101**

Ground Level (m AOD): **29.89**

National Grid Co-ordinates: **E:531353.4 N:120290.5**

PLOT OF DEPTH OF WATER BELOW GROUND LEVEL AGAINST TIME



Test 1

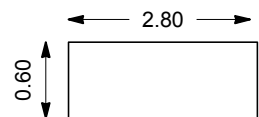
Pit start depth: = **2.40** m
Pit final depth: = **2.26** m
Effective depth, D_e = **0.65** m
Effective storage volume, V_{p75-25} = **0.5418** m³
Surface area, a_{p50} = **3.8730** m²
Time, t_{p75-25} = **N/A** secs
Infiltration rate, f = **N/A** m/s

Notes: Test 1 - Unable to calculate infiltration rate due to insufficient drop in water level.

Legend

● Test 1 (11.04.19)

Plan (Not to scale)



No Bearing Taken



STRUCTURAL SOILS
18 Frogmore Road
Hemel Hempstead
Hertfordshire
HP3 9RT

Compiled By

Date

Checked By

Date

13/06/19

S. Philp

1006/10

Contract

**HE Northern Arc, Burgess Hill -
Freeks Farm & Link Road GI**

Contract Ref:

562943

FULL SCALE SOAKAWAY TEST

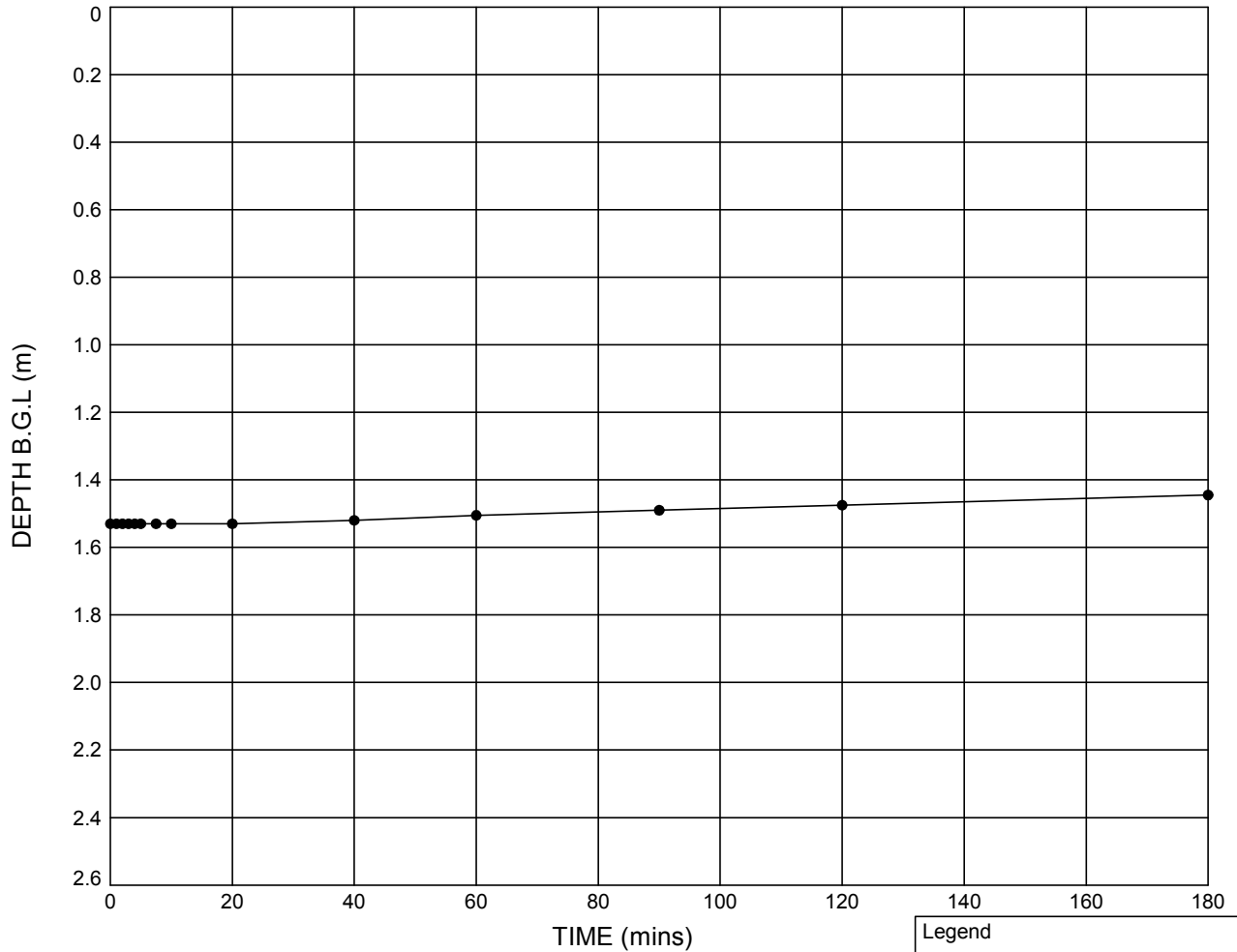
Non-standard test

Soakaway Test - Position ID : **TP105**

Ground Level (m AOD): **27.32**

National Grid Co-ordinates: **E:531330.5 N:120653.9**

Plot of Depth of Water Below Ground Level Against Time



Test 1

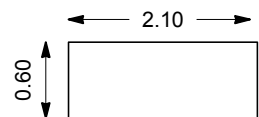
Pit start depth: = **2.50** m
 Pit final depth: = **2.40** m
 Effective depth, D_e = **0.87** m
 Effective storage volume, V_{p75-25} = **0.5481** m³
 Surface area, a_{p50} = **3.6090** m²
 Time, t_{p75-25} = **N/A** secs
 Infiltration rate, f = **N/A** m/s

Notes: Test 1 - Unable to calculate infiltration rate due to rising water.

Legend

● Test 1 (10.04.19)

Plan (Not to scale)



No Bearing Taken



STRUCTURAL SOILS
 18 Frogmore Road
 Hemel Hempstead
 Hertfordshire
 HP3 9RT

Compiled By

Date

Checked By

Date

13/06/19

1006/10

Contract

Contract Ref:

**HE Northern Arc, Burgess Hill -
 Freeks Farm & Link Road GI**

562943

FULL SCALE SOAKAWAY TEST

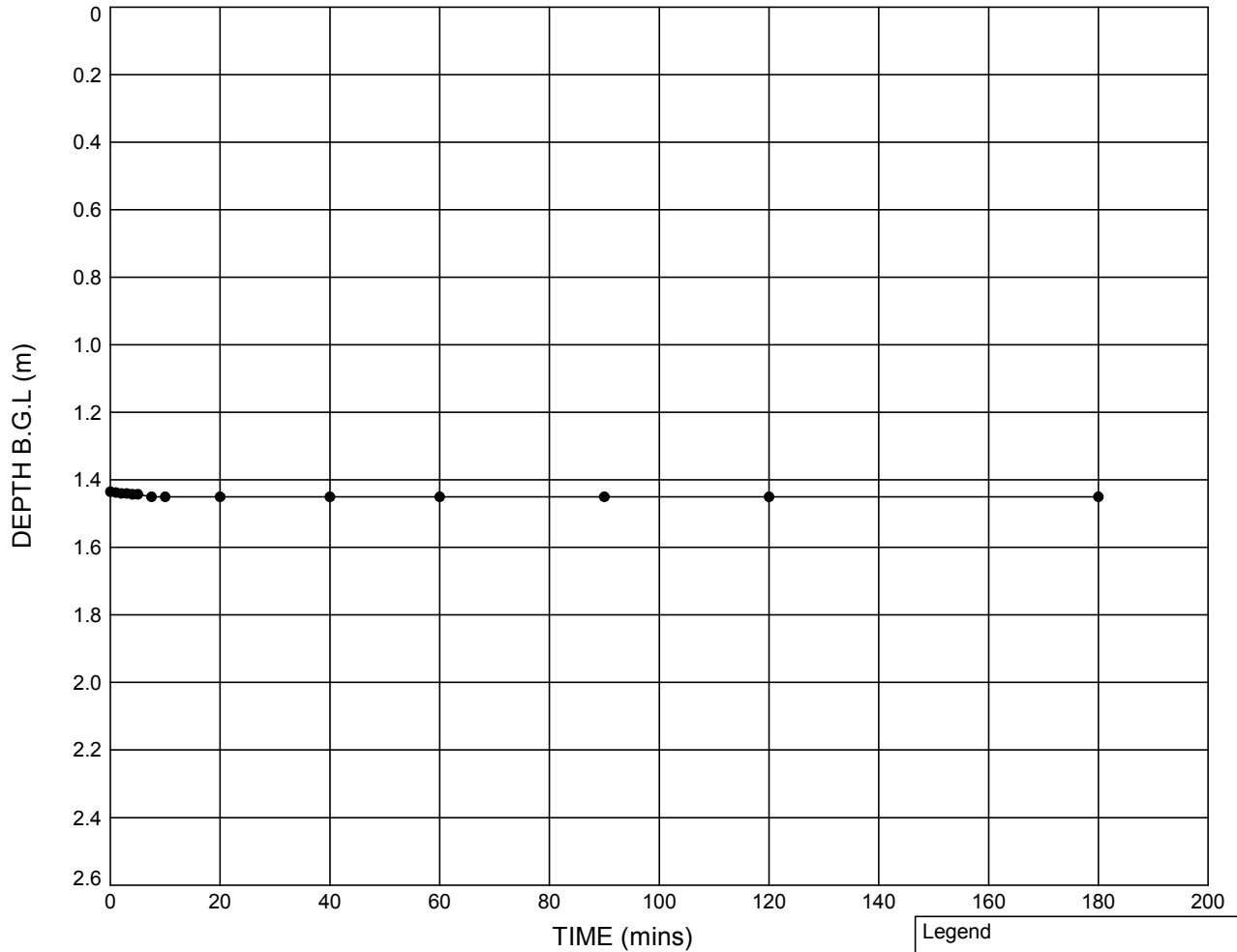
Non-standard test

Soakaway Test - Position ID : **TP116**

Ground Level (m AOD): **26.97**

National Grid Co-ordinates: **E:531517.9 N:121009.1**

PLOT OF DEPTH OF WATER BELOW GROUND LEVEL AGAINST TIME



Test 1

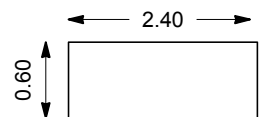
Pit start depth: = **2.60** m
Pit final depth: = **2.40** m
Effective depth, D_e = **0.97** m
Effective storage volume, V_{p75-25} = **0.6948** m³
Surface area, a_{p50} = **4.3350** m²
Time, t_{p75-25} = **N/A** secs
Infiltration rate, f = **N/A** m/s

Notes: Test 1 - Unable to calculate infiltration rate due to insufficient drop in water level.

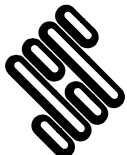
Legend

● Test 1 (10.04.19)

Plan (Not to scale)



No Bearing Taken



Compiled By

Date

Checked By

Date

29/05/19

□□□□/□□

Contract

Contract Ref:

**HE Northern Arc, Burgess Hill -
Freeks Farm & Link Road GI**

562943

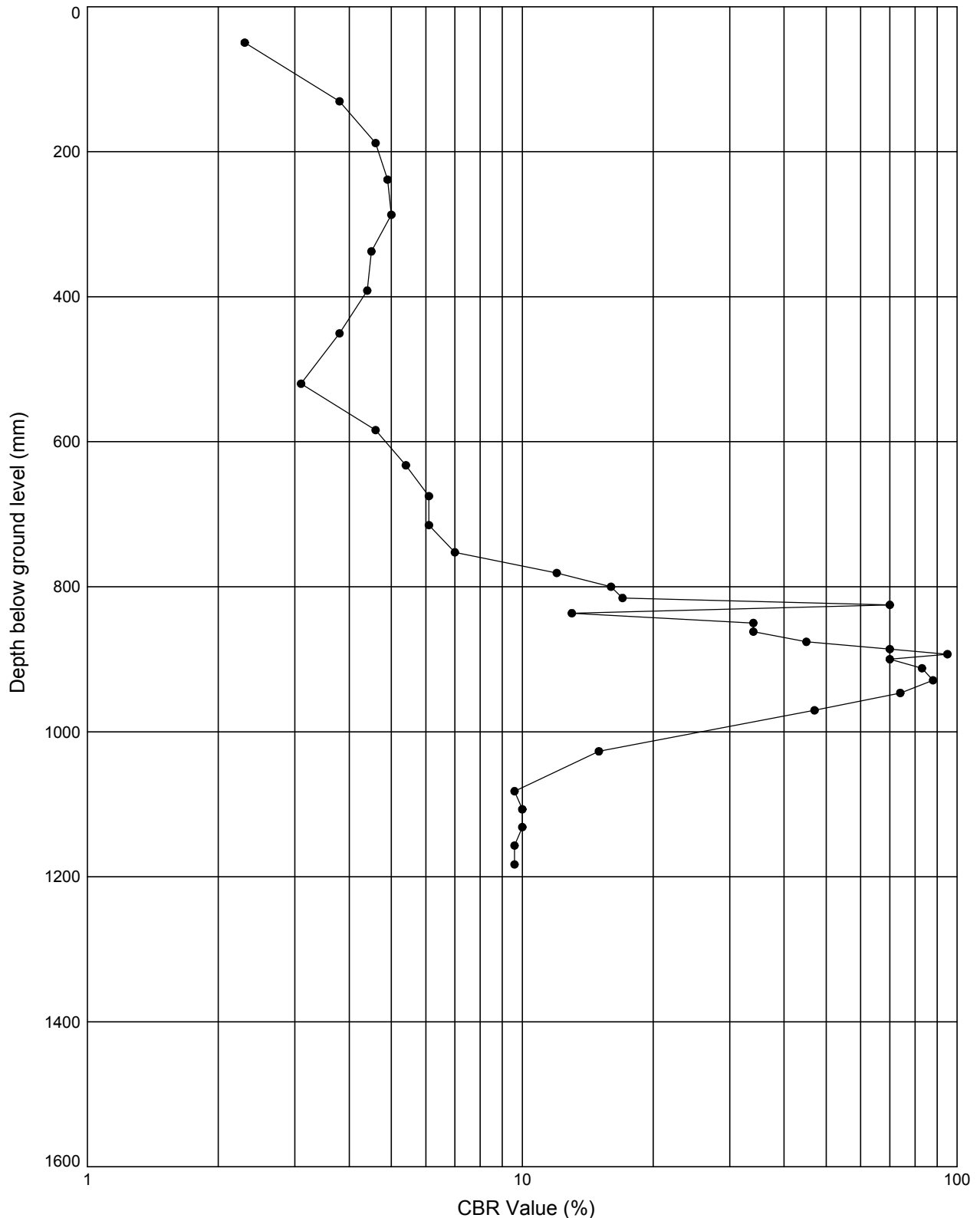
DCP TEST RESULTS - DEPTH vs CBR VALUE

Position Ref : **TRL101**

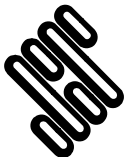
Test Date : **11.04.19**

Ground Level (m AOD): **29.89**

National Grid Co-ordinates: **E:531353.4 N:120290.5**



Notes: CBR values calculated after TRRL Road Note 8 method. Values over 100% are plotted on the 100% line.



Compiled By

Date

Checked By

Date

12/06/19

Contract

**HE Northern Arc, Burgess Hill -
Frees Farm & Link Road GI**

Contract Ref:

562943

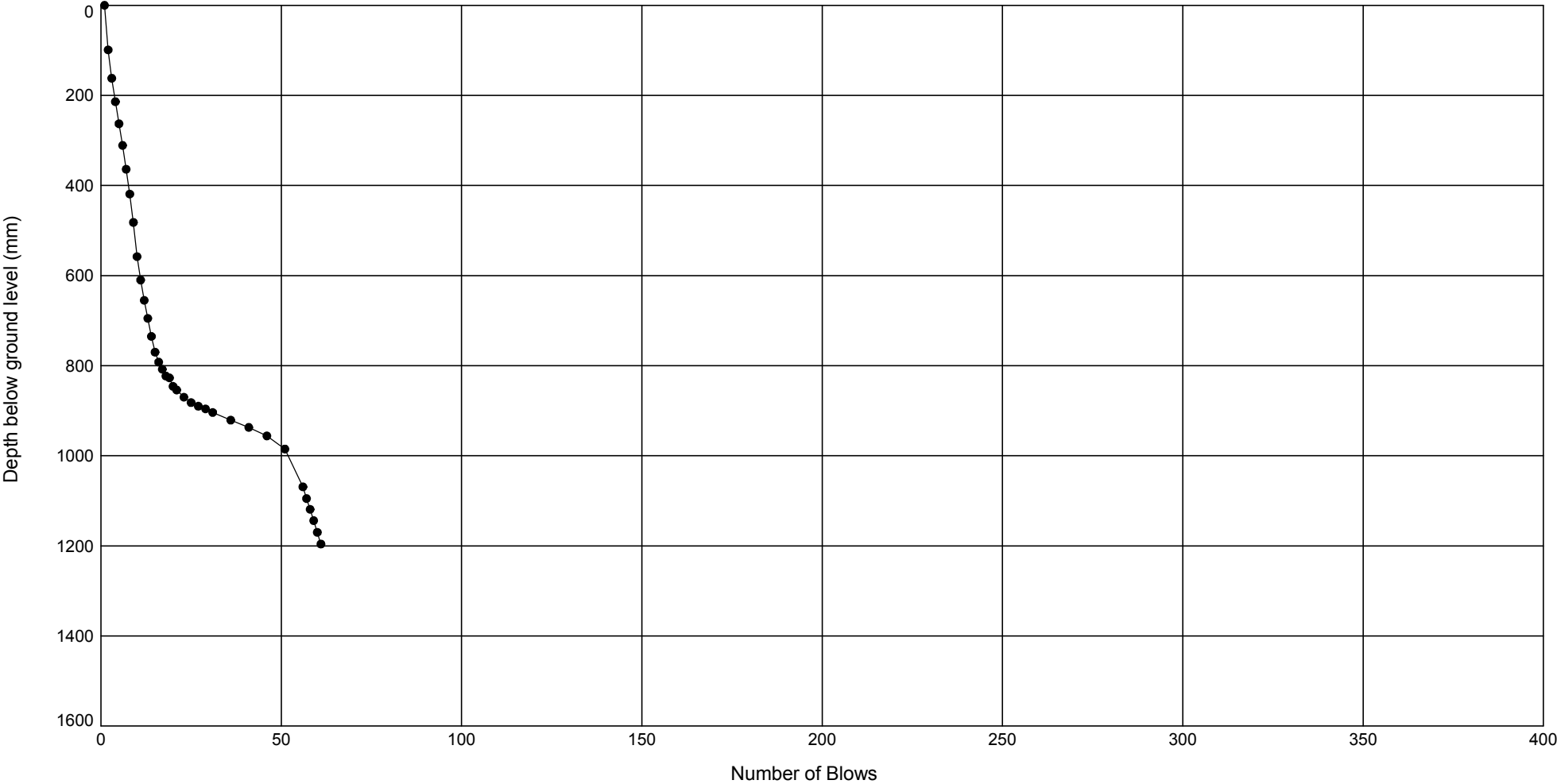
DCP TEST RESULTS - DEPTH vs NUMBER OF BLOWS

Position Ref : **TRL101**

Test Date : **11.04.19**

National Grid Co-ordinates: **E:531353.4 N:120290.5**

Ground Level (m AOD): **29.89**



	Compiled By	Date	Checked By	Date	Contract Ref: 562943
		12/06/19			
	Contract HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI				

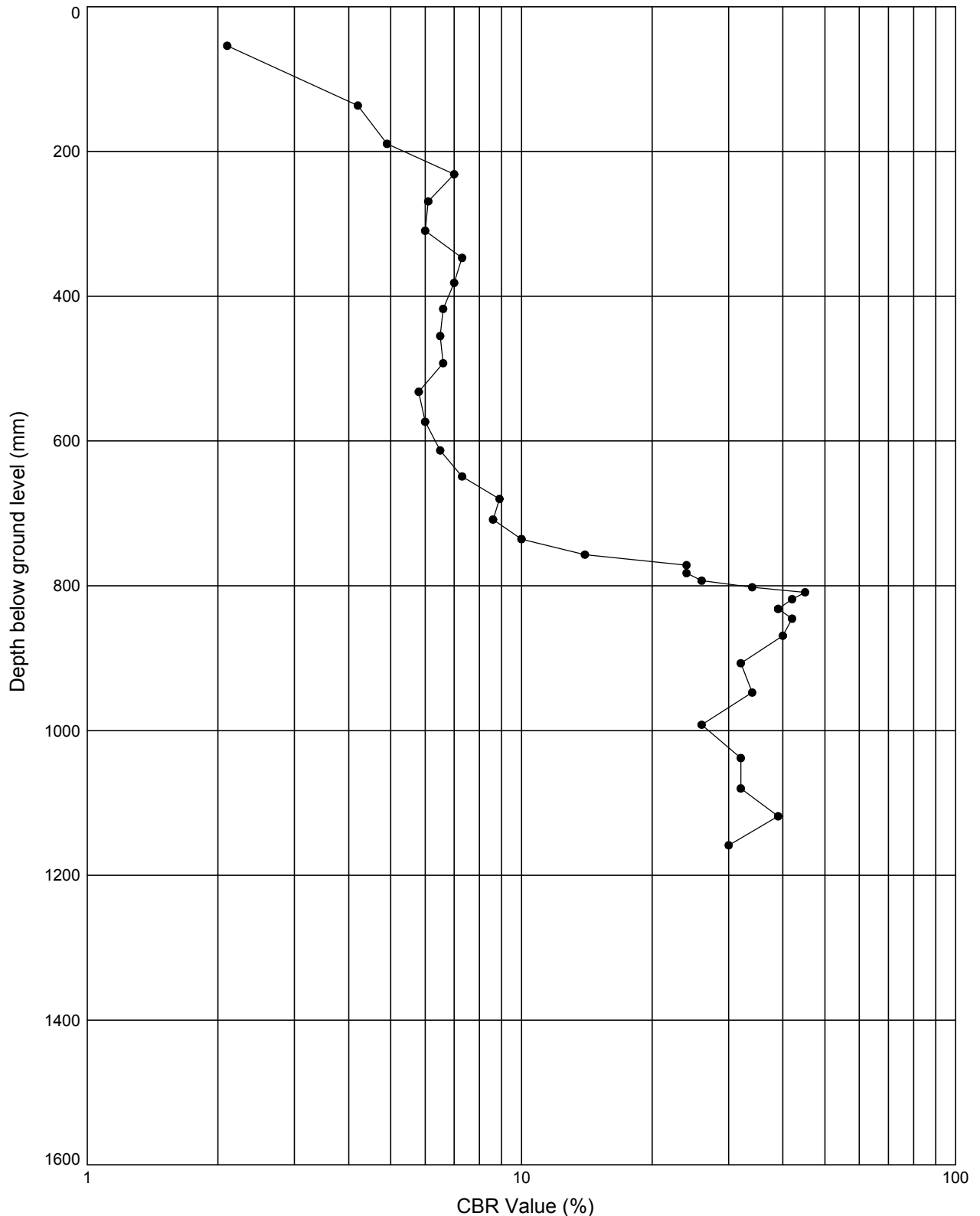
DCP TEST RESULTS - DEPTH vs CBR VALUE

Position Ref : **TRL102**

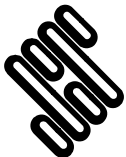
Test Date : **11.04.19**

Ground Level (m AOD): **30.72**

National Grid Co-ordinates: **E:531367.6 N:120315.5**



Notes: CBR values calculated after TRRL Road Note 8 method. Values over 100% are plotted on the 100% line.



Compiled By

Date

Checked By

Date

12/06/19

Contract

**HE Northern Arc, Burgess Hill -
Freeks Farm & Link Road GI**

Contract Ref:

562943

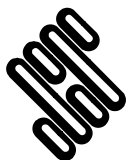
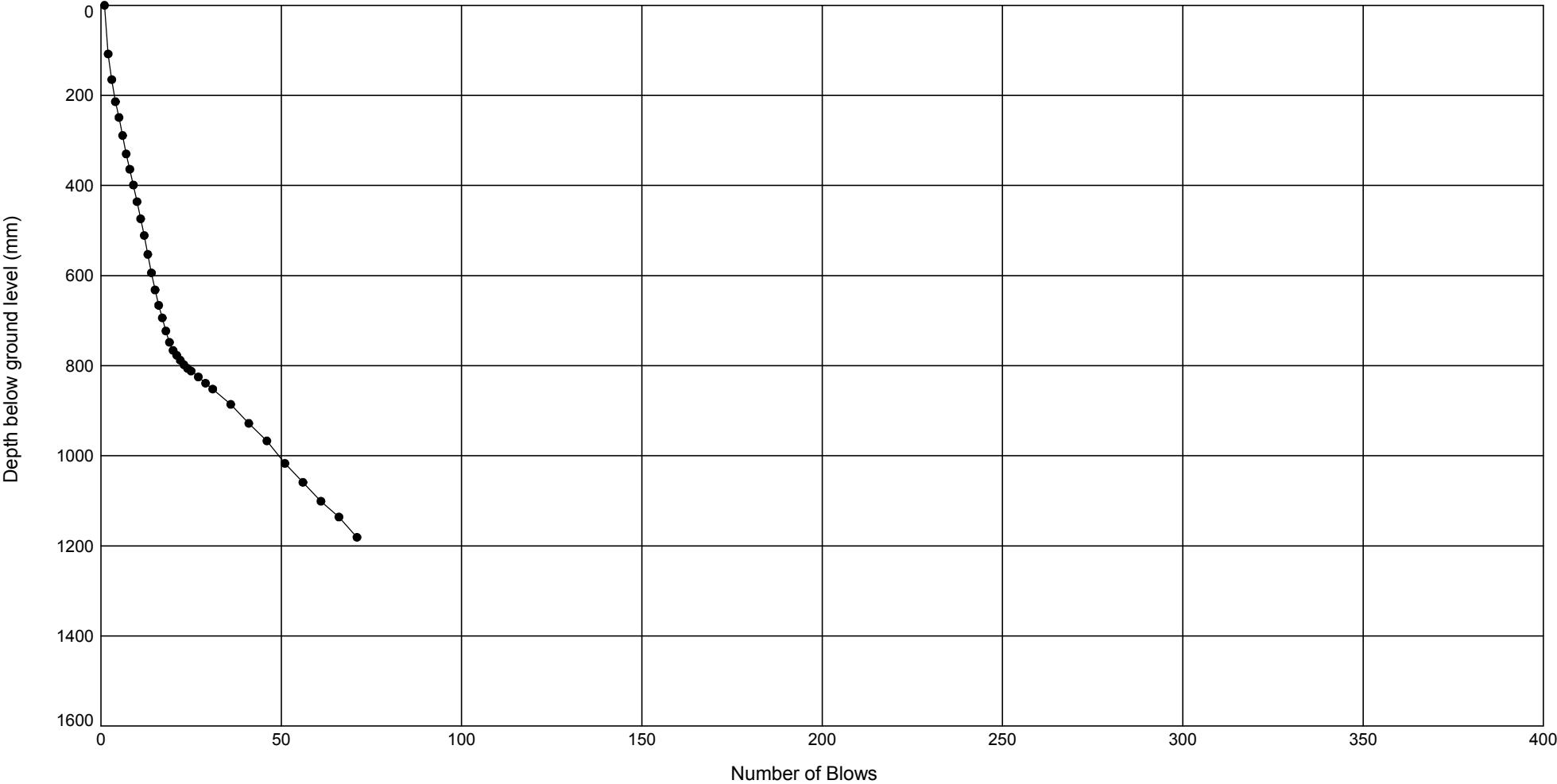
DCP TEST RESULTS - DEPTH vs NUMBER OF BLOWS

Position Ref : **TRL102**

Test Date : **11.04.19**

National Grid Co-ordinates: **E:531367.6 N:120315.5**

Ground Level (m AOD): **30.72**



Compiled By

Date

Checked By

Date

Contract Ref:

12/06/19

Contract

562943

HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI

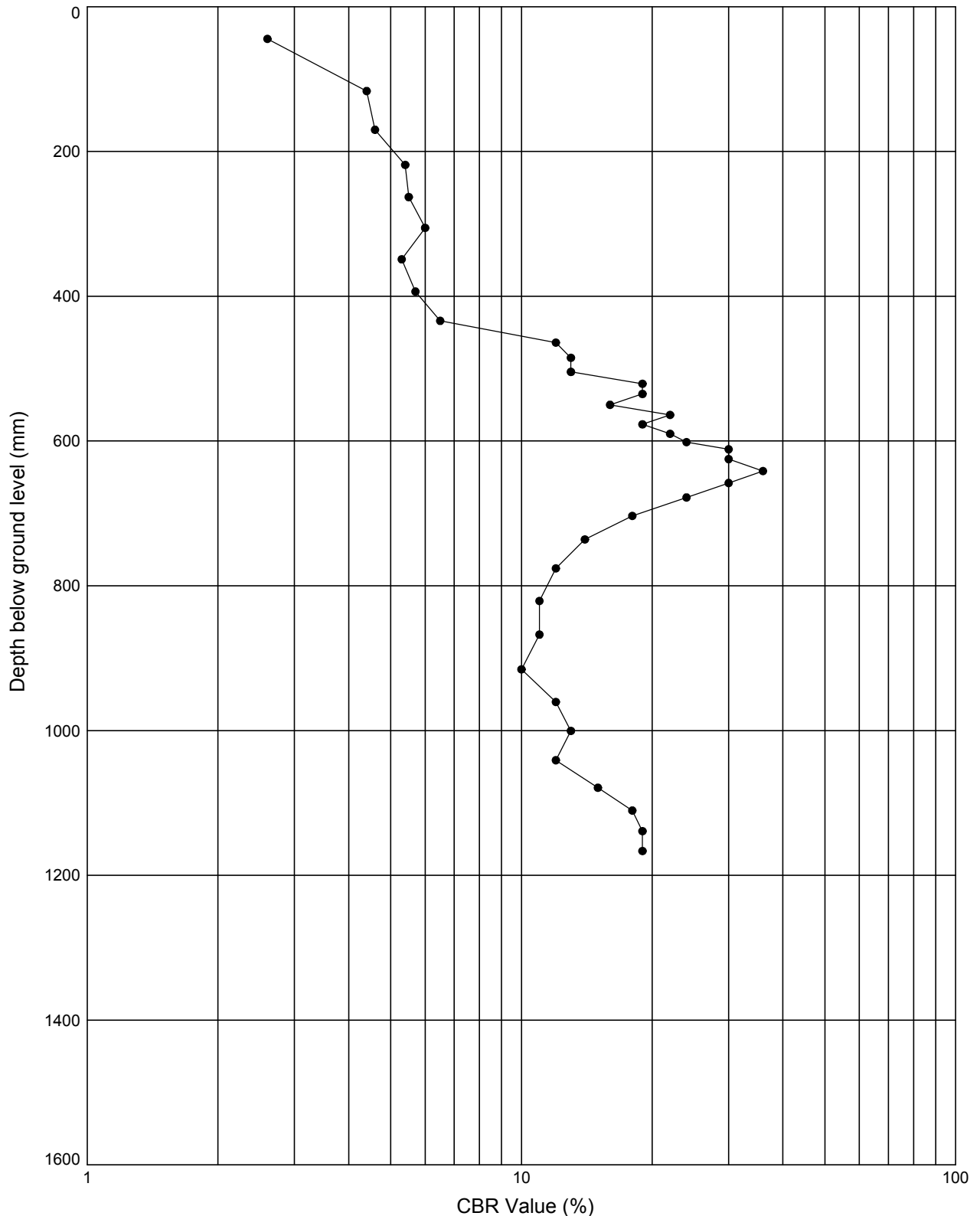
DCP TEST RESULTS - DEPTH vs CBR VALUE

Position Ref : **TRL103**

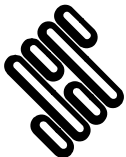
Test Date : **11.04.19**

Ground Level (m AOD): **30.31**

National Grid Co-ordinates: **E:531348.4 N:120391.5**



Notes: CBR values calculated after TRRL Road Note 8 method. Values over 100% are plotted on the 100% line.



Compiled By

Date

Checked By

Date

12/06/19

Contract

**HE Northern Arc, Burgess Hill -
Freeks Farm & Link Road GI**

Contract Ref:

562943

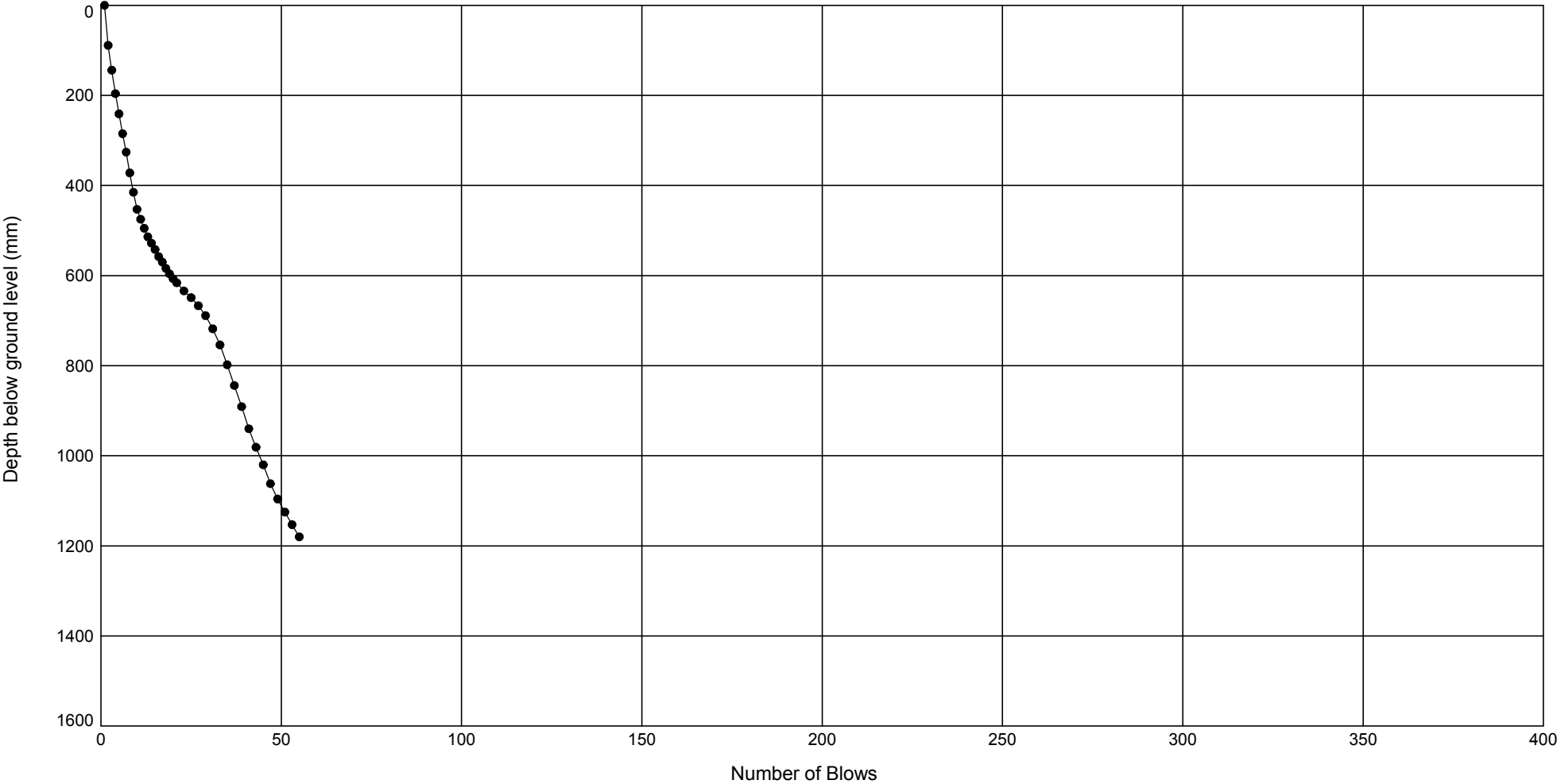
DCP TEST RESULTS - DEPTH vs NUMBER OF BLOWS

Position Ref : **TRL103**

Test Date : **11.04.19**

National Grid Co-ordinates: **E:531348.4 N:120391.5**

Ground Level (m AOD): **30.31**



	Compiled By	Date	Checked By	Date	Contract Ref:
		12/06/19			562943
	Contract				
HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI					

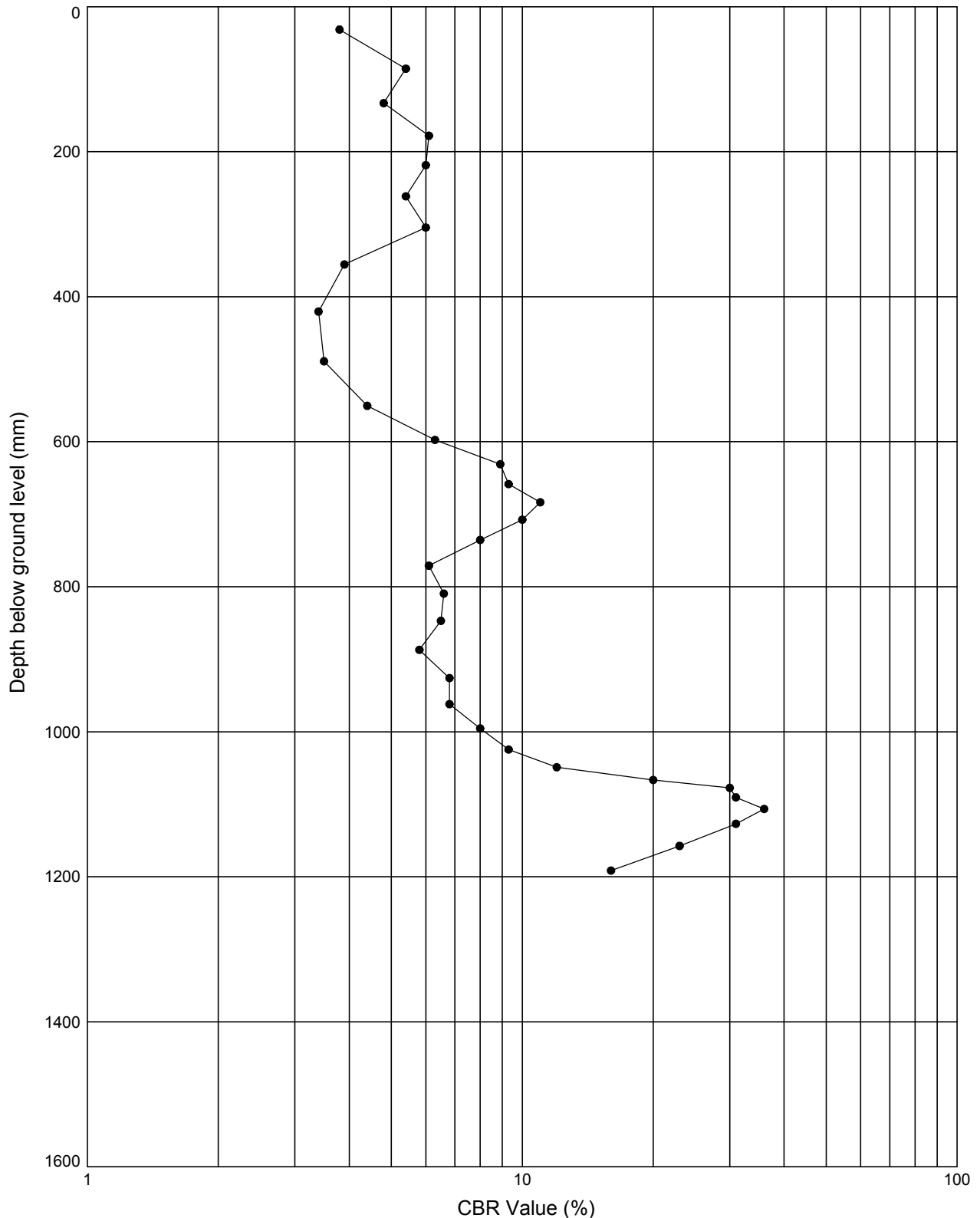
DCP TEST RESULTS - DEPTH vs CBR VALUE

Position Ref : **TRL104**

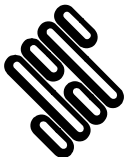
Test Date : **12.04.19**

Ground Level (m AOD): **25.83**

National Grid Co-ordinates: **E:531340.2 N:120576.5**



Notes: CBR values calculated after TRRL Road Note 8 method. Values over 100% are plotted on the 100% line.



Compiled By

Date

Checked By

Date

12/06/19

Contract

**HE Northern Arc, Burgess Hill -
Freeks Farm & Link Road GI**

Contract Ref:

562943

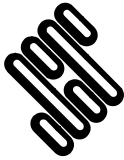
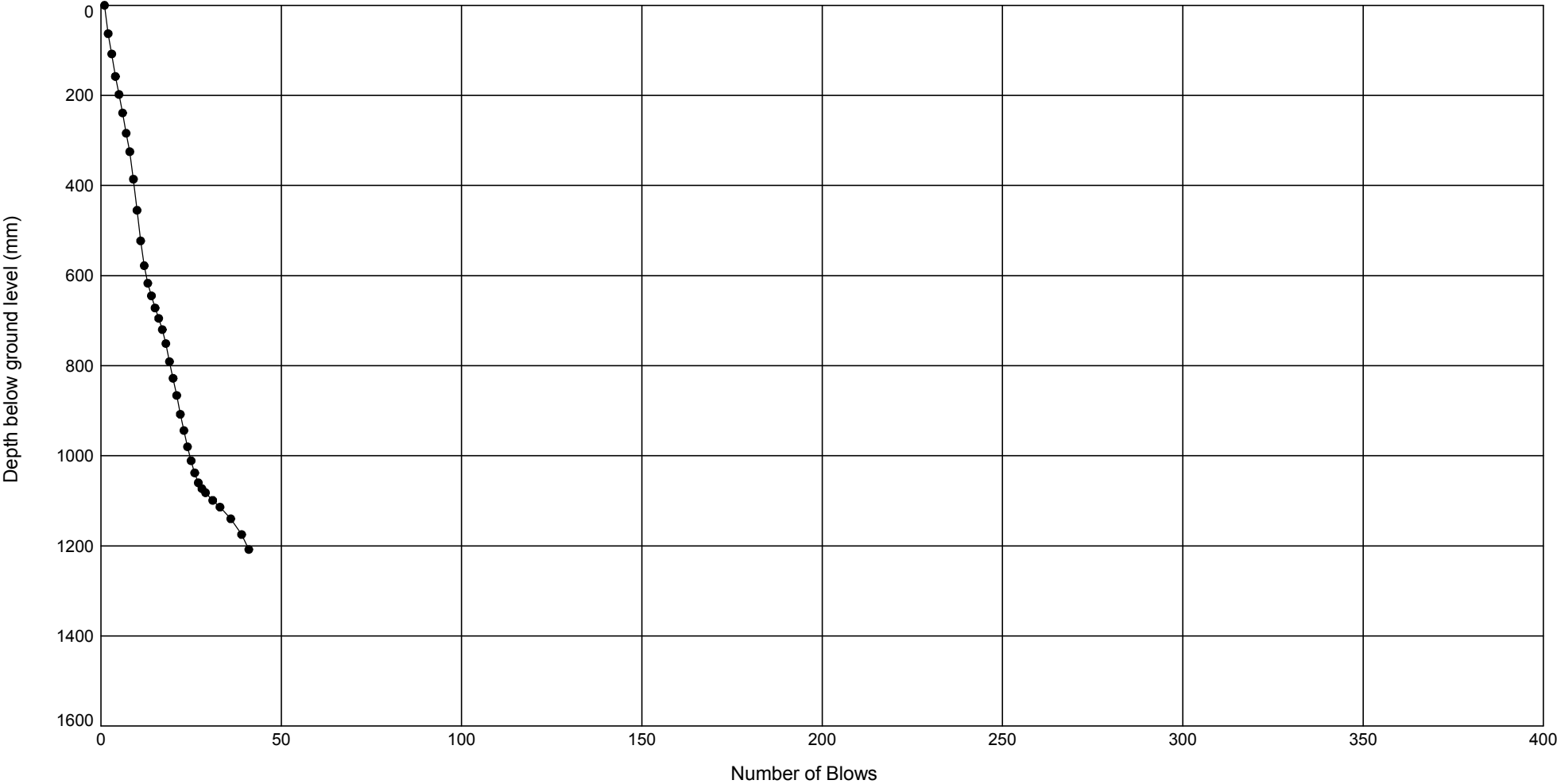
DCP TEST RESULTS - DEPTH vs NUMBER OF BLOWS

Position Ref : **TRL104**

Test Date : **12.04.19**

National Grid Co-ordinates: **E:531340.2 N:120576.5**

Ground Level (m AOD): **25.83**



Compiled By	Date	Checked By	Date	Contract Ref: 562943
	12/06/19			
Contract HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI				

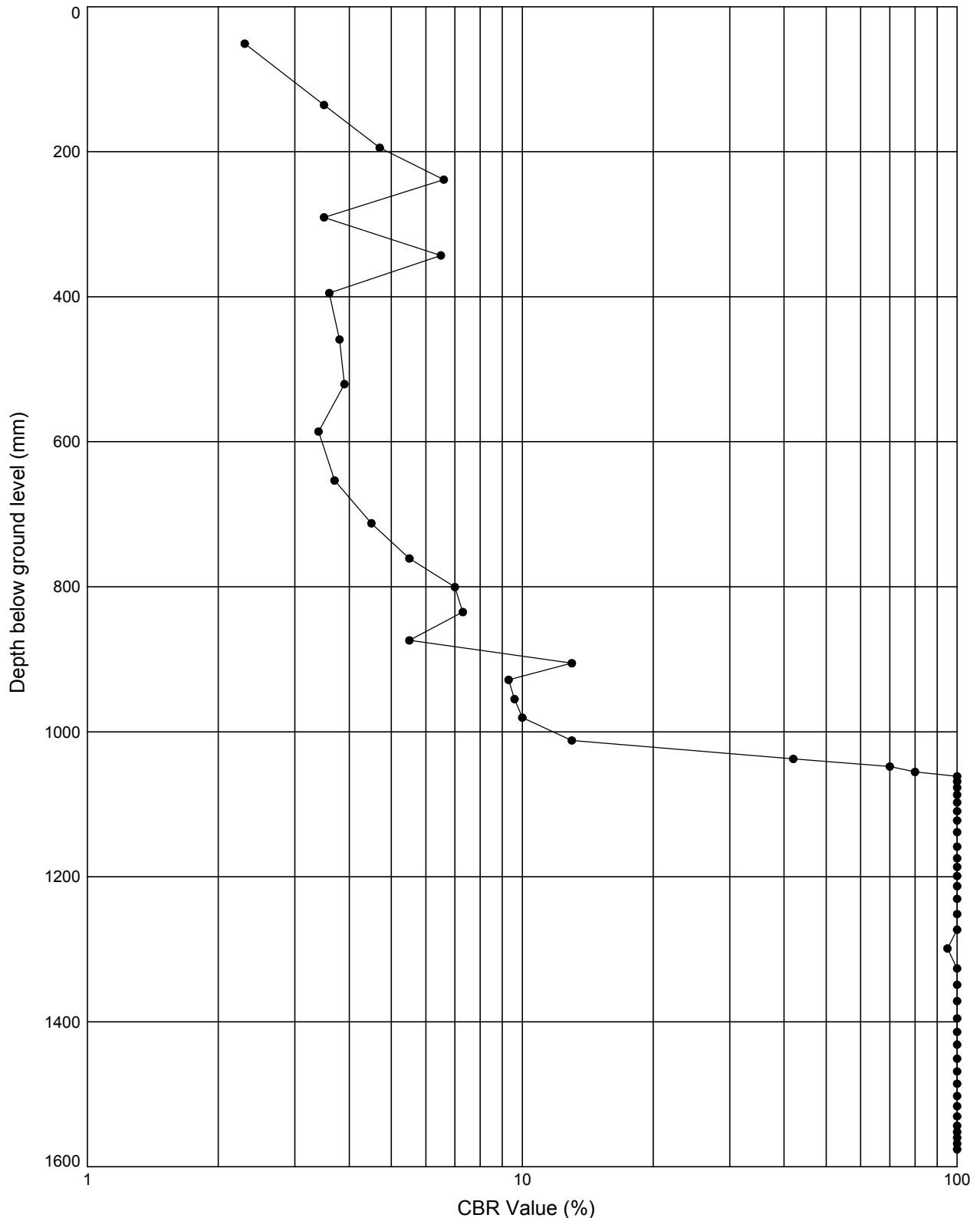
DCP TEST RESULTS - DEPTH vs CBR VALUE

Position Ref : **TRL105**

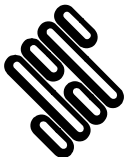
Test Date : **10.04.19**

Ground Level (m AOD): **27.32**

National Grid Co-ordinates: **E:531330.5 N:120653.9**



Notes: CBR values calculated after TRRL Road Note 8 method. Values over 100% are plotted on the 100% line.



Compiled By

Date

Checked By

Date

12/06/19

Contract

**HE Northern Arc, Burgess Hill -
Freeks Farm & Link Road GI**

Contract Ref:

562943

GINT_LIBRARY_v8_07.GLB LibVersion: v8_07_001 PjVersion: v8_07 | Graph 1 - DCP - 1 - BLOWS VS DEPTH - A4L | 562943_HE_NORTH_ARC_BURGESS_HILL_FREEKS_FARM&LINK_ROAD_GI.GPJ

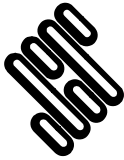
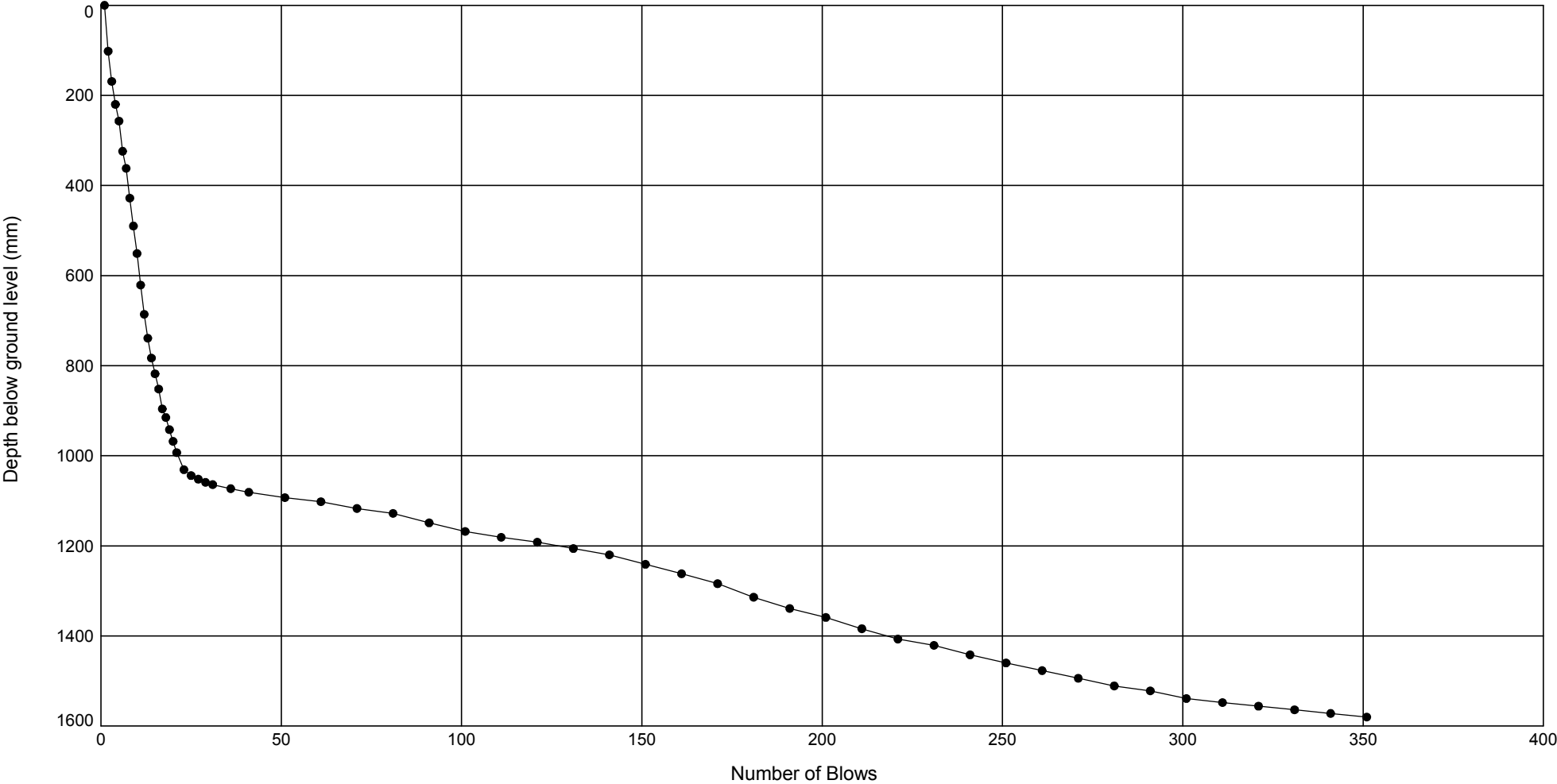
DCP TEST RESULTS - DEPTH vs NUMBER OF BLOWS

Position Ref : **TRL105**

Test Date : **10.04.19**

National Grid Co-ordinates: **E:531330.5 N:120653.9**

Ground Level (m AOD): **27.32**



Compiled By	Date	Checked By	Date	Contract Ref: 562943
	12/06/19			
Contract HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI				

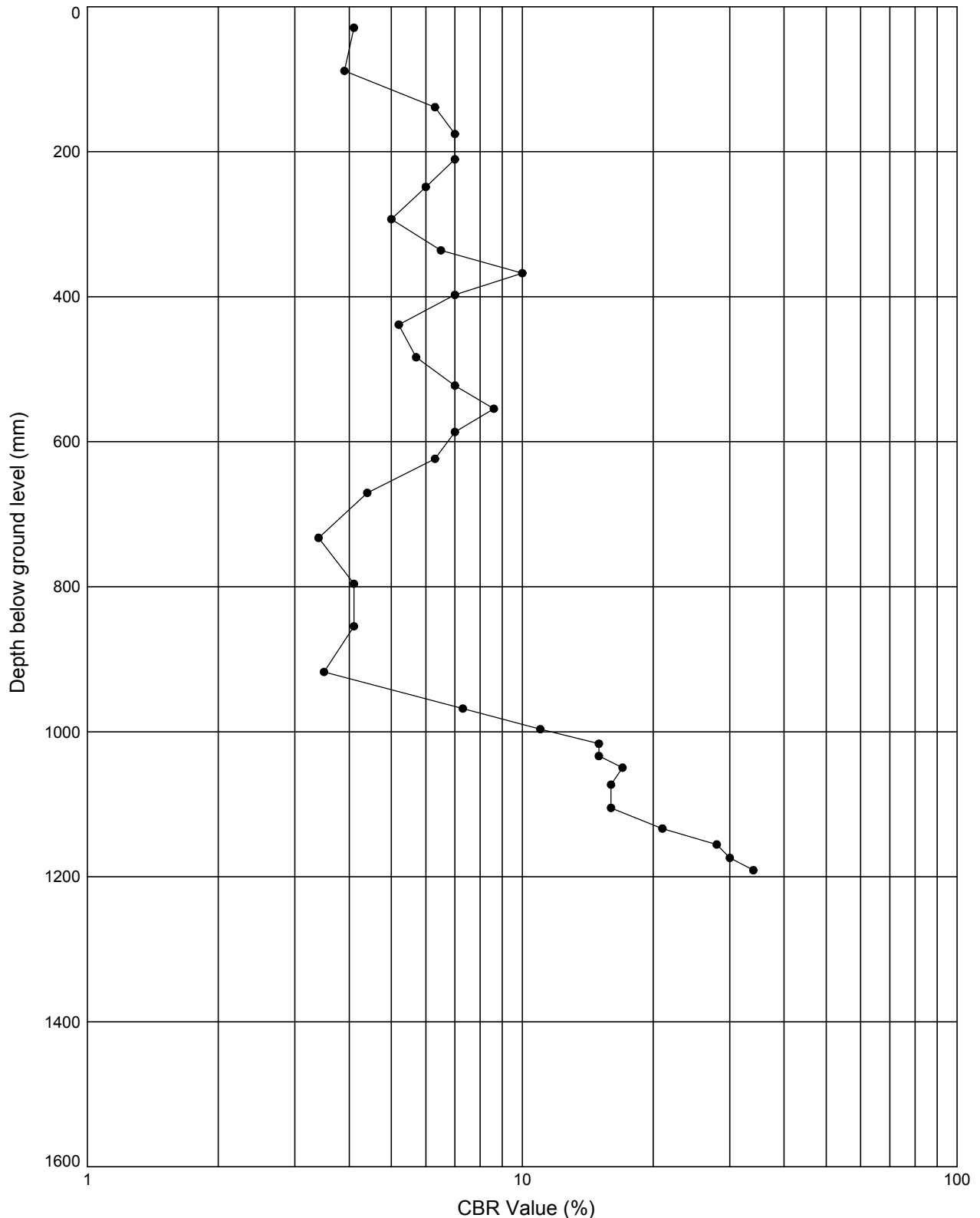
DCP TEST RESULTS - DEPTH vs CBR VALUE

Position Ref : **TRL106**

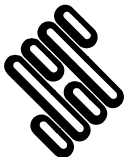
Test Date : **12.04.19**

Ground Level (m AOD): **30.50**

National Grid Co-ordinates: **E:531420.0 N:120706.3**



Notes: CBR values calculated after TRRL Road Note 8 method. Values over 100% are plotted on the 100% line.



Compiled By

Date

Checked By

Date

12/06/19

Contract

**HE Northern Arc, Burgess Hill -
Freeks Farm & Link Road GI**

Contract Ref:

562943

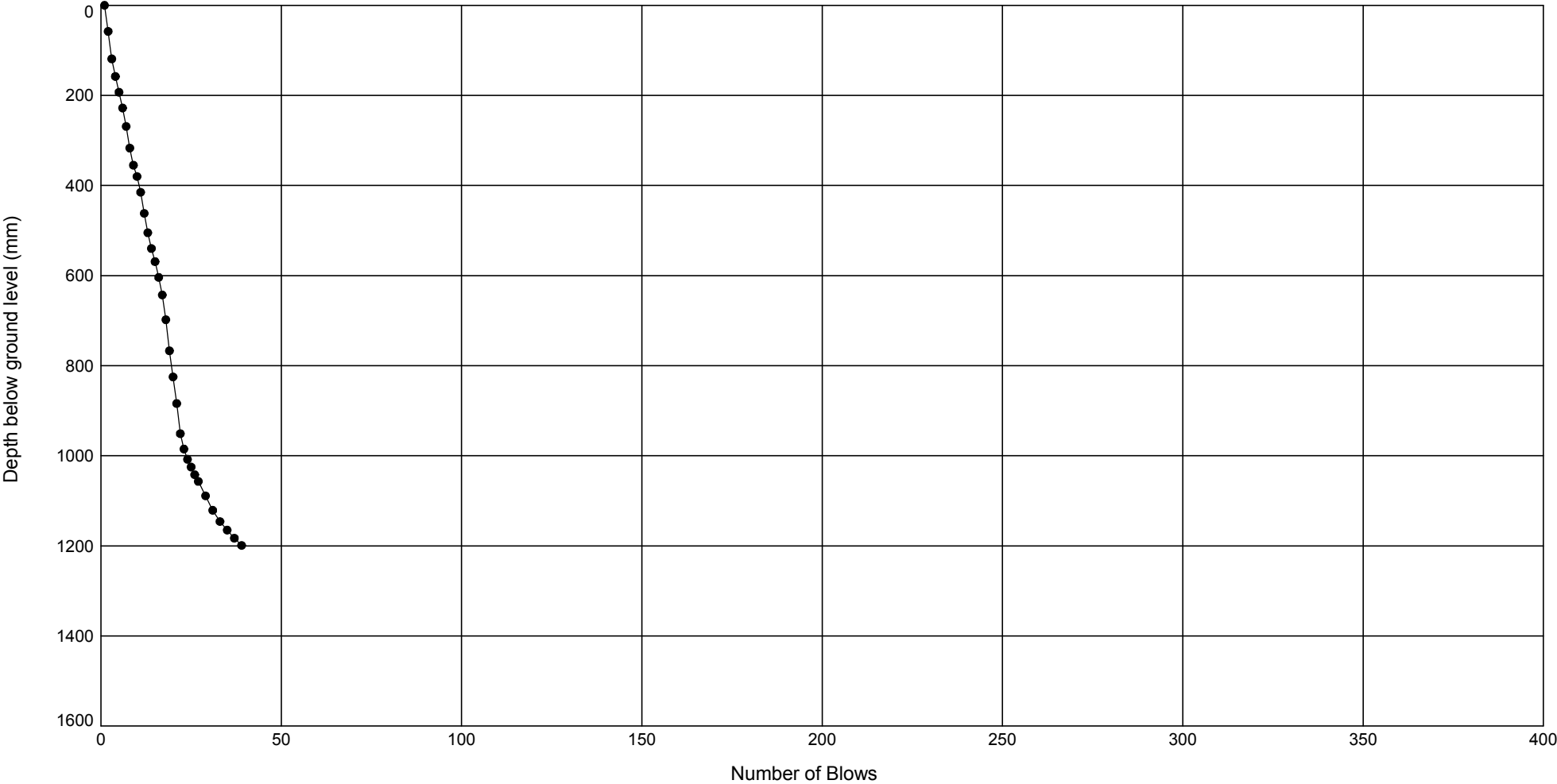
DCP TEST RESULTS - DEPTH vs NUMBER OF BLOWS

Position Ref : **TRL106**

Test Date : **12.04.19**

National Grid Co-ordinates: **E:531420.0 N:120706.3**

Ground Level (m AOD): **30.50**



	Compiled By	Date	Checked By	Date	Contract Ref:
		12/06/19			562943
	Contract				
HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI					

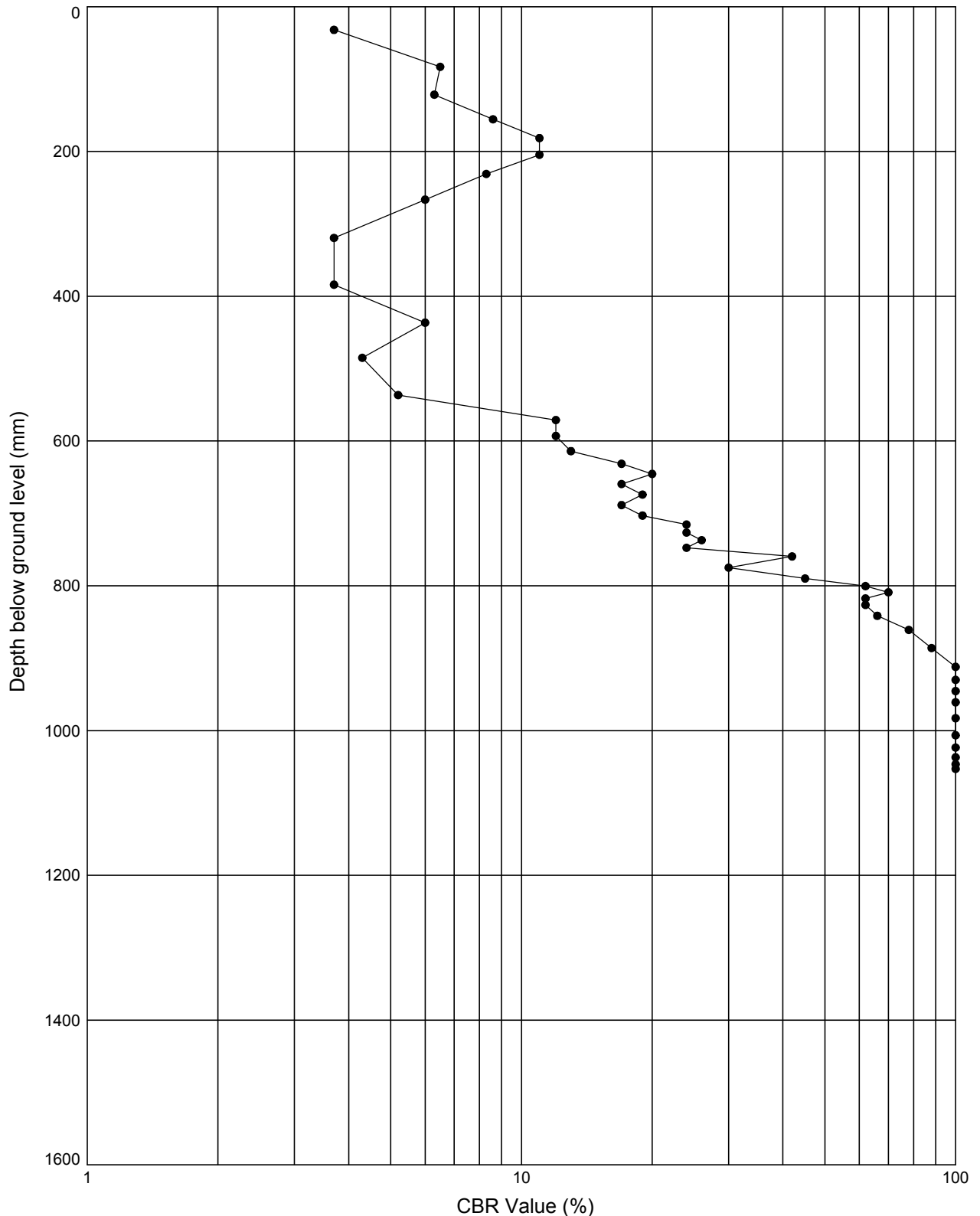
DCP TEST RESULTS - DEPTH vs CBR VALUE

Position Ref : **TRL107**

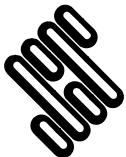
Test Date : **12.04.19**

Ground Level (m AOD): **33.15**

National Grid Co-ordinates: **E:531455.1 N:120738.6**



Notes: CBR values calculated after TRRL Road Note 8 method. Values over 100% are plotted on the 100% line.



Compiled By

Date

Checked By

Date

12/06/19

Contract

**HE Northern Arc, Burgess Hill -
Freeks Farm & Link Road GI**

Contract Ref:

562943

GINT_LIBRARY_v8_07.GLB LibVersion: v8_07_001 PjVersion: v8_07 | Graph 1 - DCP - 1 - BLOWS VS DEPTH - A4L | 562943_HE_NORTH_ARC_BURGESS_HILL_FREEKS_FARM&LINK_ROAD_GI.GPJ

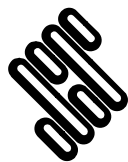
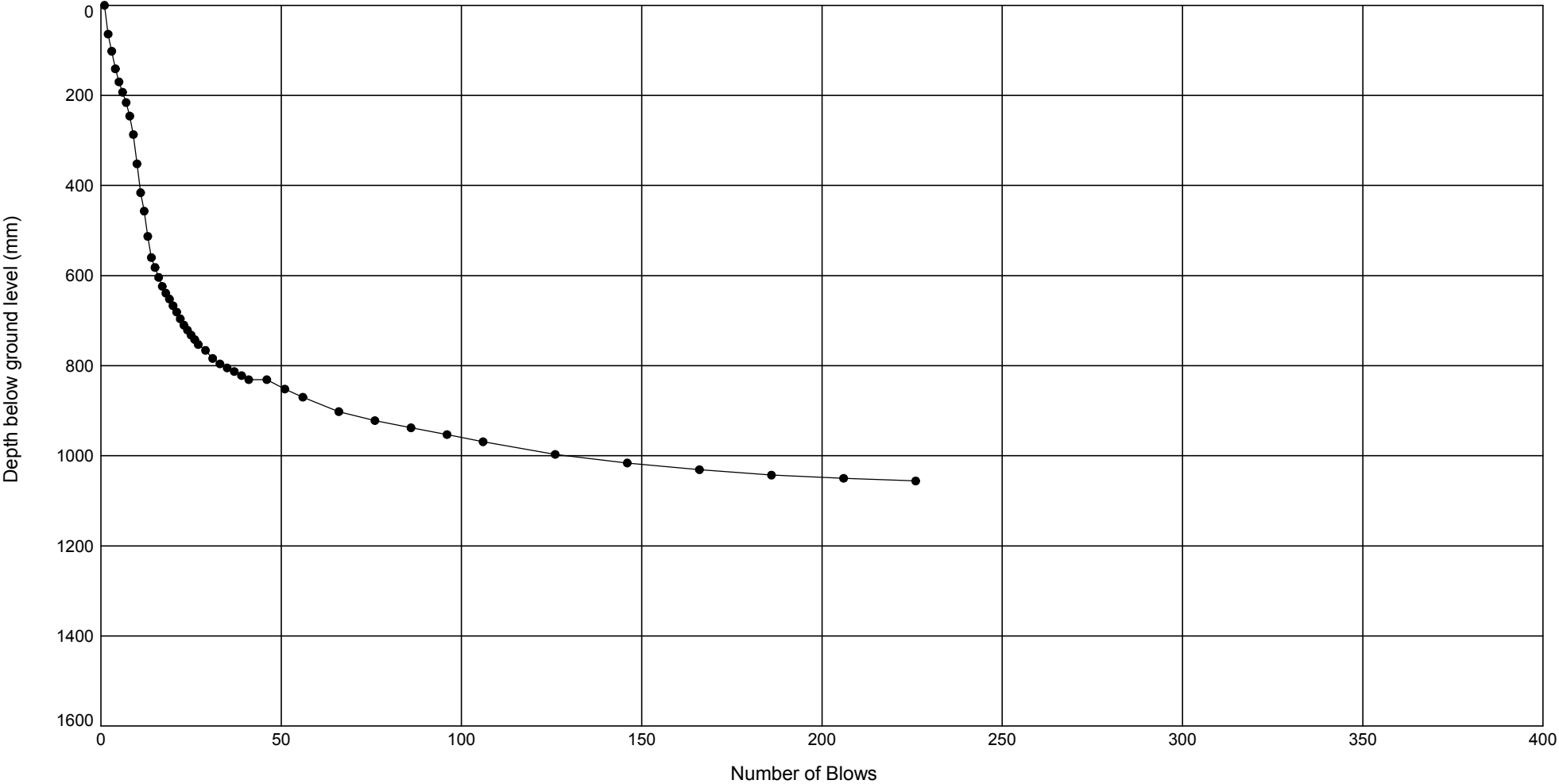
DCP TEST RESULTS - DEPTH vs NUMBER OF BLOWS

Position Ref : **TRL107**

Test Date : **12.04.19**

National Grid Co-ordinates: **E:531455.1 N:120738.6**

Ground Level (m AOD): **33.15**



Compiled By

Date

Checked By

Date

Contract Ref:

12/06/19

Contract

562943

HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI

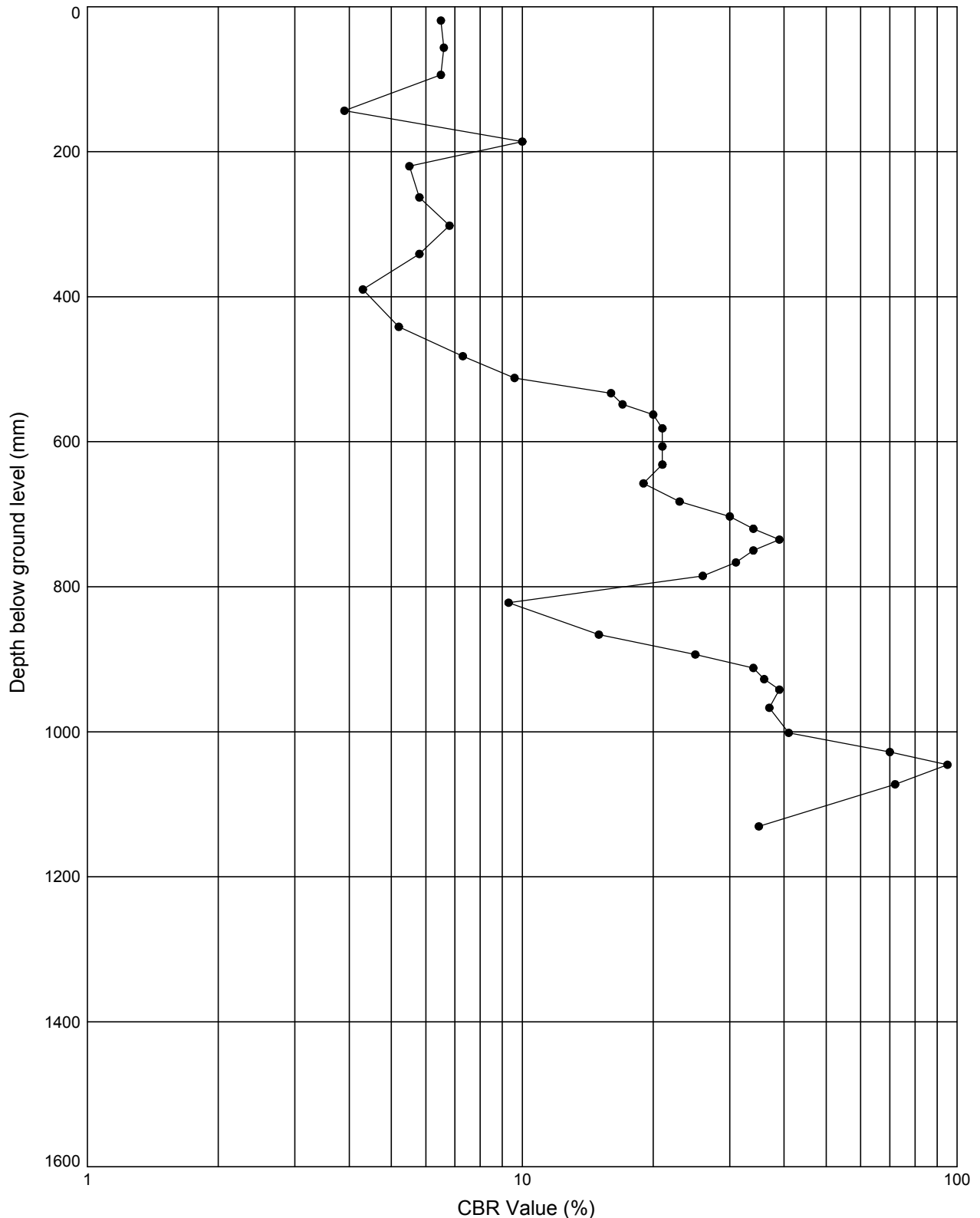
DCP TEST RESULTS - DEPTH vs CBR VALUE

Position Ref : **TRL108**

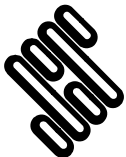
Test Date : **12.04.19**

Ground Level (m AOD): **35.03**

National Grid Co-ordinates: **E:531427.7 N:120785.1**



Notes: CBR values calculated after TRRL Road Note 8 method. Values over 100% are plotted on the 100% line.



Compiled By

Date

Checked By

Date

12/06/19

Contract

**HE Northern Arc, Burgess Hill -
Freeks Farm & Link Road GI**

Contract Ref:

562943

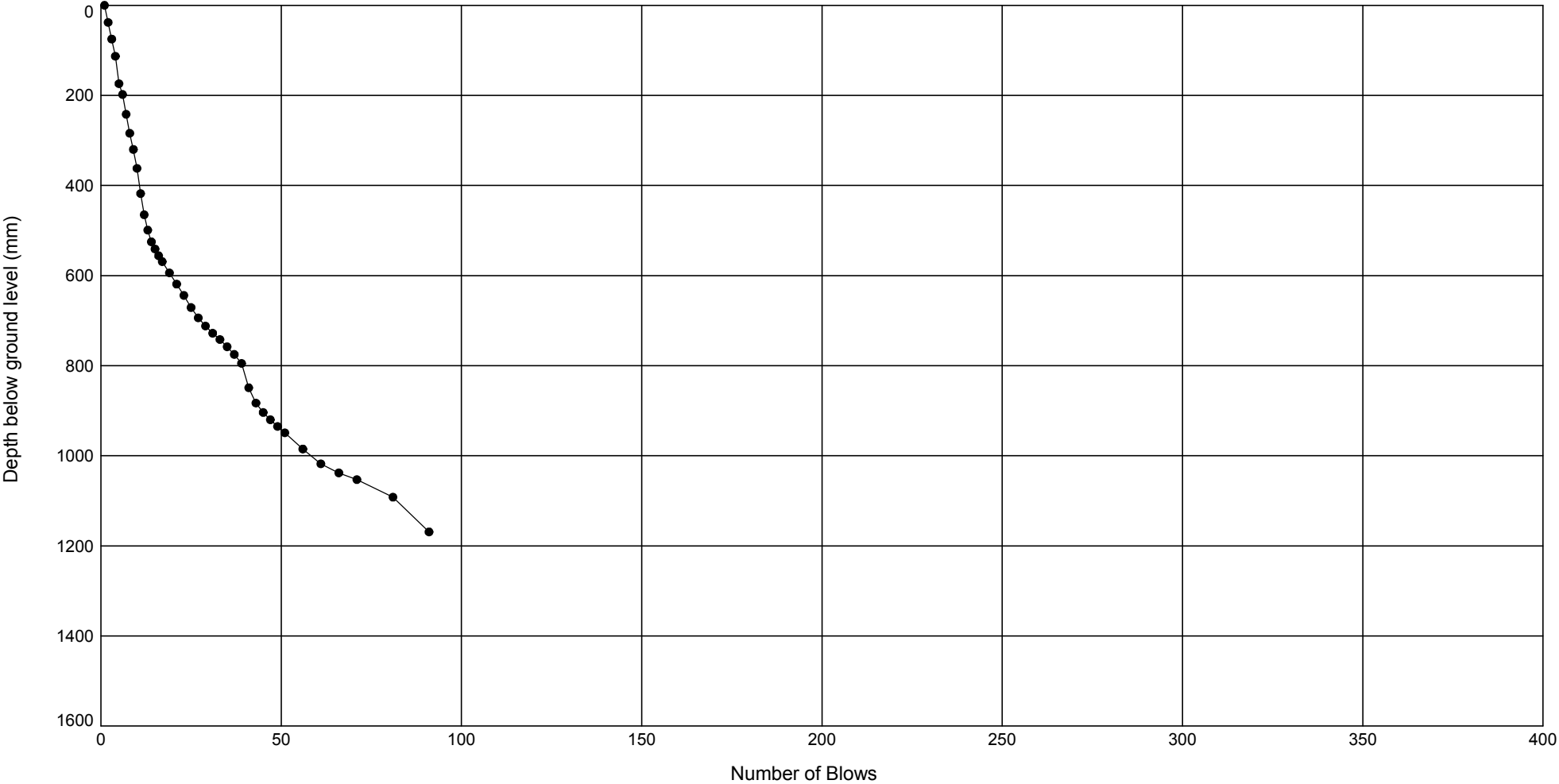
DCP TEST RESULTS - DEPTH vs NUMBER OF BLOWS

Position Ref : **TRL108**

Test Date : **12.04.19**

National Grid Co-ordinates: **E:531427.7 N:120785.1**

Ground Level (m AOD): **35.03**



	Compiled By	Date	Checked By	Date	Contract Ref: 562943
		12/06/19			
	Contract HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI				

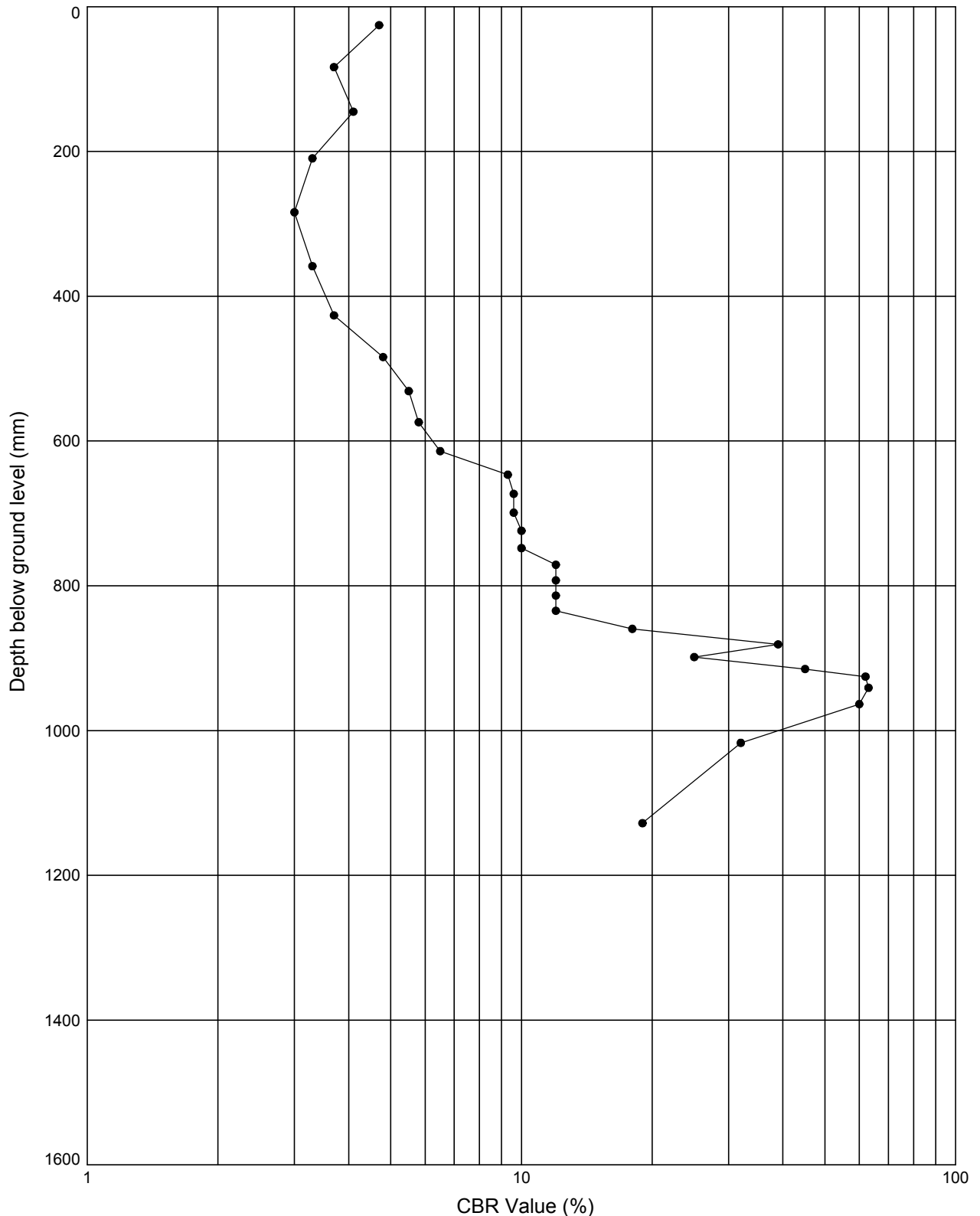
DCP TEST RESULTS - DEPTH vs CBR VALUE

Position Ref : **TRL109**

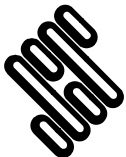
Test Date : **12.04.19**

Ground Level (m AOD): **32.64**

National Grid Co-ordinates: **E:531338.3 N:120757.9**



Notes: CBR values calculated after TRRL Road Note 8 method. Values over 100% are plotted on the 100% line.



Compiled By

Date

Checked By

Date

12/06/19

Contract

**HE Northern Arc, Burgess Hill -
Frees Farm & Link Road GI**

Contract Ref:

562943

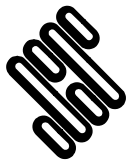
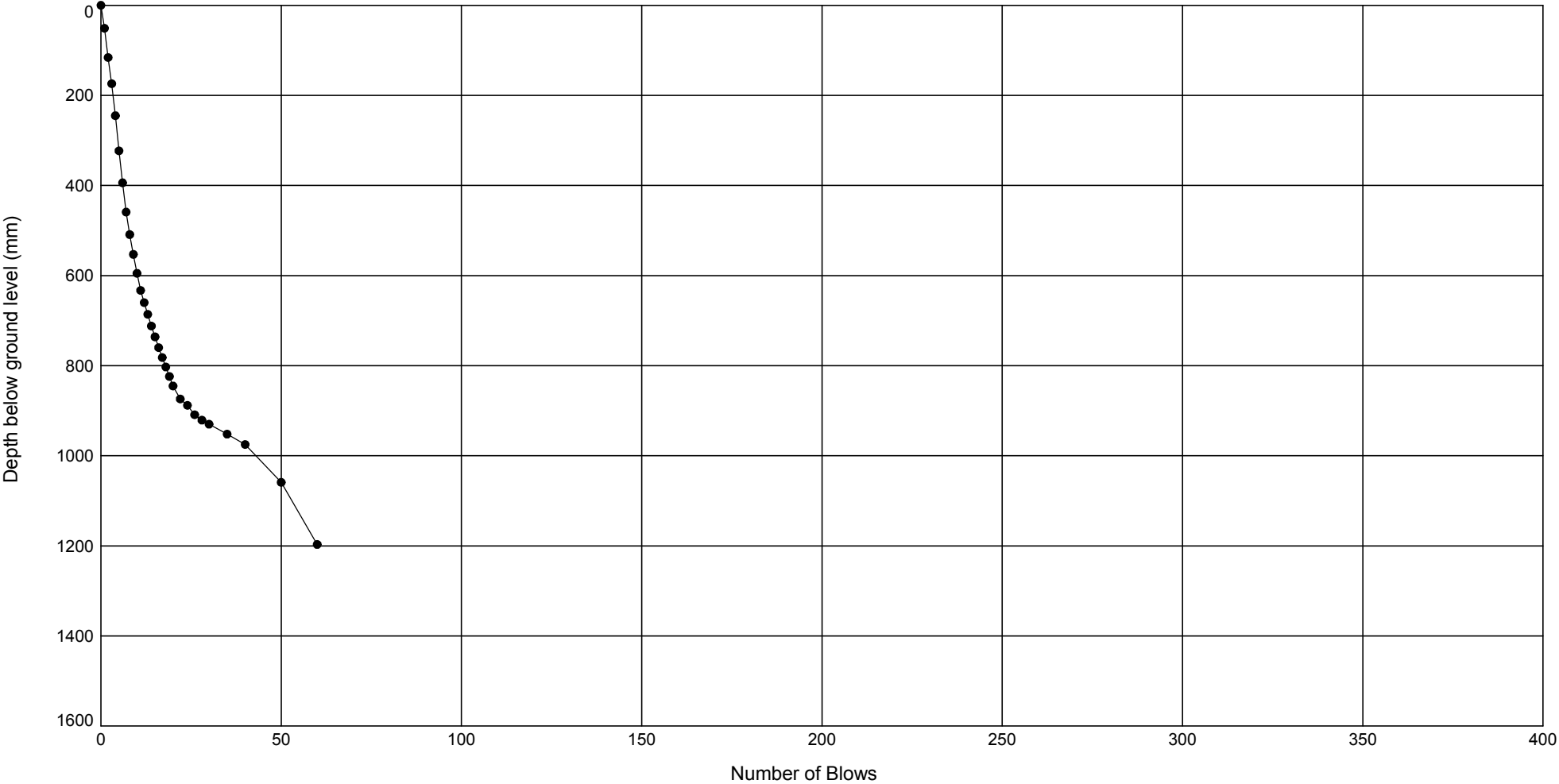
DCP TEST RESULTS - DEPTH vs NUMBER OF BLOWS

Position Ref : **TRL109**

Test Date : **12.04.19**

National Grid Co-ordinates: **E:531338.3 N:120757.9**

Ground Level (m AOD): **32.64**



Compiled By

Date

Checked By

Date

Contract Ref:

12/06/19

Contract

562943

HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI

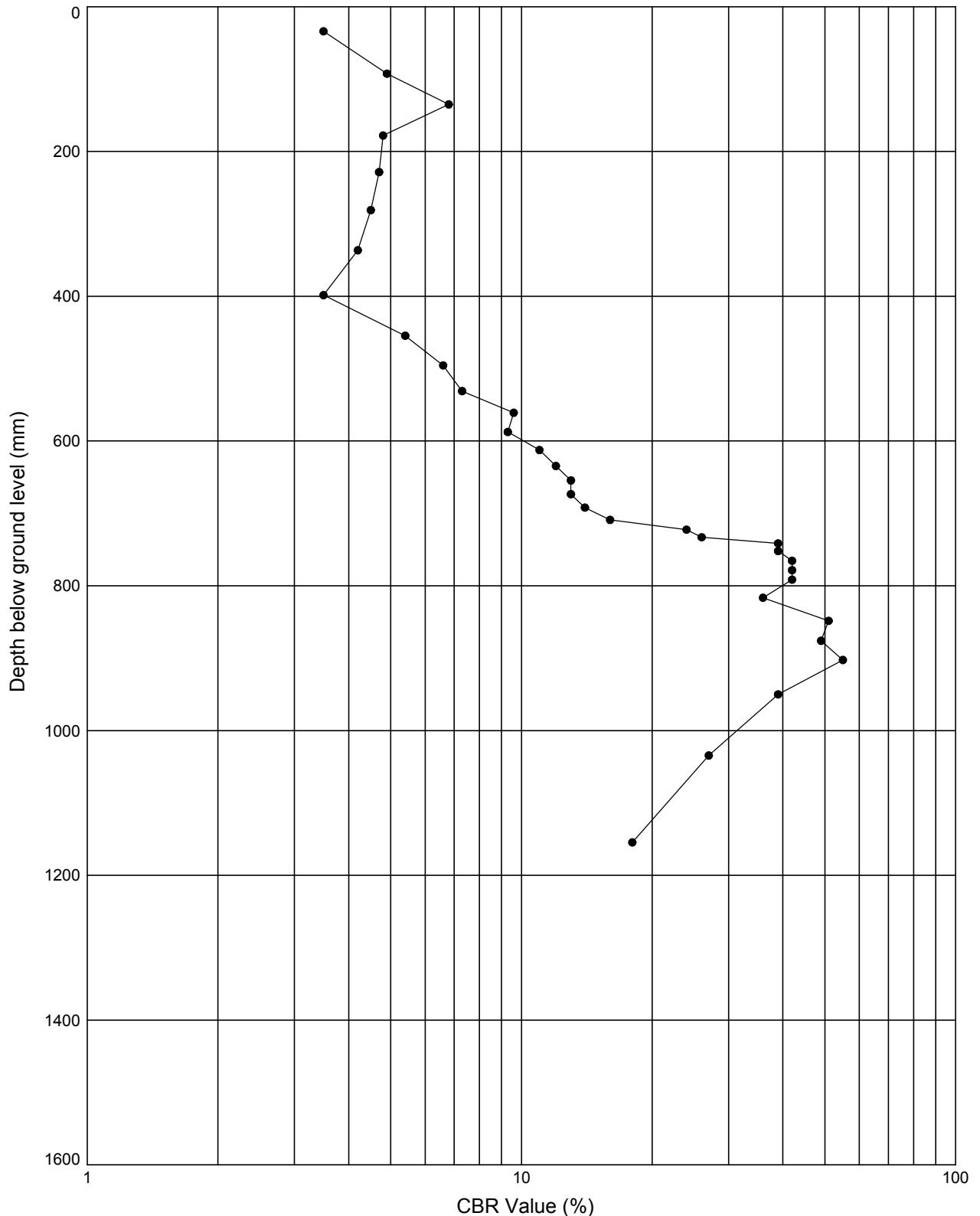
DCP TEST RESULTS - DEPTH vs CBR VALUE

Position Ref : **TRL110**

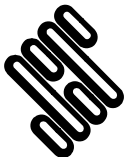
Test Date : **12.04.19**

Ground Level (m AOD): **29.13**

National Grid Co-ordinates: **E:531237.8 N:120724.9**



Notes: CBR values calculated after TRRL Road Note 8 method. Values over 100% are plotted on the 100% line.



Compiled By

Date

Checked By

Date

12/06/19

Contract

**HE Northern Arc, Burgess Hill -
Freeks Farm & Link Road GI**

Contract Ref:

562943

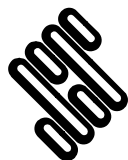
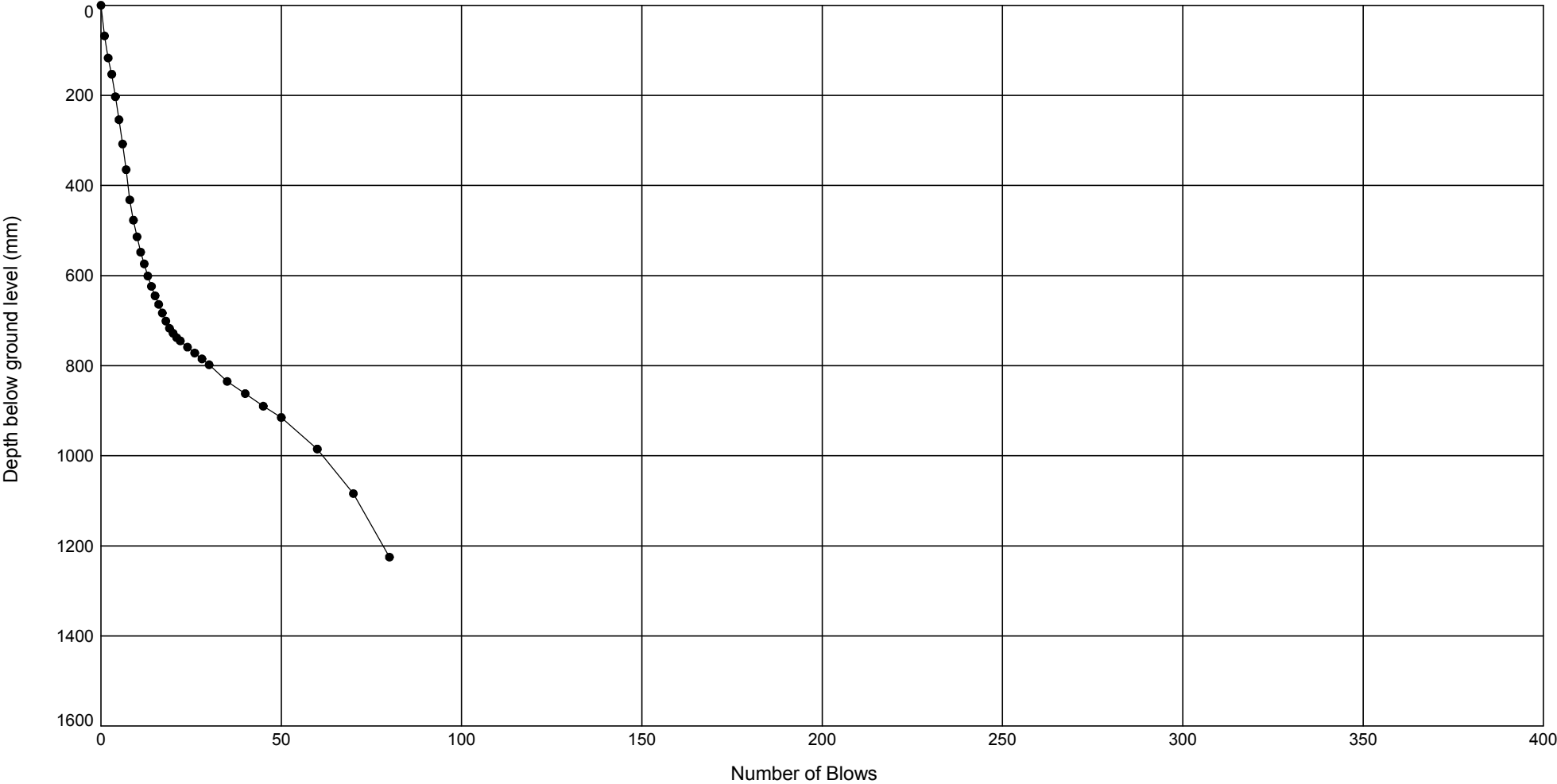
DCP TEST RESULTS - DEPTH vs NUMBER OF BLOWS

Position Ref : **TRL110**

Test Date : **12.04.19**

National Grid Co-ordinates: **E:531237.8 N:120724.9**

Ground Level (m AOD): **29.13**



Compiled By	Date	Checked By	Date	Contract Ref: 562943
	12/06/19			
Contract HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI				

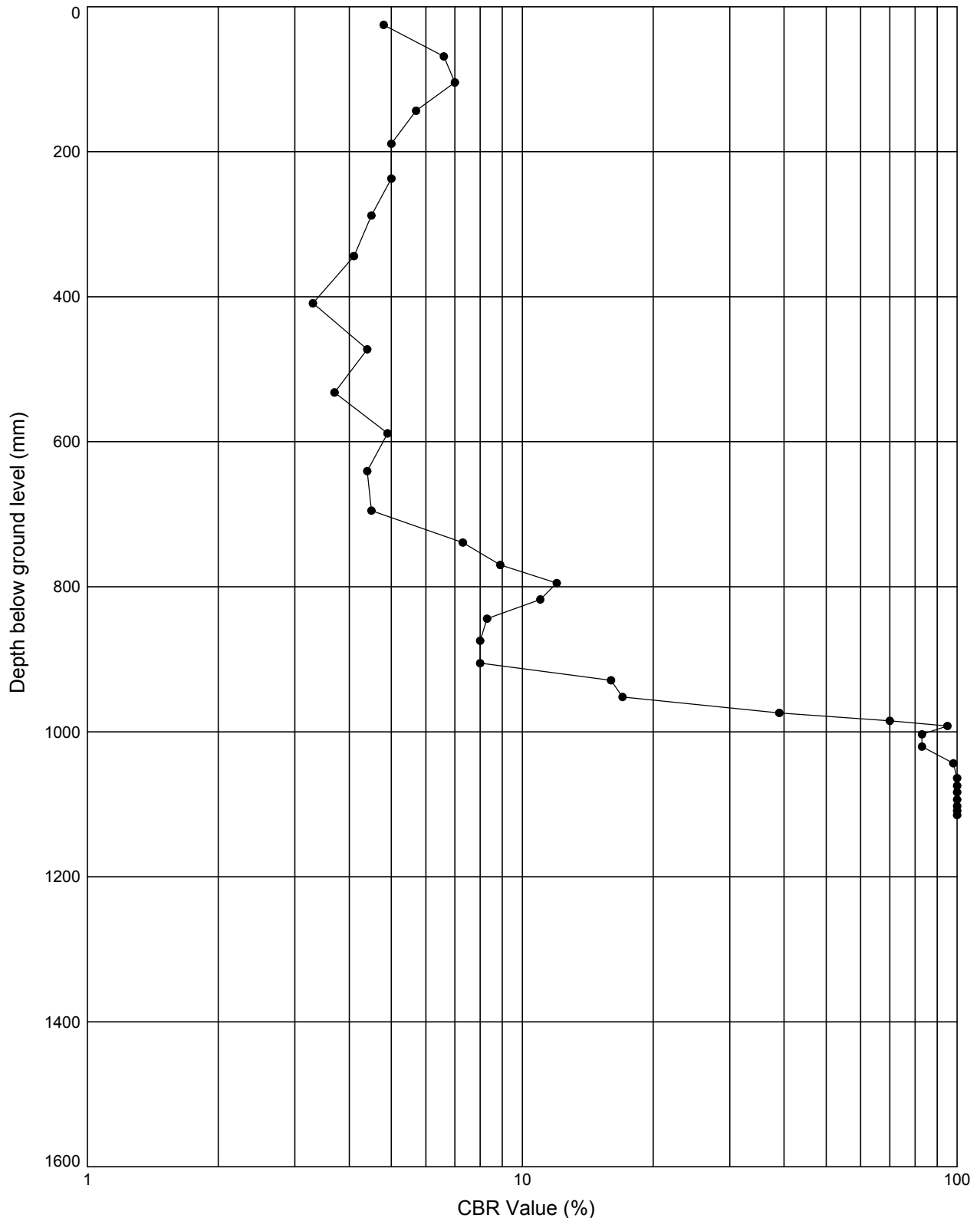
DCP TEST RESULTS - DEPTH vs CBR VALUE

Position Ref : **TRL111**

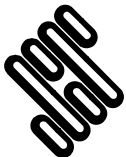
Test Date : **12.04.19**

Ground Level (m AOD): **32.58**

National Grid Co-ordinates: **E:531298.2 N:120812.6**



Notes: CBR values calculated after TRRL Road Note 8 method. Values over 100% are plotted on the 100% line.



Compiled By

Date

Checked By

Date

12/06/19

Contract

**HE Northern Arc, Burgess Hill -
Frees Farm & Link Road GI**

Contract Ref:

562943

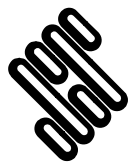
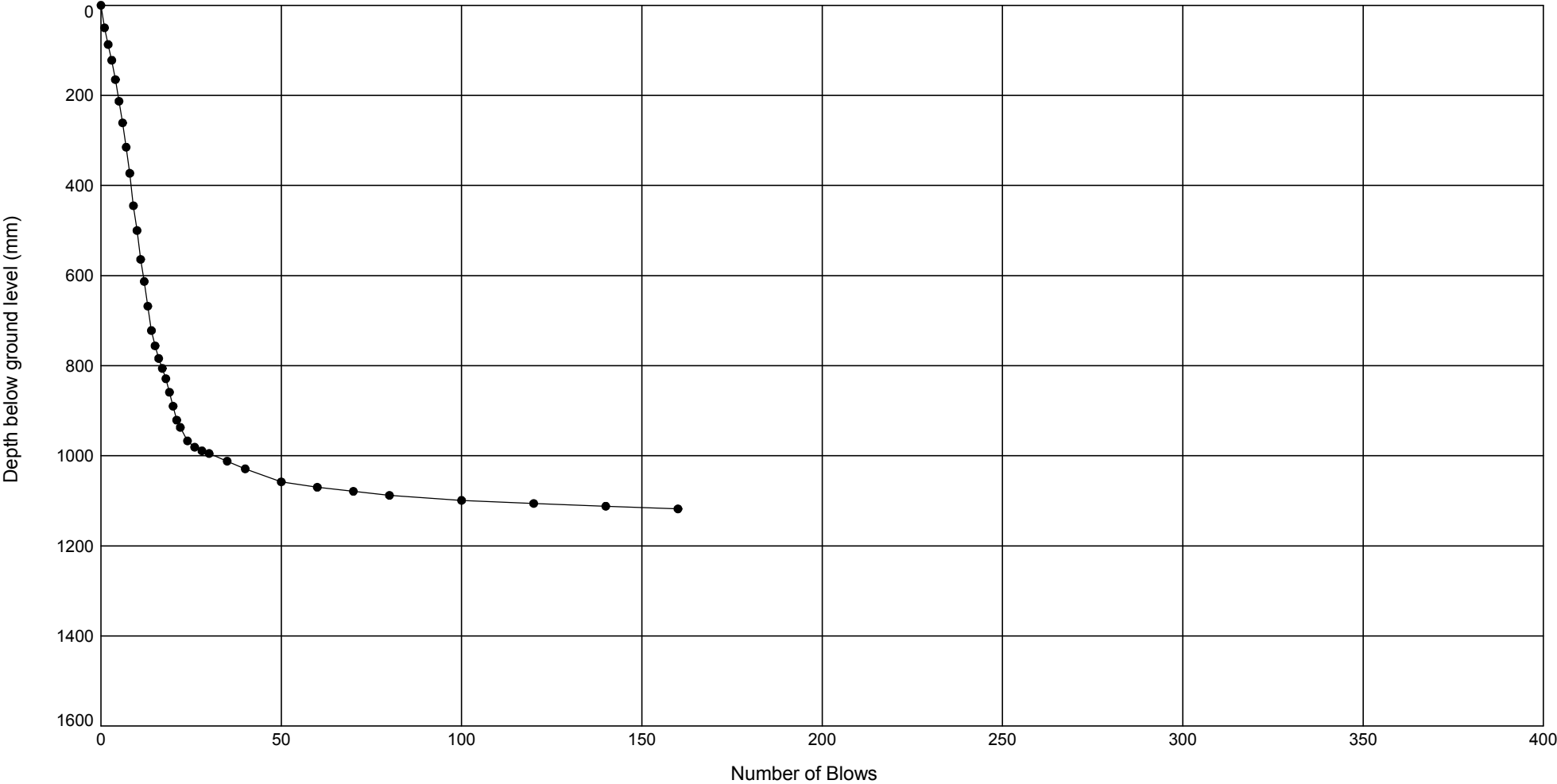
DCP TEST RESULTS - DEPTH vs NUMBER OF BLOWS

Position Ref : **TRL111**

Test Date : **12.04.19**

National Grid Co-ordinates: **E:531298.2 N:120812.6**

Ground Level (m AOD): **32.58**



Compiled By

Date

Checked By

Date

Contract Ref:

12/06/19

Contract

562943

HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI

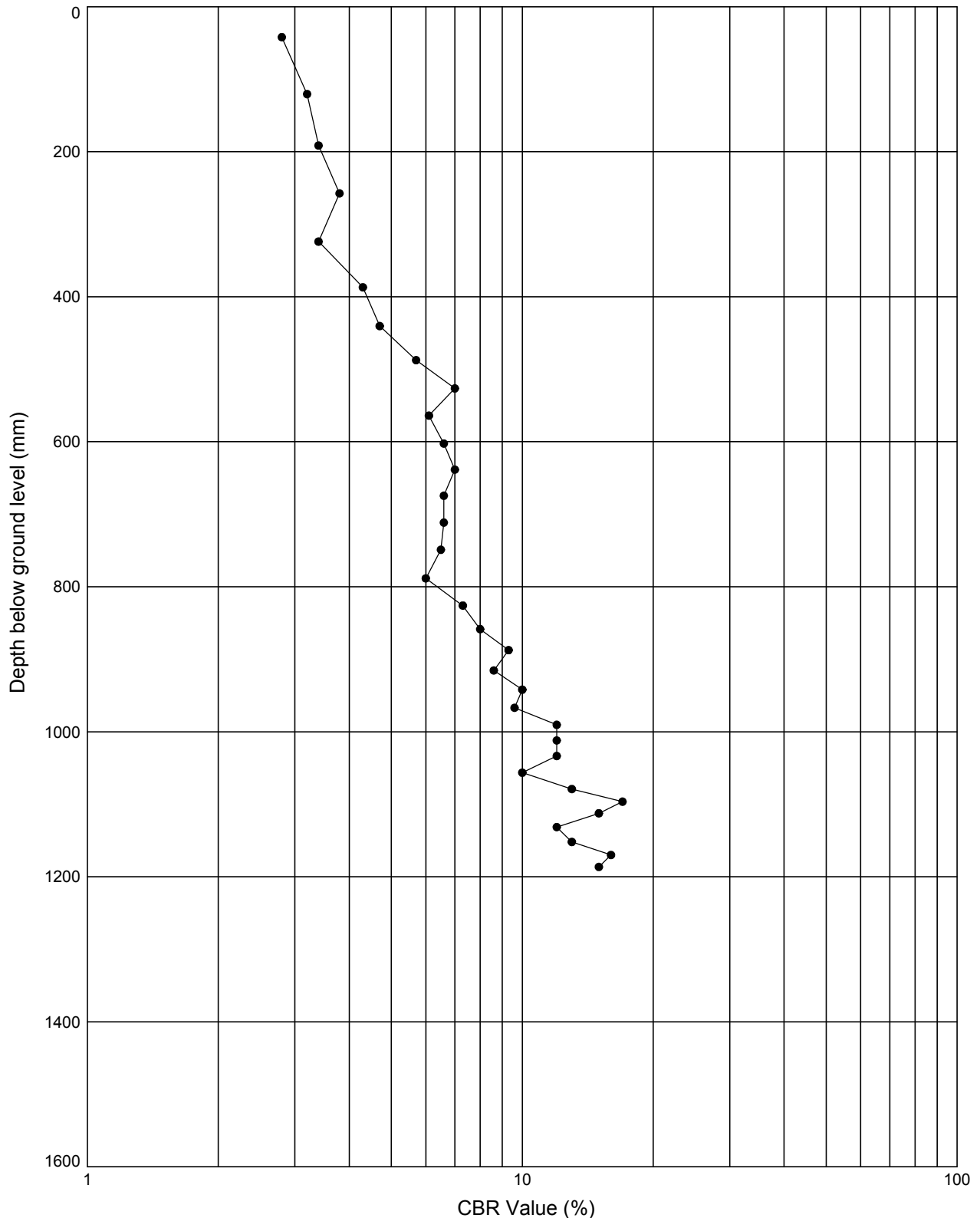
DCP TEST RESULTS - DEPTH vs CBR VALUE

Position Ref : **TRL112**

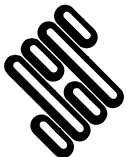
Test Date : **11.04.19**

Ground Level (m AOD): **32.75**

National Grid Co-ordinates: **E:531506.9 N:120827.9**



Notes: CBR values calculated after TRRL Road Note 8 method. Values over 100% are plotted on the 100% line.



Compiled By

Date

Checked By

Date

12/06/19

Contract

**HE Northern Arc, Burgess Hill -
Freeks Farm & Link Road GI**

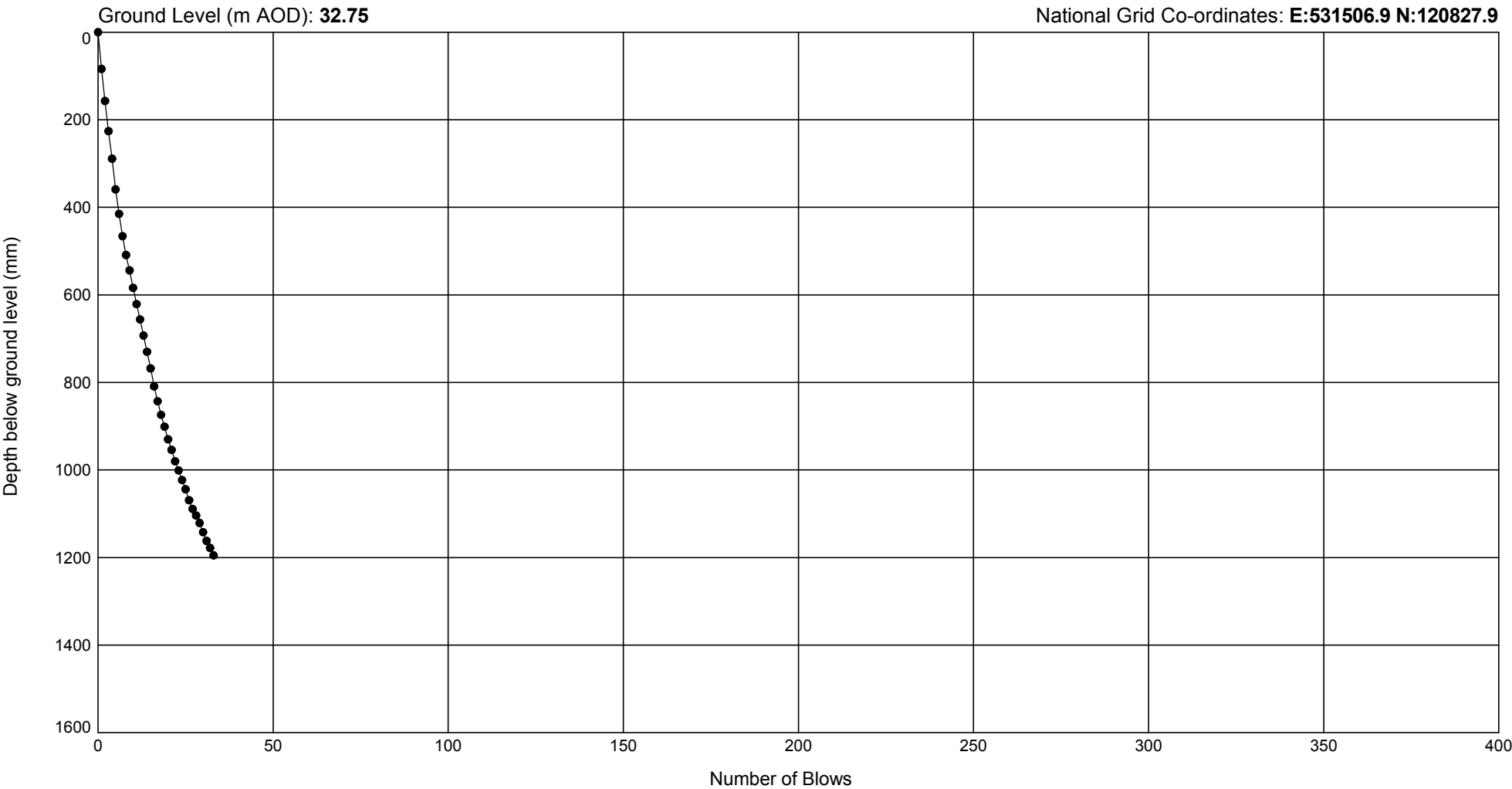
Contract Ref:

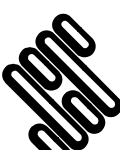
562943

DCP TEST RESULTS - DEPTH vs NUMBER OF BLOWS

Position Ref : **TRL112** Test Date : **11.04.19**

National Grid Co-ordinates: **E:531506.9 N:120827.9**



	Compiled By	Date	Checked By	Date	Contract Ref: 562943
		12/06/19			
	Contract HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI				

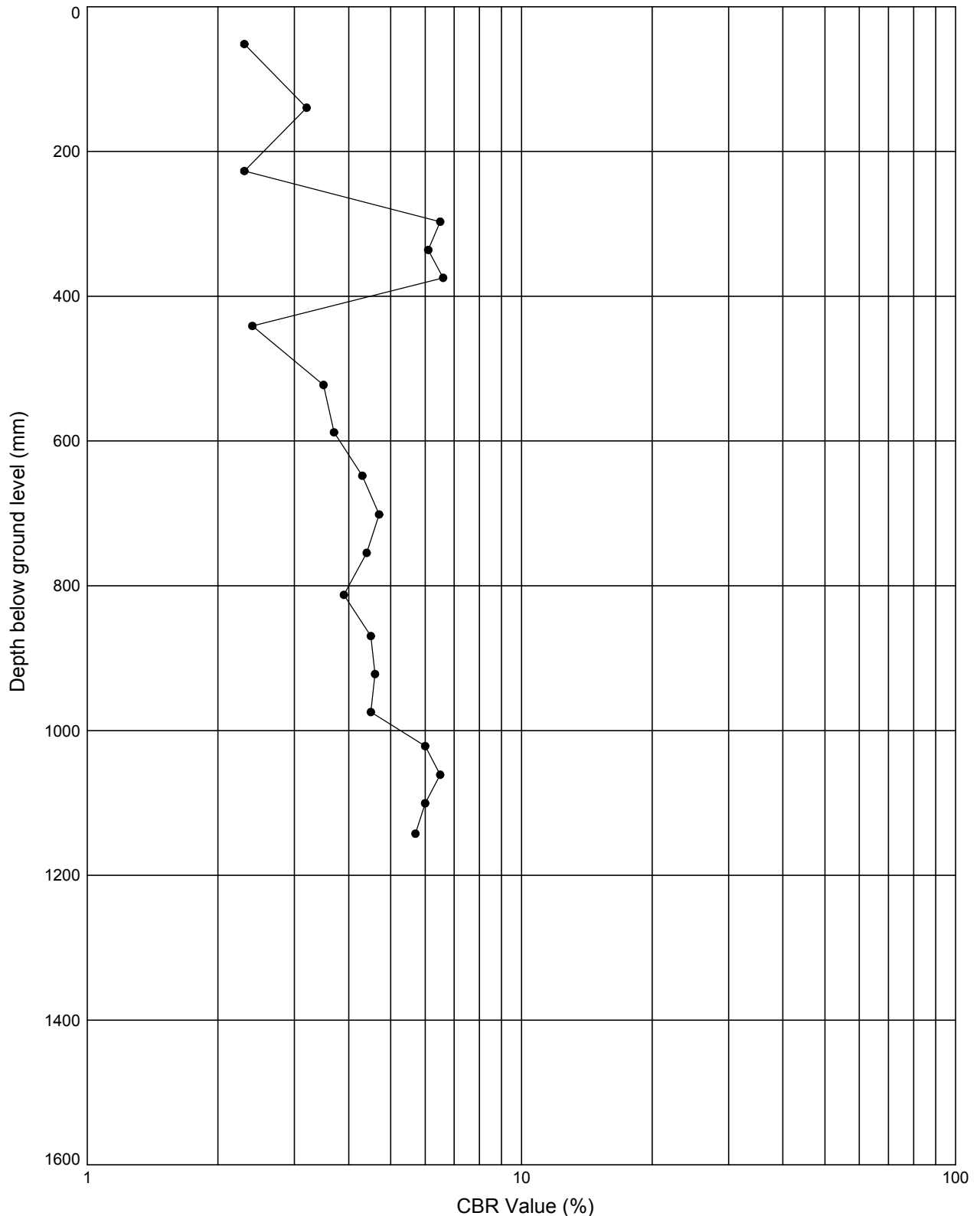
DCP TEST RESULTS - DEPTH vs CBR VALUE

Position Ref : **TRL113**

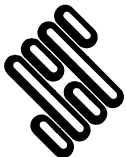
Test Date : **11.04.19**

Ground Level (m AOD): **31.88**

National Grid Co-ordinates: **E:531410.1 N:120870.2**



Notes: CBR values calculated after TRRL Road Note 8 method. Values over 100% are plotted on the 100% line.



Compiled By

Date

Checked By

Date

12/06/19

Contract

**HE Northern Arc, Burgess Hill -
Freeks Farm & Link Road GI**

Contract Ref:

562943

GINT_LIBRARY_v8_07.GLB LibVersion: v8_07_001 PjVersion: v8_07 | Graph 1 - DCP - 1 - BLOWS VS DEPTH - A4L | 562943_HE_NORTH_ARC_BURGESS_HILL_FREEKS_FARM&LINK_ROAD_GI.GPJ

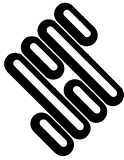
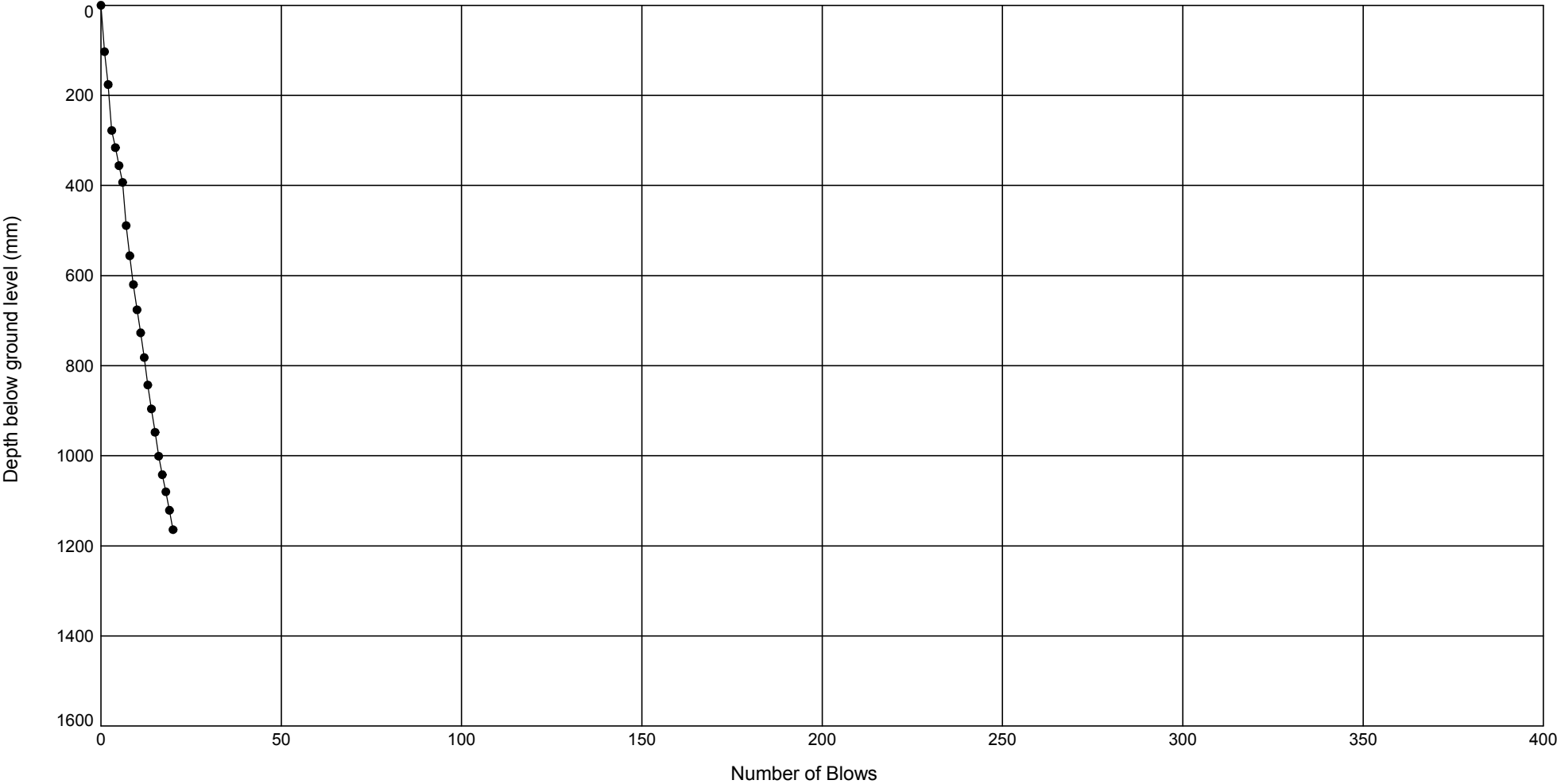
DCP TEST RESULTS - DEPTH vs NUMBER OF BLOWS

Position Ref : **TRL113**

Test Date : **11.04.19**

National Grid Co-ordinates: **E:531410.1 N:120870.2**

Ground Level (m AOD): **31.88**



Compiled By	Date	Checked By	Date	Contract Ref: 562943
	12/06/19			
Contract HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI				

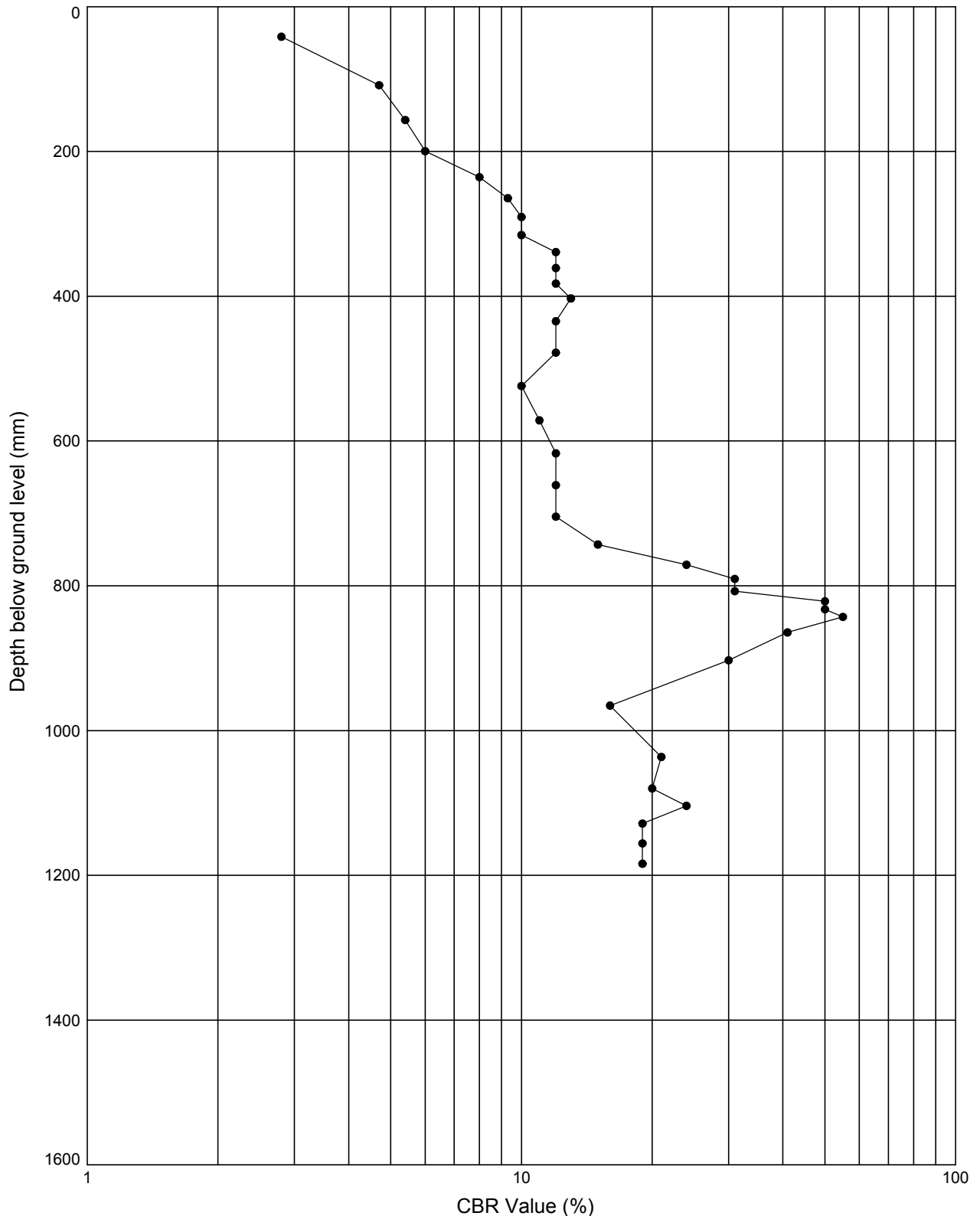
DCP TEST RESULTS - DEPTH vs CBR VALUE

Position Ref : **TRL114**

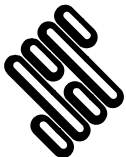
Test Date : **11.04.19**

Ground Level (m AOD): **26.78**

National Grid Co-ordinates: **E:531434.5 N:120977.2**



Notes: CBR values calculated after TRRL Road Note 8 method. Values over 100% are plotted on the 100% line.



Compiled By

Date

Checked By

Date

12/06/19

Contract

**HE Northern Arc, Burgess Hill -
Freeks Farm & Link Road GI**

Contract Ref:

562943

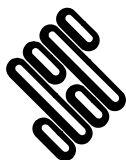
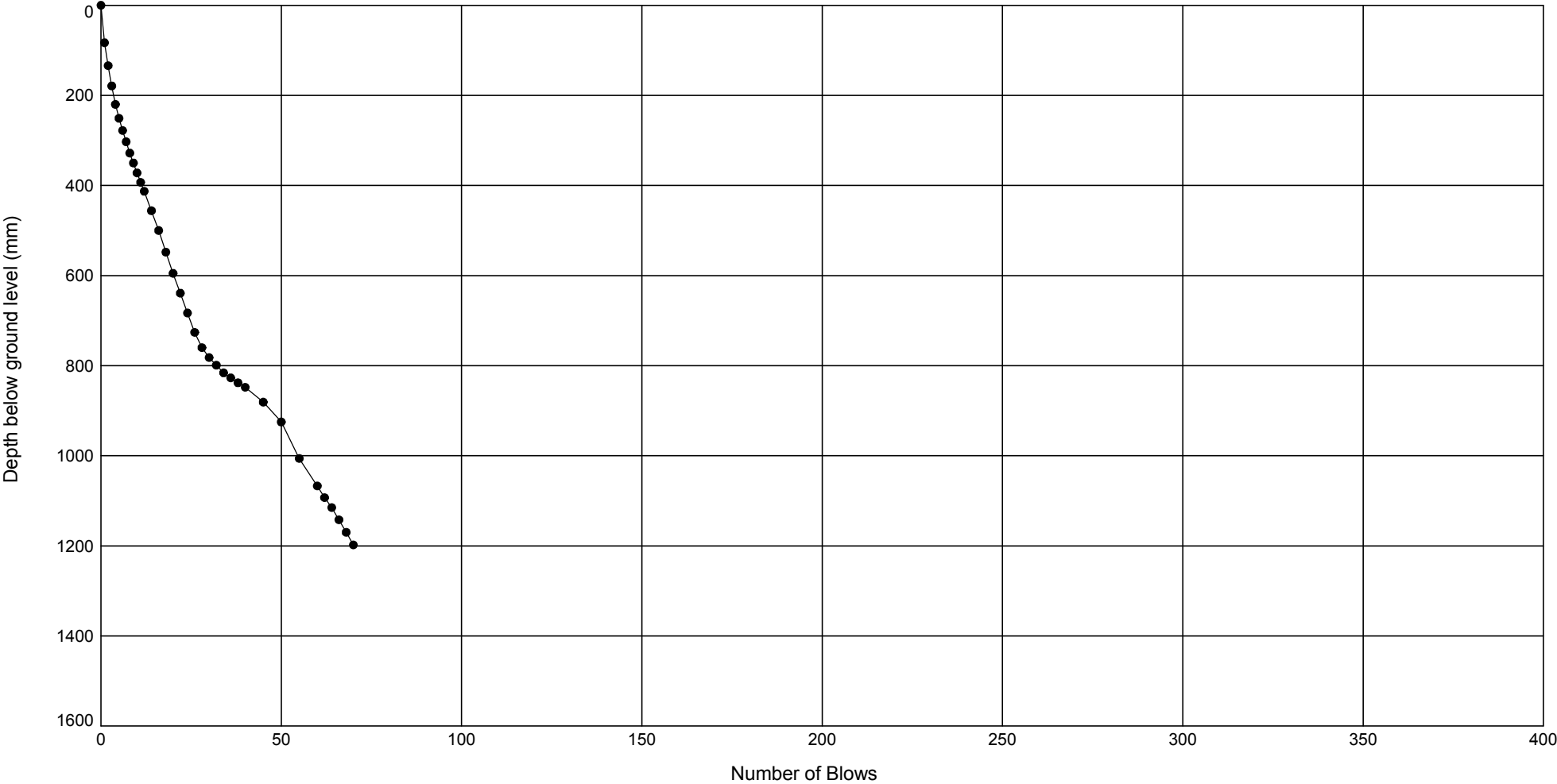
DCP TEST RESULTS - DEPTH vs NUMBER OF BLOWS

Position Ref : **TRL114**

Test Date : **11.04.19**

National Grid Co-ordinates: **E:531434.5 N:120977.2**

Ground Level (m AOD): **26.78**



Compiled By

Date

Checked By

Date

Contract Ref:

12/06/19

Contract

562943

HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI

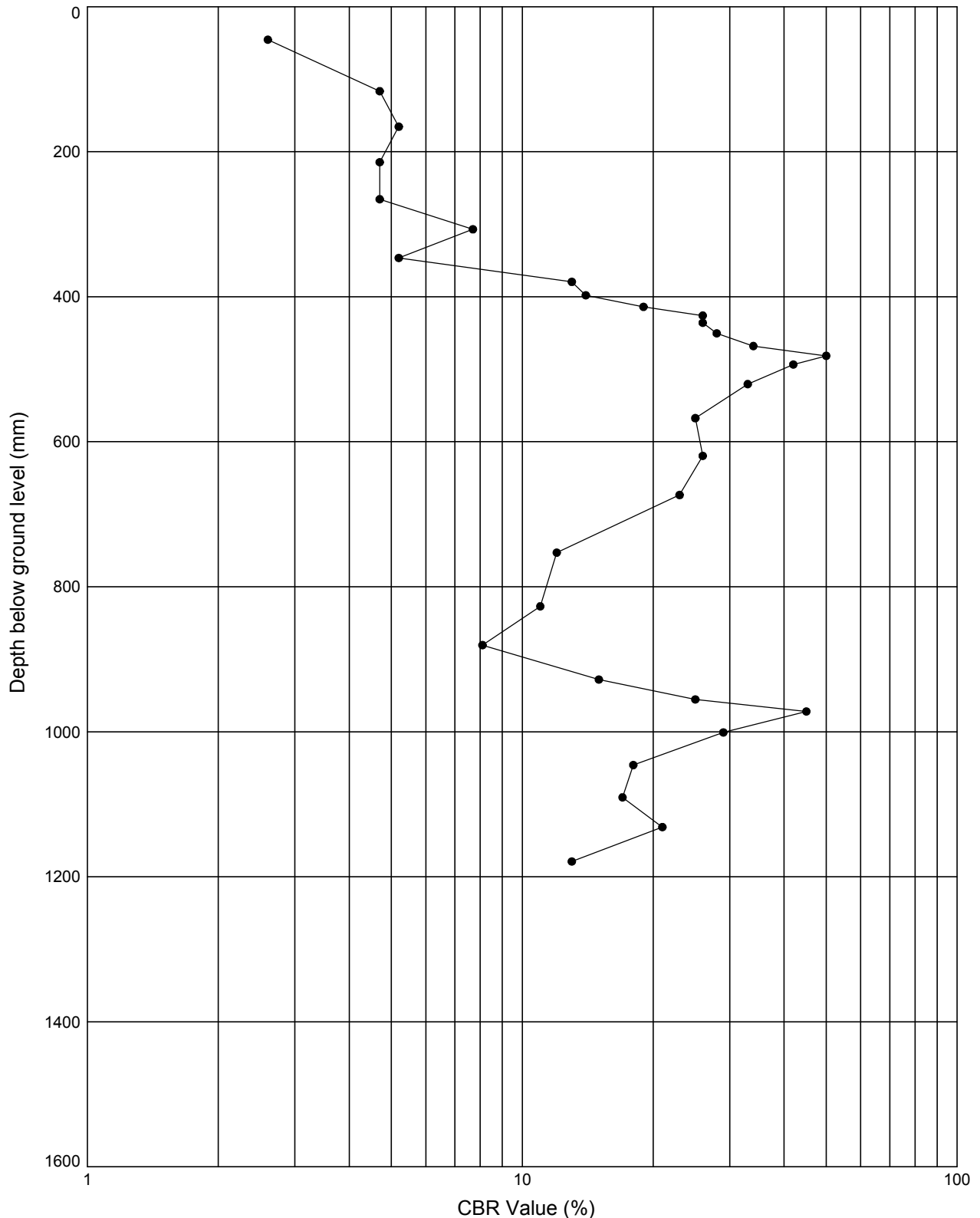
DCP TEST RESULTS - DEPTH vs CBR VALUE

Position Ref : **TRL115**

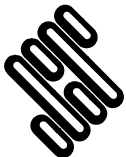
Test Date : **12.04.19**

Ground Level (m AOD): **31.54**

National Grid Co-ordinates: **E:531259.0 N:120858.6**



Notes: CBR values calculated after TRRL Road Note 8 method. Values over 100% are plotted on the 100% line.



Compiled By

Date

Checked By

Date

12/06/19

Contract

**HE Northern Arc, Burgess Hill -
Frees Farm & Link Road GI**

Contract Ref:

562943

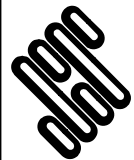
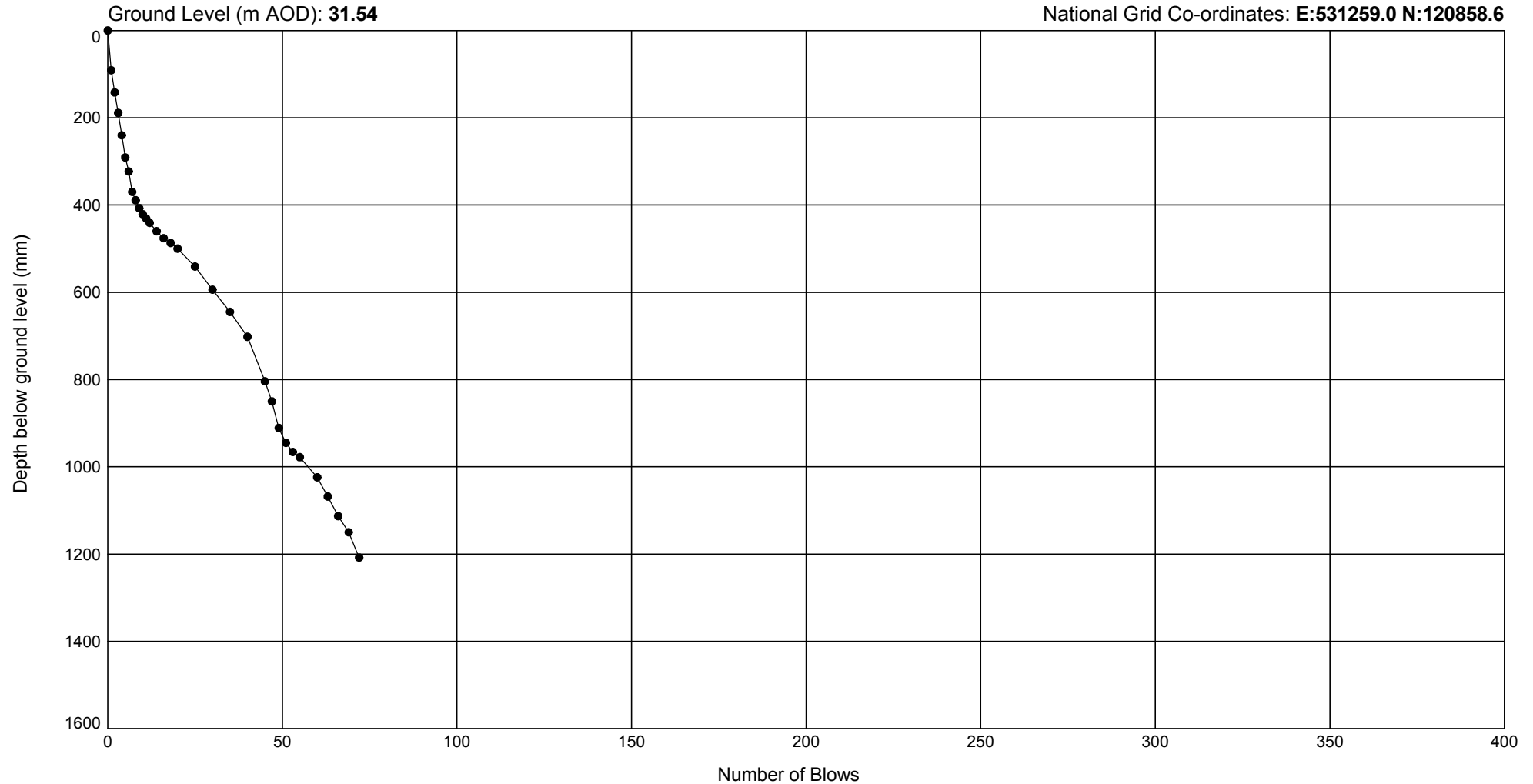
GINT_LIBRARY_v8_07.GLB LibVersion: v8_07_001 PjVersion: v8_07 | Graph 1 - BLOWS VS DEPTH - A4L | 562943_HE_NORTH_ARC_BURGESS_HILL_FREEKS_FARM&LINK_ROAD_GI.GPJ

DCP TEST RESULTS - DEPTH vs NUMBER OF BLOWS

Position Ref : **TRL115**

Test Date : **12.04.19**

National Grid Co-ordinates: **E:531259.0 N:120858.6**



Compiled By

Date

Checked By

Date

Contract Ref:

12/06/19

Contract

562943

HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI

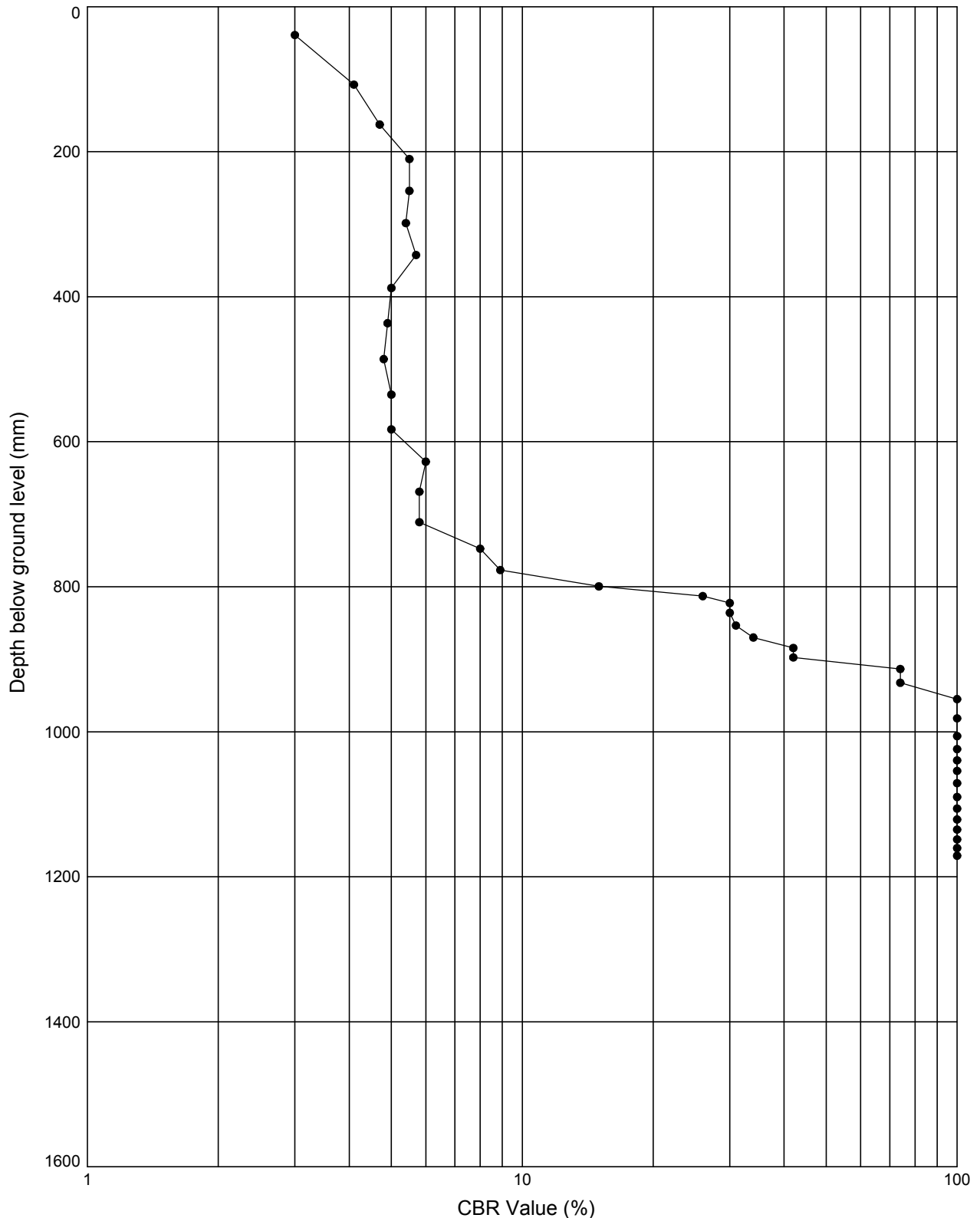
DCP TEST RESULTS - DEPTH vs CBR VALUE

Position Ref : **TRL116**

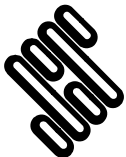
Test Date : **11.04.19**

Ground Level (m AOD): **26.97**

National Grid Co-ordinates: **E:531517.9 N:121009.1**



Notes: CBR values calculated after TRRL Road Note 8 method. Values over 100% are plotted on the 100% line.



Compiled By

Date

Checked By

Date

12/06/19

Contract

**HE Northern Arc, Burgess Hill -
Frees Farm & Link Road GI**

Contract Ref:

562943

GINT_LIBRARY_v8_07.GLB LibVersion: v8_07_001 PjVersion: v8_07 | Graph 1 - BLOWS VS DEPTH - A4L | 562943_HE_NORTH_ARC_BURGESS_HILL_FREEKS_FARM&LINK_ROAD_GI.GPJ

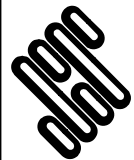
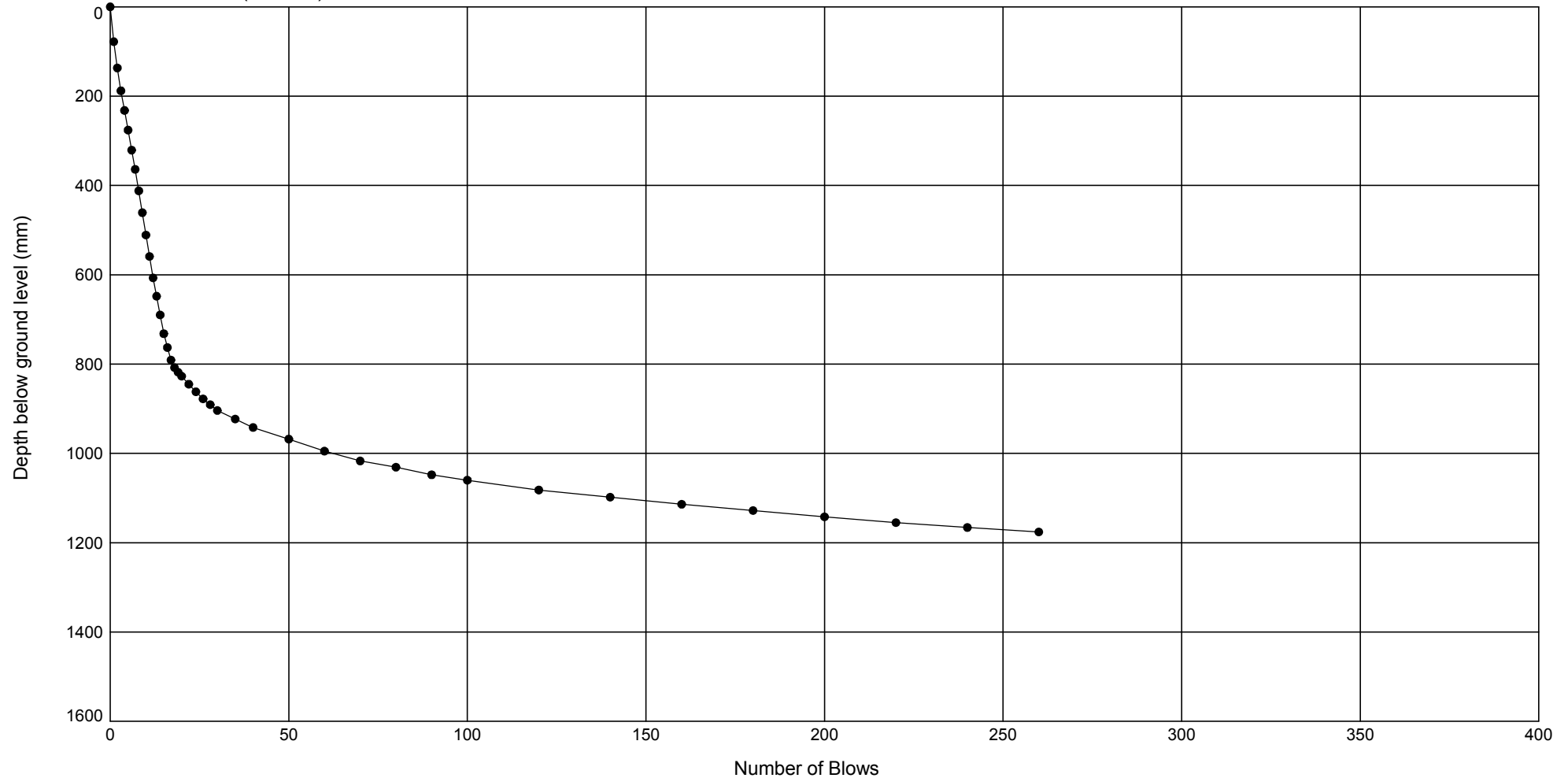
DCP TEST RESULTS - DEPTH vs NUMBER OF BLOWS

Position Ref : **TRL116**

Test Date : **11.04.19**

National Grid Co-ordinates: **E:531517.9 N:121009.1**

Ground Level (m AOD): **26.97**



Compiled By

Date

Checked By

Date

Contract Ref:

12/06/19

Contract

562943

HE Northern Arc, Burgess Hill - Freeks Farm & Link Road GI

APPENDIX D - GEOTECHNICAL LABORATORY TESTING

- (i) Laboratory Test Verification Sheet
- (ii) Laboratory Test Results

TESTING VERIFICATION CERTIFICATE



1774

The test results included in this report are certified as:-

ISSUE STATUS: **FINAL**

In accordance with the Structural Soils Ltd Laboratory Quality Management System, results sheets and summaries of results issued by the laboratory are checked by an approved signatory. The integrity of the test data and results are ensured by control of the computer system employed by the laboratory as part of the Software Verification Program as detailed in the Laboratory Quality Manual.

This testing verification certificate covers all testing compiled on or before the following datetime: **30/06/2019 20:13:38**.

Testing reported after this date is not covered by this Verification Certificate.

Approved Signatory
Sharon Cairns (Laboratory Manager)

(Head Office)
Bristol Laboratory
Unit 1A, Princess Street
Bedminster
Bristol
BS3 4AG

Castleford Laboratory
The Potteries, Pottery Street
Castleford
West Yorkshire
WF10 1NJ

Hemel Laboratory
18 Frogmore Road
Hemel Hempstead
Hertfordshire
HP3 9RT

Tonbridge Laboratory
Anerley Court, Half Moon Lane
Hildenborough
Tonbridge
TN11 9HU



**STRUCTURAL
SOILS LTD**

Contract:

**HE Northern Arc, Burgess Hill -
Frecks Farm GI**

Job No:

562943



SUMMARY OF SOIL CLASSIFICATION TESTS

In accordance with clauses 3.2,4.3,4.4,5.3,5.4,7.2,8.2,8.3 of BS1377:Part 2:1990

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Moisture Content %	Liquid Limit %	Plastic Limit %	Plasticity Index	% <425um	Description of Sample
BH101	1	D	0.30	25	45	24	21	98	Yellowish brown slightly gravelly silty CLAY
BH101	3	B	0.90	23	49	23	26	83	Yellowish brown slightly gravelly silty CLAY
BH102	3	B	1.20	20	43	22	21	97	Orangish brown slightly gravelly CLAY
BH103		D	0.40	20	29	20	9	97	Brown mottled orange and grey clayey SAND
BH105	2	B	0.40	19	34	18	16	78	Brown mottled orange slightly gravelly sandy SILT. Gravel is siltstone
BH105		B	2.20	19	40	17	23	100	Light brown mottled reddish brown slightly sandy CLAY
BH105		D	4.00	16	39	22	17	99	Grey mottled greenish grey slightly gravelly silty CLAY
BH105		D	4.00	16	45	22	23	98	Grey mottled brown slightly gravelly CLAY



**STRUCTURAL
SOILS LTD**

Contract:

HE Northern Arc, Burgess Hill - Freeks Farm GI

Contract Ref:

562943



SUMMARY OF SOIL CLASSIFICATION TESTS

In accordance with clauses 3.2,4.3,4.4,5.3,5.4,7.2,8.2,8.3 of BS1377:Part 2:1990

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Moisture Content %	Liquid Limit %	Plastic Limit %	Plasticity Index	% <425um	Description of Sample
BH106		D	1.20	27	57	23	34	73	Light brown mottled light grey slightly sandy slightly gravelly CLAY
TP101	5	D	0.30	26	40	23	17	100	Brown mottled orange and grey slightly sandy clayey SILT
TP101	12	D	1.20	24	59	26	33	82	Dark orangish brown mottled grey slightly sandy slightly gravelly silty CLAY
TP102	7	D	0.80	29	57	27	30	100	Brown mottled orange and grey slightly sandy silty CLAY
TP102	12	D	1.45	16	41	25	16	44	Grey mottled orangish brown gravelly SILT. Gravel is siltstone
TP103	5	D	0.30	27	44	25	19	85	Brown mottled orange and grey slightly sandy slightly gravelly CLAY
TP103	11	D	1.10	25	65	29	36	96	Orangish brown mottled grey sandy CLAY
TP104	10	D	1.20	18	40	22	18	88	Brown mottled orange and grey slightly sandy slightly gravelly SILT. Gravel is siltstone



**STRUCTURAL
SOILS LTD**

Contract:

HE Northern Arc, Burgess Hill - Freeks Farm GI

Contract Ref:

562943



SUMMARY OF SOIL CLASSIFICATION TESTS

In accordance with clauses 3.2,4.3,4.4,5.3,5.4,7.2,8.2,8.3 of BS1377:Part 2:1990

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Moisture Content %	Liquid Limit %	Plastic Limit %	Plasticity Index	% <425um	Description of Sample
TP105	5	D	0.35	20	40	19	21	100	Brown mottled orange and grey CLAY
TP105	10	D	1.50	15	NP	NP	NP	39	Grey mottled orangish brown very silty GRAVEL. Gravel is siltstone
TP106	9	D	0.80	19	29	17	12	83	Brown mottled orange and grey slightly sandy slightly gravelly clayey SILT. Gravel is siltstone
TP107	5	D	0.40	18	32	20	12	78	Brown mottled orange and grey slightly sandy slightly gravelly SILT. Gravel is siltstone
TP108	4	D	0.20	20	41	21	20	91	Orangish brown mottled grey slightly sandy slightly gravelly clayey SILT
TP109	5	D	0.40	25	56	25	31	99	Brown mottled orange and grey slightly sandy slightly gravelly CLAY
TP111	5	D	0.40	20	38	20	18	94	Brown mottled orange and gey slightly gravelly sandy SILT
TP112	14	D	2.80	18	50	24	26	89	Grey mottled orangish brown slightly gravelly CLAY



**STRUCTURAL
SOILS LTD**

Contract:

HE Northern Arc, Burgess Hill - Freeks Farm GI

Contract Ref:

562943



SUMMARY OF SOIL CLASSIFICATION TESTS

In accordance with clauses 3.2,4.3,4.4,5.3,5.4,7.2,8.2,8.3 of BS1377:Part 2:1990

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Moisture Content %	Liquid Limit %	Plastic Limit %	Plasticity Index	% <425um	Description of Sample
TP113	17	D	2.90	24	62	29	33	78	Brown mottled grey and orange slightly sandy slightly gravelly CLAY
TP114	7	D	0.80	32	84	34	50	100	Orangish brown mottled grey CLAY
TP115	5	D	0.50	23	38	21	17	100	Orangish brown sandy CLAY
TP116	9	D	1.10	17	44	25	19	43	Brown mottled grey and orange very silty GRAVEL. Gravel is laminated siltstone
WS103	8	D	1.40	16	45	24	21	94	Grey mottled brown slightly sandy clayey SILT
WS105	5	D	0.30	31	64	31	33	91	Brown mottled orange and grey slightly gravelly clayey SILT
WS106	8D + 11D	AMAL	1.00	22	55	26	29	93	Brown mottled orange and grey sandy CLAY
									Amalgamation date: 31/05/2019. Amalgamation by: 14/6/19. Amalgamation comprises: WS106 Depth:1.00 Ref:8
									Type:D + WS106 Depth:1.20 Ref:11 Type:D



**STRUCTURAL
SOILS LTD**

Contract:

HE Northern Arc, Burgess Hill - Freeks Farm GI

Contract Ref:

562943



SUMMARY OF SOIL CLASSIFICATION TESTS

In accordance with clauses 3.2,4.3,4.4,5.3,5.4,7.2,8.2,8.3 of BS1377:Part 2:1990

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Moisture Content %	Liquid Limit %	Plastic Limit %	Plasticity Index	% <425um	Description of Sample
WS107	5	D	0.40	18	32	19	13	99	Brown mottled orange and grey slightly sandy CLAY
WS108	7	D	0.90	28	59	29	30	100	Orangish brown mottled grey silty CLAY
WS111	5	D	0.40	23	43	19	24	99	Brown mottled orange and grey slightly sandy clayey SILT
WS112	8	D	1.20	14	31	19	12	78	Orangish brown mottled grey slightly sandy slightly gravelly clayey SILT
WS114	9D + 11D	AMAL	1.00	21	50	23	27	91	Brown mottled orange and grey slightly sandy CLAY
									Amalgamation date: 31/05/2019. Amalgamation by: Richard Ashby. Amalgamation comprises: WS114 Depth:1.00
									Ref:9 Type:D + WS114 Depth:1.20 Ref:11 Type:D
WS117	5	D	0.40	22	35	20	15	100	Orangish brown mottled grey sandy clayey SILT
WS120	5	D	0.40	29	55	28	27	100	Grey mottled orangish brown CLAY



**STRUCTURAL
SOILS LTD**

Contract:

HE Northern Arc, Burgess Hill - Freeks Farm GI

Contract Ref:

562943

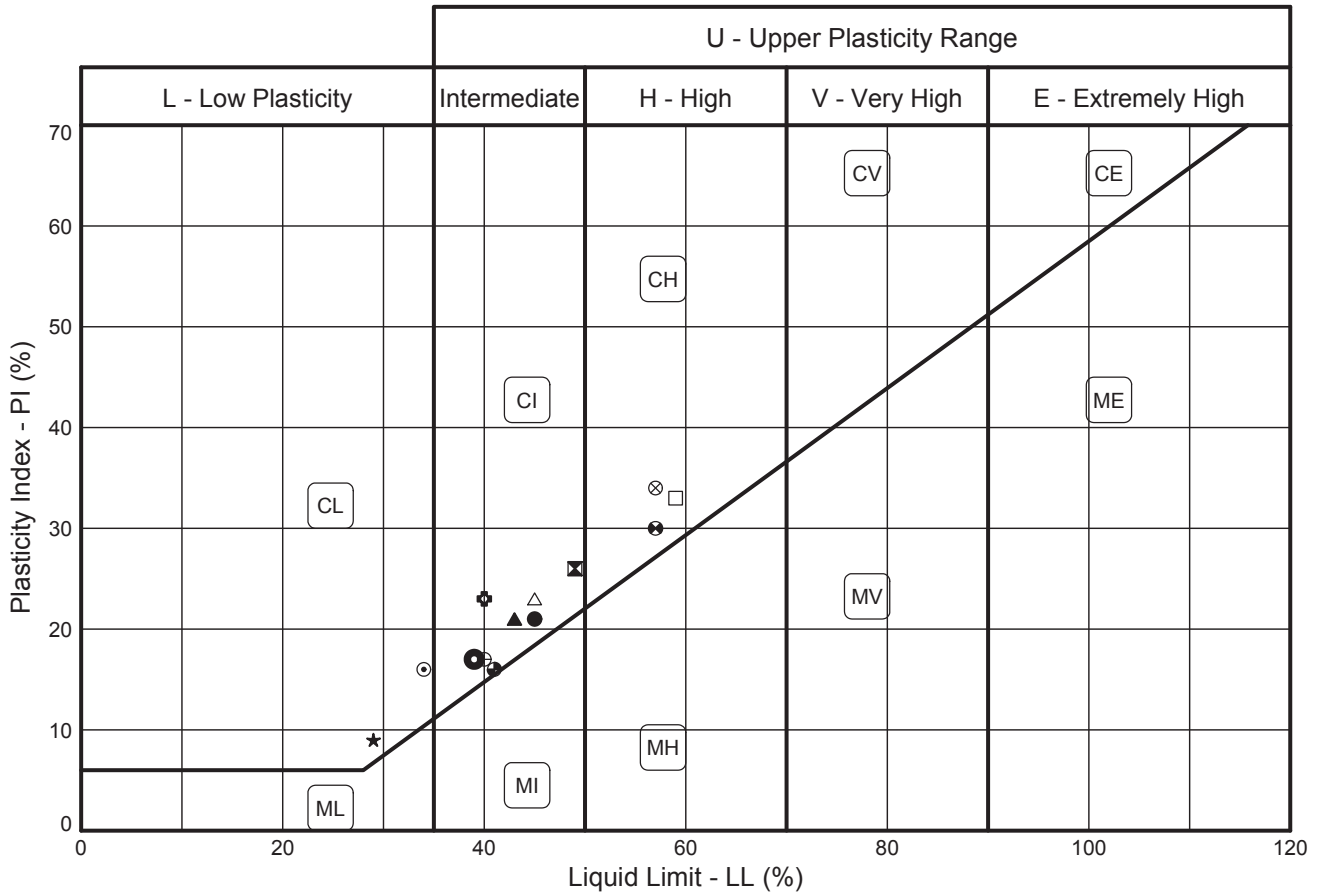


In accordance with clauses 3.2,4.3,4.4,5.3,5.4,7.2,8.2,8.3 of BS1377:Part 2:1990

 STRUCTURAL SOILS LTD	Contract: HE Northern Arc, Burgess Hill - Freeks Farm GI	Contract Ref: 562943 
--	--	--

PLASTICITY CHART - PI Vs LL

In accordance with BS5930:2015
Testing in accordance with BS1377-2:1990



Sample Identification				BS Test Method #	Preparation Method +	MC %	LL %	PL %	PI %	<425um %	Lab location
Exploratory Position ID	Sample	Depth (m)									
●	BH101	1D	0.30	3.2/4.3/5.3/5.4	4.2.3	25	45	24	21	98	B
⊠	BH101	3B	0.90	3.2/4.3/5.3/5.4	4.2.4	23	49	23	26	83	B
▲	BH102	3B	1.20	3.2/4.3/5.3/5.4	4.2.3	20	43	22	21	97	B
★	BH103	D	0.40	3.2/4.3/5.3/5.4	4.2.4	20	29	20	9	97	T
⊙	BH105	2B	0.40	3.2/4.3/5.3/5.4	4.2.4	19	34	18	16	78	T
⊕	BH105	B	2.20	3.2/4.3/5.3/5.4	4.2.3	19	40	17	23	100	B
⊗	BH105	D	4.00	3.2/4.3/5.3/5.4	4.2.4	16	39	22	17	99	B
△	BH105	D	4.00	3.2/4.3/5.3/5.4	4.2.4	16	45	22	23	98	T
⊗	BH106	D	1.20	3.2/4.3/5.3/5.4	4.2.4	27	57	23	34	73	B
⊕	TP101	5D	0.30	3.2/4.3/5.3/5.4	4.2.4	26	40	23	17	100	T
□	TP101	12D	1.20	3.2/4.3/5.3/5.4	4.2.4	24	59	26	33	82	T
⊗	TP102	7D	0.80	3.2/4.3/5.3/5.4	4.2.3	29	57	27	30	100	T
⊕	TP102	12D	1.45	3.2/4.3/5.3/5.4	4.2.4	16	41	25	16	44	T

Tested in accordance with the following clauses of BS1377-2:1990.

3.2 - Moisture Content
4.3 - Cone Penetrometer Method
4.4 - One Point Cone Penetrometer Method
4.6 - One Point Casagrande Method
5.3 - Plastic Limit Method
5.4 - Plasticity Index

+ Tested in accordance with the following clauses of BS1377-2:1990.

4.2.3 - Natural State
4.2.4 - Wet Sieved

Key: * = Non-standard test, NP = Non plastic.

Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tonbridge (TN11 9HU)



**STRUCTURAL
SOILS LTD**

Compiled By

Date

SHARON CAIRNS

23/06/19

Contract

Contract Ref:

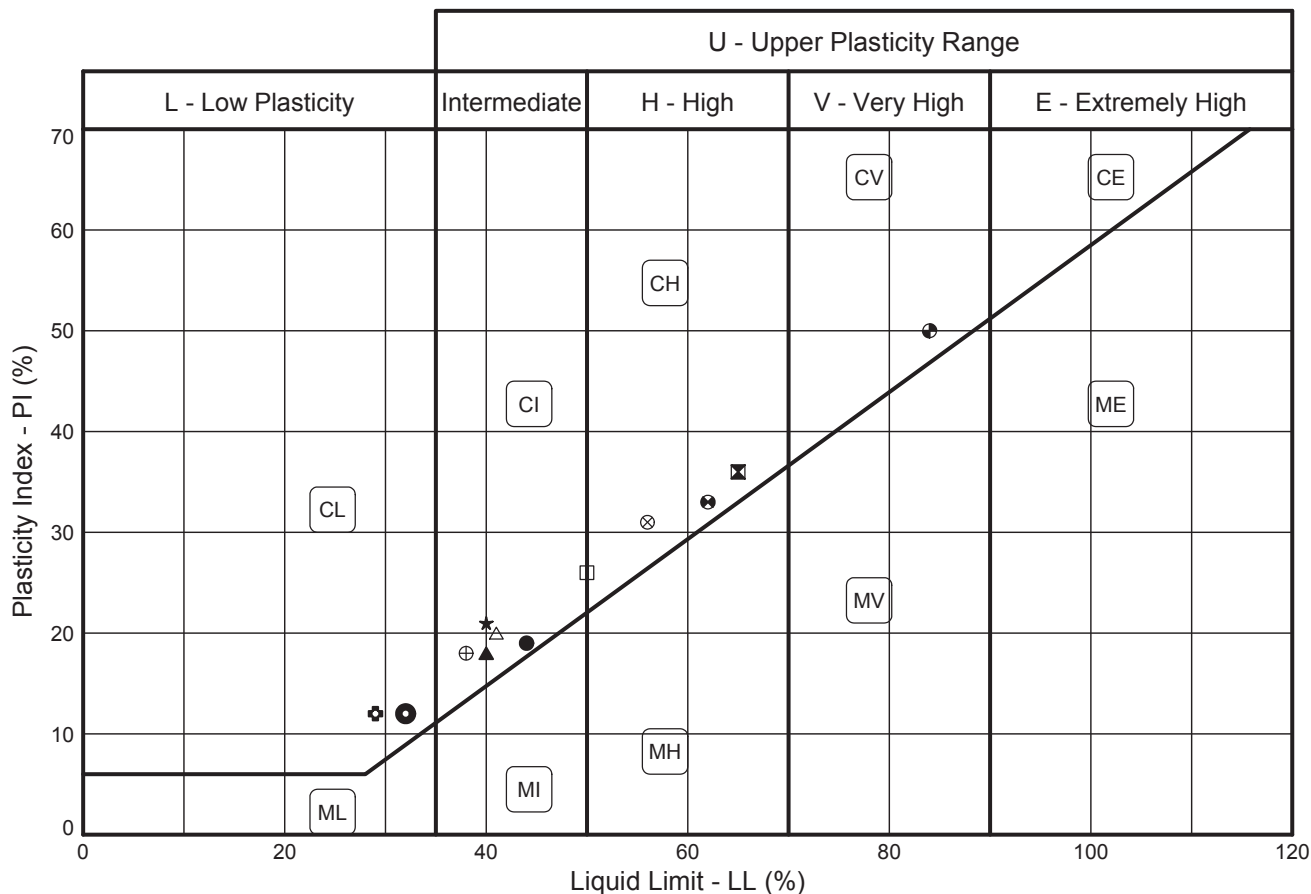
**HE Northern Arc, Burgess Hill -
Freeks Farm Gl**

562943



PLASTICITY CHART - PI Vs LL

In accordance with BS5930:2015
Testing in accordance with BS1377-2:1990



Sample Identification				BS Test Method #	Preparation Method +	MC %	LL %	PL %	PI %	<425um %	Lab location
Exploratory Position ID	Sample	Depth (m)									
●	TP103	5D	0.30	3.2/4.3/5.3/5.4	4.2.4	27	44	25	19	85	T
⊠	TP103	11D	1.10	3.2/4.3/5.3/5.4	4.2.4	25	65	29	36	96	T
▲	TP104	10D	1.20	3.2/4.3/5.3/5.4	4.2.4	18	40	22	18	88	T
★	TP105	5D	0.35	3.2/4.3/5.3/5.4	4.2.3	20	40	19	21	100	T
	TP105	10D	1.50	3.2/4.3/5.3/5.4	4.2.4	15	NP	NP	NP	39	T
⊕	TP106	9D	0.80	3.2/4.3/5.3/5.4	4.2.4	19	29	17	12	83	T
⊙	TP107	5D	0.40	3.2/4.3/5.3/5.4	4.2.4	18	32	20	12	78	T
△	TP108	4D	0.20	3.2/4.3/5.3/5.4	4.2.4	20	41	21	20	91	T
⊗	TP109	5D	0.40	3.2/4.3/5.3/5.4	4.2.4	25	56	25	31	99	T
⊕	TP111	5D	0.40	3.2/4.3/5.3/5.4	4.2.4	20	38	20	18	94	T
□	TP112	14D	2.80	3.2/4.3/5.3/5.4	4.2.4	18	50	24	26	89	T
⊗	TP113	17D	2.90	3.2/4.3/5.3/5.4	4.2.4	24	62	29	33	78	T
⊕	TP114	7D	0.80	3.2/4.3/5.3/5.4	4.2.3	32	84	34	50	100	T

Tested in accordance with the following clauses of BS1377-2:1990.

3.2 - Moisture Content
4.3 - Cone Penetrometer Method
4.4 - One Point Cone Penetrometer Method
4.6 - One Point Casagrande Method
5.3 - Plastic Limit Method
5.4 - Plasticity Index

+ Tested in accordance with the following clauses of BS1377-2:1990.

4.2.3 - Natural State
4.2.4 - Wet Sieved

Key: * = Non-standard test, NP = Non plastic.

Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tonbridge (TN11 9HU)



**STRUCTURAL
SOILS LTD**

Compiled By

Date

SHARON CAIRNS

23/06/19

Contract

Contract Ref:

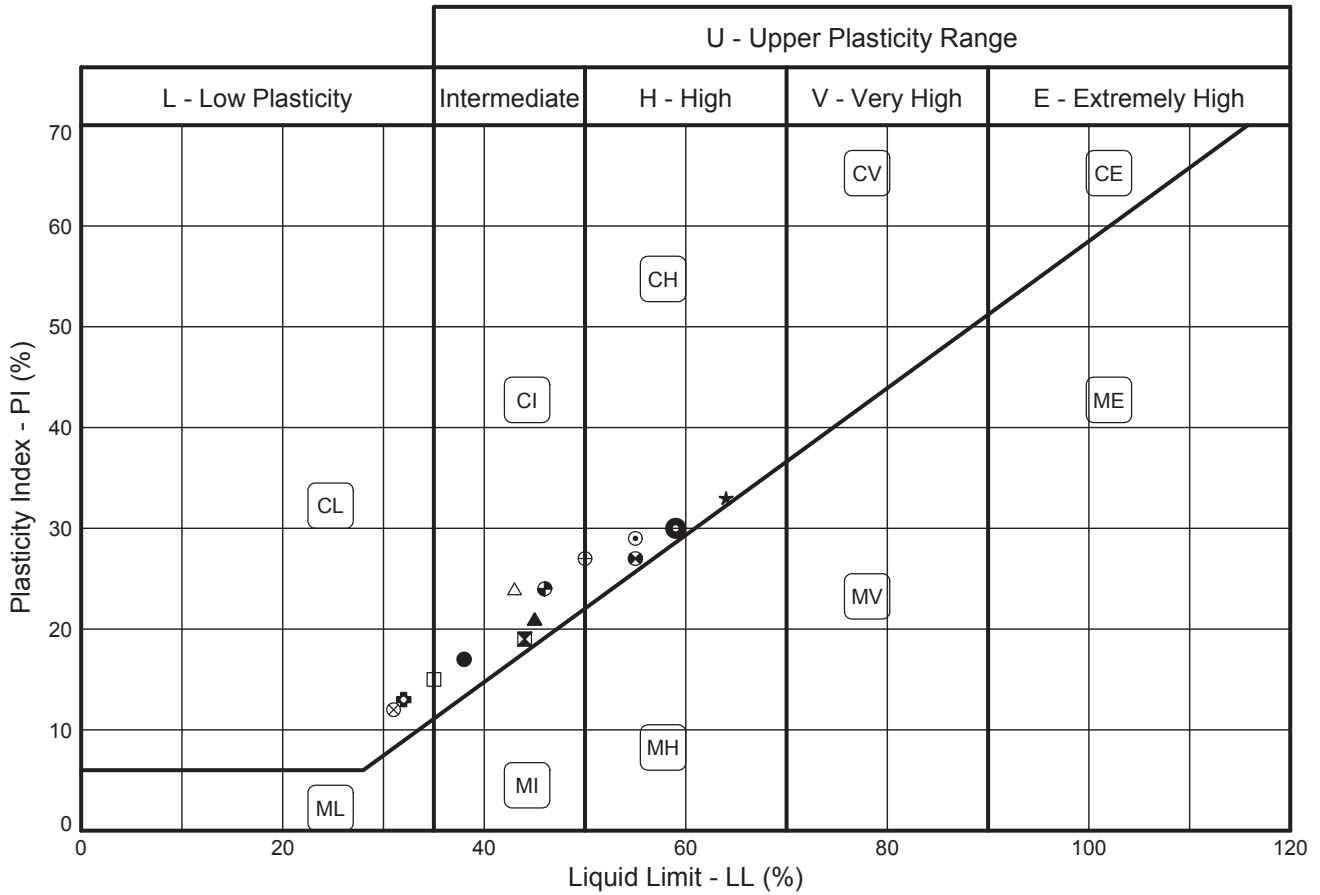
**HE Northern Arc, Burgess Hill -
Freeks Farm GI**

562943



PLASTICITY CHART - PI Vs LL

In accordance with BS5930:2015
Testing in accordance with BS1377-2:1990



Sample Identification				BS Test Method #	Preparation Method +	MC %	LL %	PL %	PI %	<425um %	Lab location
Exploratory Position ID	Sample	Depth (m)									
●	TP115	5D	0.50	3.2/4.3/5.3/5.4	4.2.3	23	38	21	17	100	T
⊠	TP116	9D	1.10	3.2/4.3/5.3/5.4	4.2.4	17	44	25	19	43	T
▲	WS103	8D	1.40	3.2/4.3/5.3/5.4	4.2.4	16	45	24	21	94	T
★	WS105	5D	0.30	3.2/4.3/5.3/5.4	4.2.4	31	64	31	33	91	T
⊙	WS108D + 11DAMAL	1.00		3.2/4.3/5.3/5.4	4.2.4	22	55	26	29	93	T
⊕	WS107	5D	0.40	3.2/4.3/5.3/5.4	4.2.4	18	32	19	13	99	T
⊗	WS108	7D	0.90	3.2/4.3/5.3/5.4	4.2.3	28	59	29	30	100	T
△	WS111	5D	0.40	3.2/4.3/5.3/5.4	4.2.4	23	43	19	24	99	T
⊗	WS112	8D	1.20	3.2/4.3/5.3/5.4	4.2.4	14	31	19	12	78	T
⊕	WS114D + 11DAMAL	1.00		3.2/4.3/5.3/5.4	4.2.4	21	50	23	27	91	T
□	WS117	5D	0.40	3.2/4.3/5.3/5.4	4.2.4	22	35	20	15	100	T
⊗	WS120	5D	0.40	3.2/4.3/5.3/5.4	4.2.4	29	55	28	27	100	T
⊕	WS121	7D	1.00	3.2/4.3/5.3/5.4	4.2.4	24	46	22	24	90	T

Tested in accordance with the following clauses of BS1377-2:1990.

3.2 - Moisture Content
4.3 - Cone Penetrometer Method
4.4 - One Point Cone Penetrometer Method
4.6 - One Point Casagrande Method
5.3 - Plastic Limit Method
5.4 - Plasticity Index

+ Tested in accordance with the following clauses of BS1377-2:1990.

4.2.3 - Natural State
4.2.4 - Wet Sieved

Key: * = Non-standard test, NP = Non plastic.

Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tonbridge (TN11 9HU)



**STRUCTURAL
SOILS LTD**

Compiled By

Date

SHARON CAIRNS

23/06/19

Contract

Contract Ref:

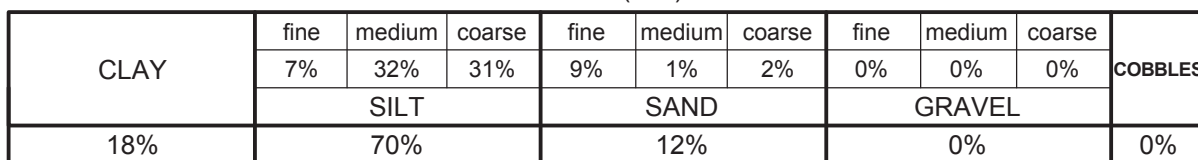
**HE Northern Arc, Burgess Hill -
Freeks Farm Gl**

562943

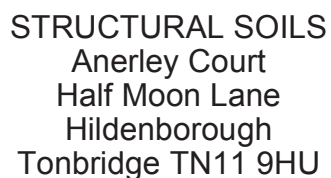


In accordance with clauses 9.2, 9.4 of BS1377:Part 2:1990

Depth (m): **0.80**



Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2



Date _____

23/06/19

Contract Ref:

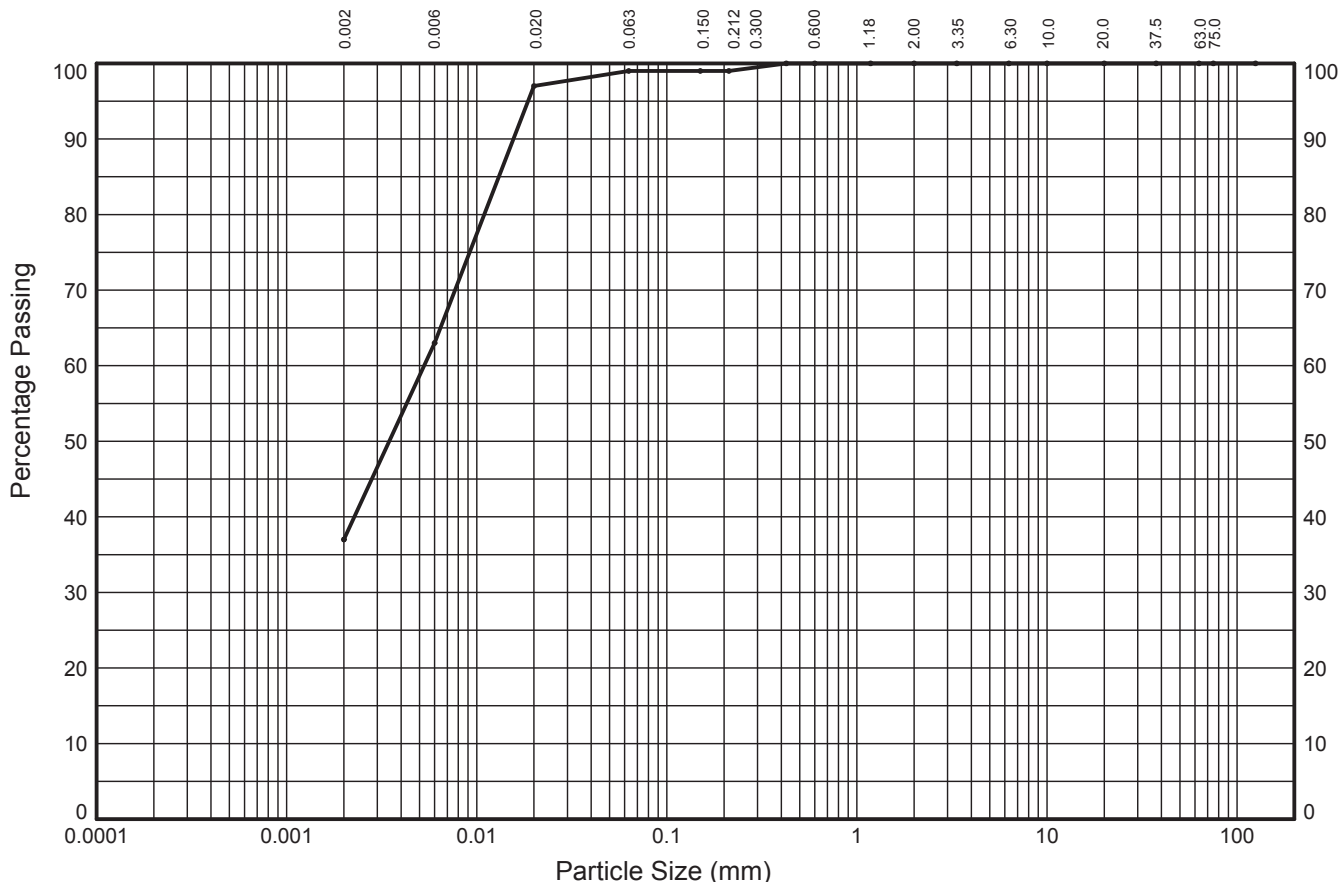
562943



PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2, 9.4 of BS1377:Part 2:1990

Trial Pit: **TP101** Sample Ref: **4** Sample Type: **B** Depth (m): **0.30**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	27%	33%	2%	0%	1%	0%	0%	0%	0%	
	SILT			SAND			GRAVEL			
37%	62%			1%			0%			0%

Test Sieve (mm)	Percent Passing (%)	Particle Diameter (mm)	Percent Passing (%)	Coefficients	
125.0	100	0.02	97	D ₁₀ (mm)	NA
75.0	100			D ₁₅ (mm)	NA
63.0	100			D ₃₀ (mm)	NA
37.5	100	0.006	63	D ₅₀ (mm)	0.003
20.0	100			D ₆₀ (mm)	0.005
10.0	100			D ₈₅ (mm)	0.013
6.30	100	0.002	37	D ₉₀ (mm)	0.016
3.35	100			C _U	NA
2.00	100			C _C	NA
1.18	100	Sedimentation sample was not pre-treated			
0.600	100				
0.425	100				
0.212	99				
0.150	99				
0.063	99	Soil Description: Brown mottled orange and grey slightly sandy clayey SILT			

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2



STRUCTURAL SOILS
Anerley Court
Half Moon Lane
Hildenborough
Tonbridge TN11 9HU

Compiled By		Date
SHARON CAIRNS		23/06/19
Contract		Contract Ref:
HE Northern Arc, Burgess Hill - Freeks Farm GI		562943



PARTICLE SIZE DISTRIBUTION TEST

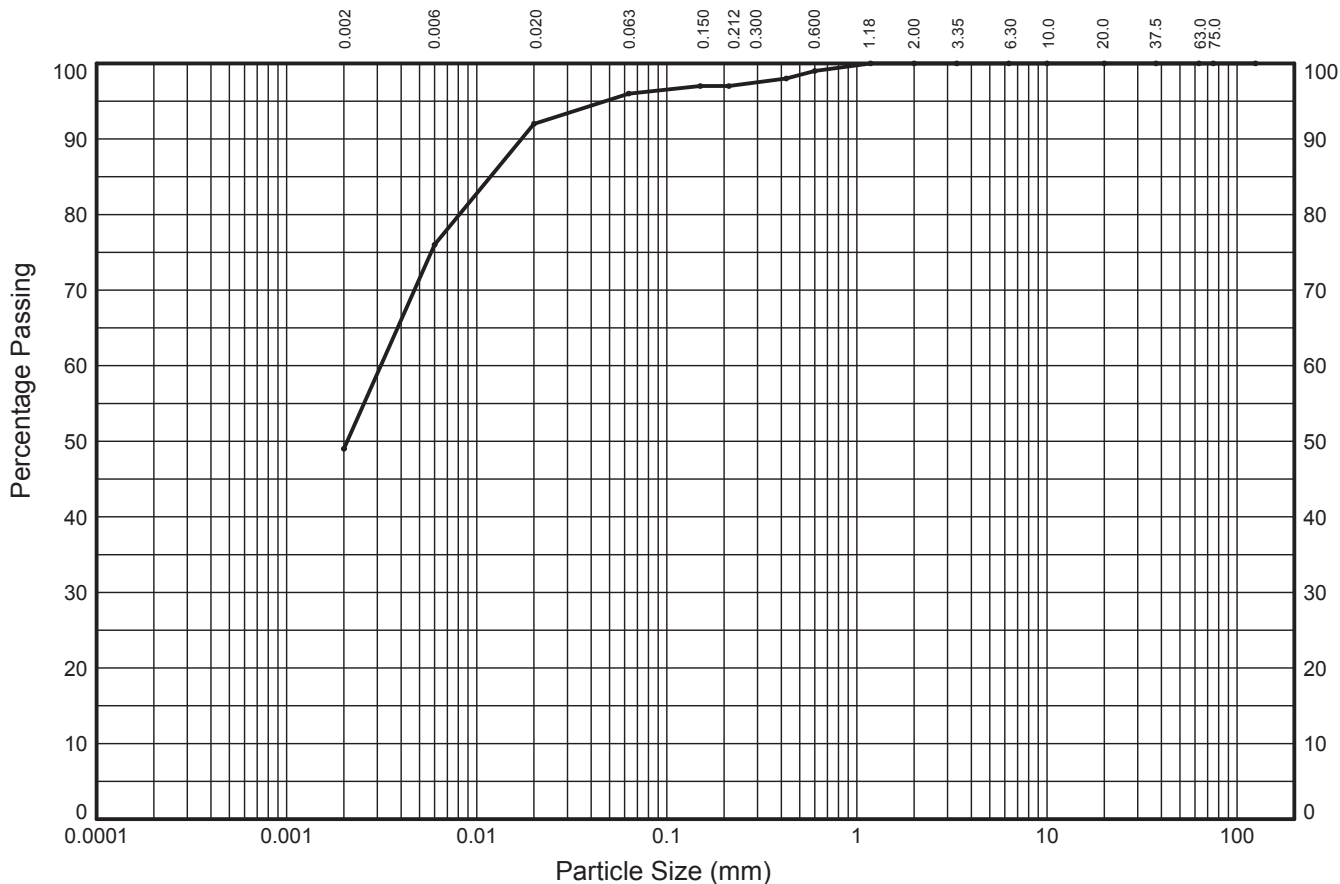
In accordance with clauses 9.2, 9.4 of BS1377:Part 2:1990

Trial Pit: **TP101**

Sample Ref: **11**

Sample Type: **B**

Depth (m): **1.20**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	27%	16%	4%	1%	2%	1%	0%	0%	0%	
	SILT			SAND			GRAVEL			
49%	47%			4%			0%			0%

Test Sieve (mm)	Percent Passing (%)
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	100
3.35	100
2.00	100
1.18	100
0.600	99
0.425	98
0.212	97
0.150	97
0.063	96

Particle Diameter (mm)	Percent Passing (%)
0.02	92
0.006	76
0.002	49
Sedimentation sample was not pre-treated	

Coefficients	
D ₁₀ (mm)	NA
D ₁₅ (mm)	NA
D ₃₀ (mm)	NA
D ₅₀ (mm)	0.002
D ₆₀ (mm)	0.003
D ₈₅ (mm)	0.012
D ₉₀ (mm)	0.017
C _U	NA
C _C	NA

Soil Description:

Orangish brown mottled grey slightly sandy silty CLAY

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2



STRUCTURAL SOILS
Anerley Court
Half Moon Lane
Hildenborough
Tonbridge TN11 9HU

Compiled By

Date

SHARON CAIRNS

23/06/19

Contract

Contract Ref:

**HE Northern Arc, Burgess Hill -
Freeks Farm GI**

562943



In accordance with clauses 9.2, 9.4 of BS1377:Part 2:1990

Particle Size (mm)	Percentage Passing (%)
0.002	25
0.006	55
0.020	97
0.063	100
0.150	100
0.212	100
0.300	100
0.600	100
1.18	100
2.00	100
3.35	100
6.30	100
10.0	100
20.0	100
37.5	100
63.0	100
75.0	100

Test Sieve (mm)	Percent Passing (%)	Particle Diameter (mm)	Percent Passing (%)	Coefficients		
125.0	100	0.02	96	D ₁₀ (mm)	NA	
75.0	100			D ₁₅ (mm)	NA	
63.0	100	0.006	56	D ₃₀ (mm)	0.002	
37.5	100			D ₅₀ (mm)	0.005	
20.0	100			D ₆₀ (mm)	0.007	
10.0	100			D ₈₅ (mm)	0.014	
6.30	100	0.002	25	D ₉₀ (mm)	0.017	
3.35	100					
2.00	100	Sedimentation sample was not pre-treated			C _U	NA
1.18	100				C _C	NA
0.600	100	Soil Description: Brown mottled orange and grey slightly sandy clayey SILT				
0.425	100					
0.212	99					
0.150	99					
0.063	99					

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2



STRUCTURAL SOILS
Anerley Court
Half Moon Lane
Hildenborough
Tonbridge TN11 9HU

Compiled By

Date _____

SHARON CAIRNS

23/06/19

Contract

Contract Ref:

HE Northern Arc, Burgess Hill - Frecks Farm GI

562943



PARTICLE SIZE DISTRIBUTION TEST

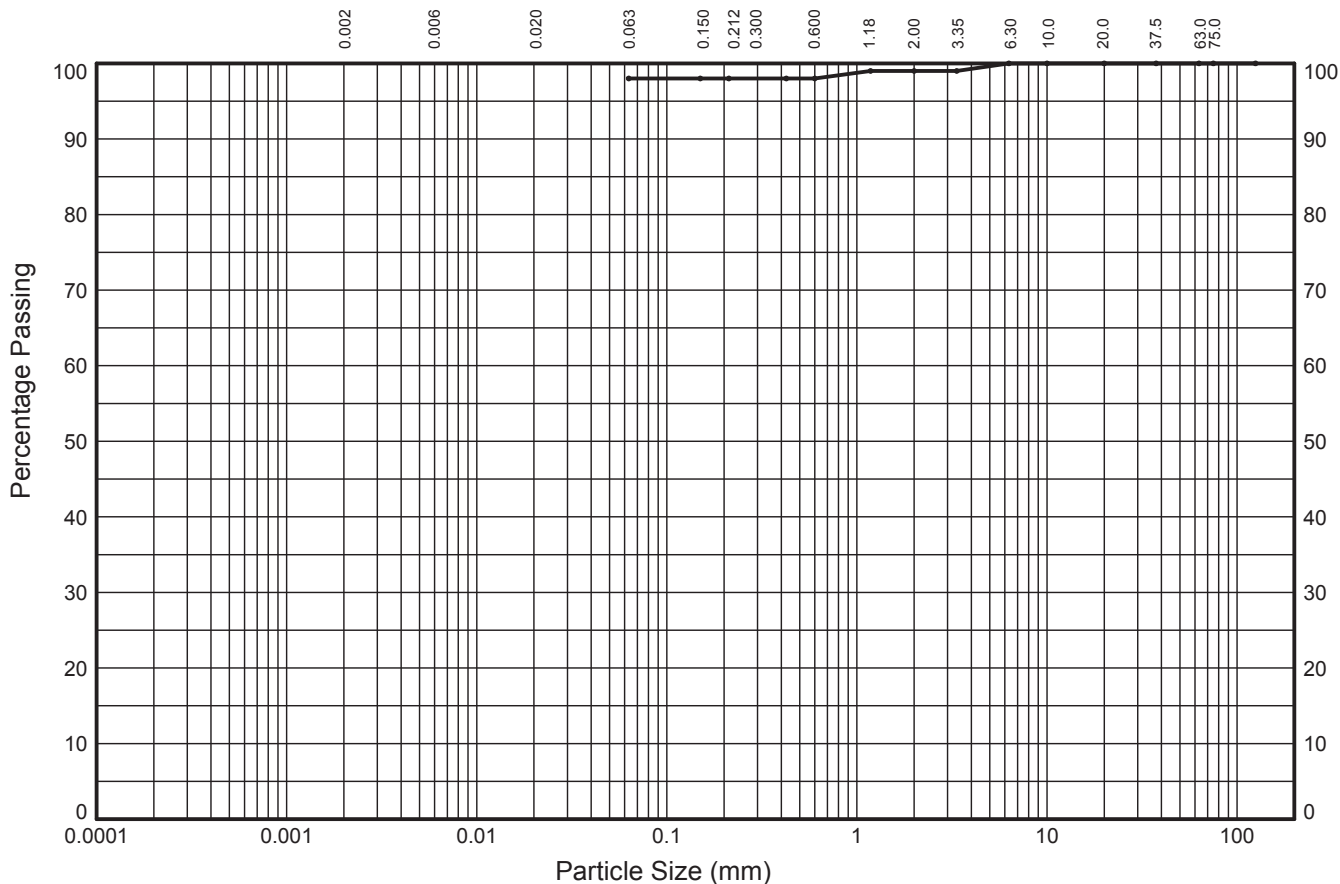
In accordance with clauses 9.2 of BS1377:Part 2:1990

Trial Pit: **TP103**

Sample Ref: **4**

Sample Type: **B**

Depth (m): **0.30**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	-	-	-	0%	0%	1%	1%	0%	0%	
	SILT			SAND			GRAVEL			
98%				1%			1%			0%

Test Sieve (mm)	Percent Passing (%)	Particle Diameter (mm)	Percent Passing (%)	Coefficients	
125.0	100			D ₁₀ (mm)	NA
75.0	100			D ₁₅ (mm)	NA
63.0	100			D ₃₀ (mm)	NA
37.5	100			D ₅₀ (mm)	NA
20.0	100			D ₆₀ (mm)	NA
10.0	100			D ₈₅ (mm)	NA
6.30	100			D ₉₀ (mm)	NA
3.35	99			C _U	NA
2.00	99				
1.18	99			C _C	NA
0.600	98				
0.425	98	Soil Description: Brown mottled orange and grey slightly sandy slightly gravelly SILT			
0.212	98				
0.150	98				
0.063	98				
Sedimentation sample was not pre-treated					

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2



STRUCTURAL SOILS
Anerley Court
Half Moon Lane
Hildenborough
Tonbridge TN11 9HU

Compiled By

Date

SHARON CAIRNS

23/06/19

Contract

Contract Ref:

**HE Northern Arc, Burgess Hill -
Freeks Farm GI**

562943



PARTICLE SIZE DISTRIBUTION TEST

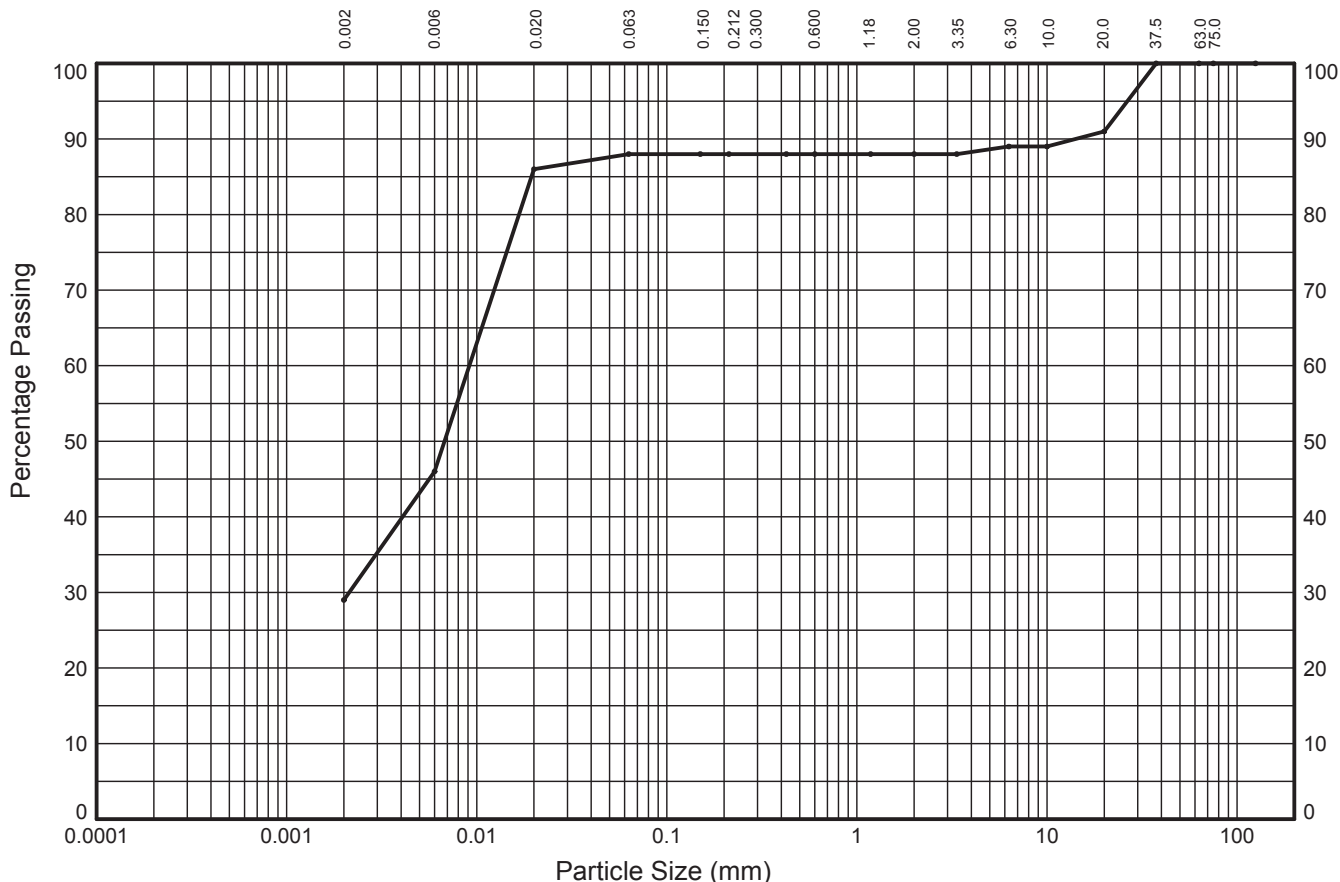
In accordance with clauses 9.2, 9.4 of BS1377:Part 2:1990

Trial Pit: **TP104**

Sample Ref: **9**

Sample Type: **B**

Depth (m): **1.20**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	18%	39%	2%	0%	0%	0%	1%	2%	9%	
	SILT			SAND			GRAVEL			
29%	59%			0%			12%			0%

Test Sieve (mm)	Percent Passing (%)
125.0	100
75.0	100
63.0	100
37.5	100
20.0	91
10.0	89
6.30	89
3.35	88
2.00	88
1.18	88
0.600	88
0.425	88
0.212	88
0.150	88
0.063	88

Particle Diameter (mm)	Percent Passing (%)
0.02	86
0.006	46
0.002	29
Sedimentation sample was not pre-treated	

Coefficients	
D ₁₀ (mm)	NA
D ₁₅ (mm)	NA
D ₃₀ (mm)	0.002
D ₅₀ (mm)	0.007
D ₆₀ (mm)	0.009
D ₈₅ (mm)	0.019
D ₉₀ (mm)	14.142
C _U	NA
C _C	NA

Soil Description:

Brown mottled orange and grey slightly sandy clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2



STRUCTURAL SOILS
Anerley Court
Half Moon Lane
Hildenborough
Tonbridge TN11 9HU

Compiled By

SHARON CAIRNS

Date

23/06/19

Contract

**HE Northern Arc, Burgess Hill -
Freeks Farm GI**

Contract Ref:

562943



PARTICLE SIZE DISTRIBUTION TEST

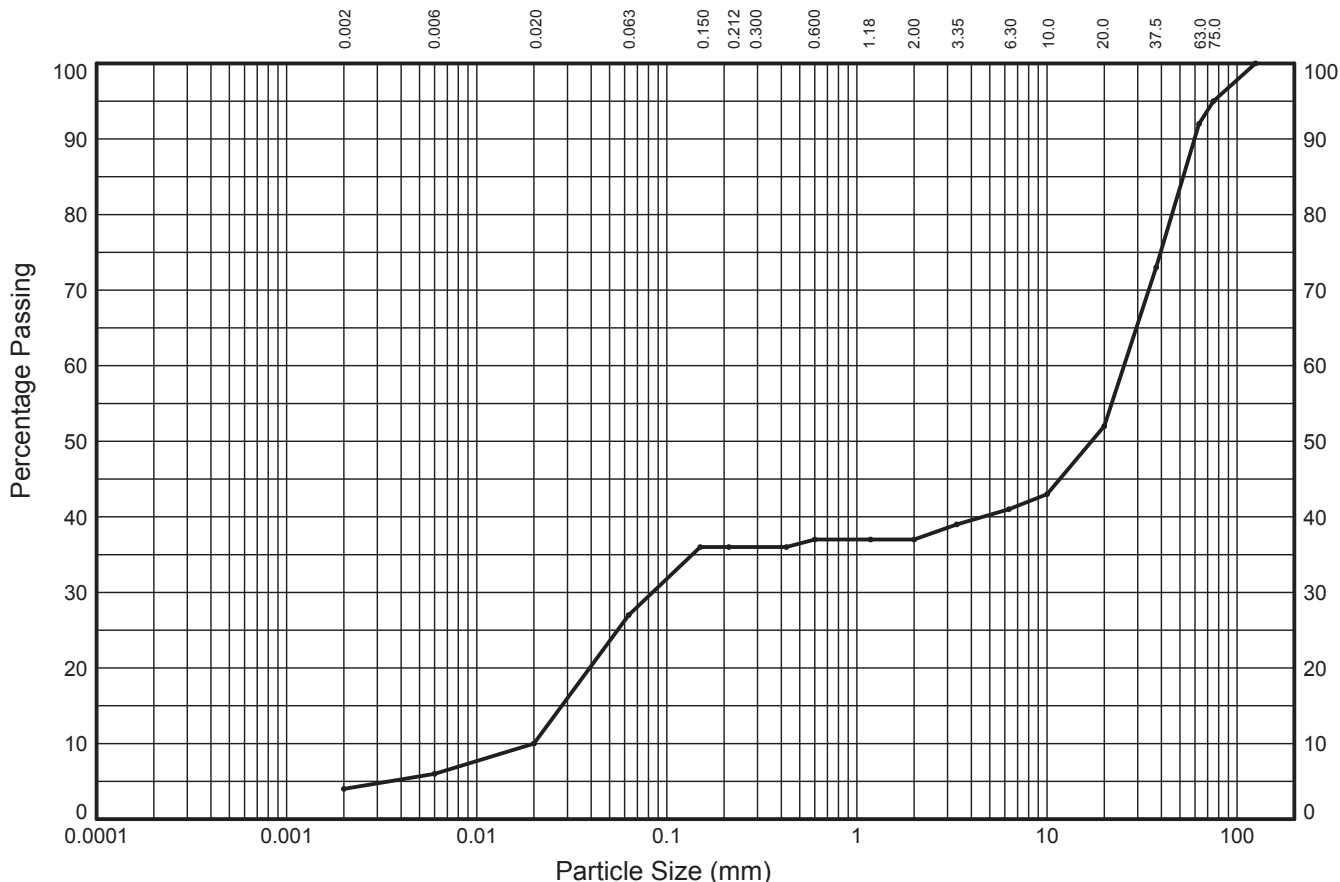
In accordance with clauses 9.2, 9.4 of BS1377:Part 2:1990

Trial Pit: **TP105**

Sample Ref: **9**

Sample Type: **B**

Depth (m): **1.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	2%	4%	17%	9%	1%	0%	4%	11%	40%	
	SILT			SAND			GRAVEL			
4%	23%			10%			55%			8%

Test Sieve (mm)	Percent Passing (%)
125.0	100
75.0	95
63.0	92
37.5	73
20.0	52
10.0	43
6.30	41
3.35	39
2.00	37
1.18	37
0.600	37
0.425	36
0.212	36
0.150	36
0.063	27

Particle Diameter (mm)	Percent Passing (%)
0.02	10
0.006	6
0.002	4
Sedimentation sample was not pre-treated	

Coefficients	
D ₁₀ (mm)	0.020
D ₁₅ (mm)	0.028
D ₃₀ (mm)	0.084
D ₅₀ (mm)	17.145
D ₆₀ (mm)	25.412
D ₈₅ (mm)	52.039
D ₉₀ (mm)	59.652
C _U	1271
C _C	0.01

Soil Description:

Light brown mottled grey and orange sandy very silty GRAVEL with a low cobble content. Gravel/cobble is siltstone

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2



STRUCTURAL SOILS
Anerley Court
Half Moon Lane
Hildenborough
Tonbridge TN11 9HU

Compiled By

Date

SHARON CAIRNS

23/06/19

Contract

Contract Ref:

**HE Northern Arc, Burgess Hill -
Freeks Farm GI**

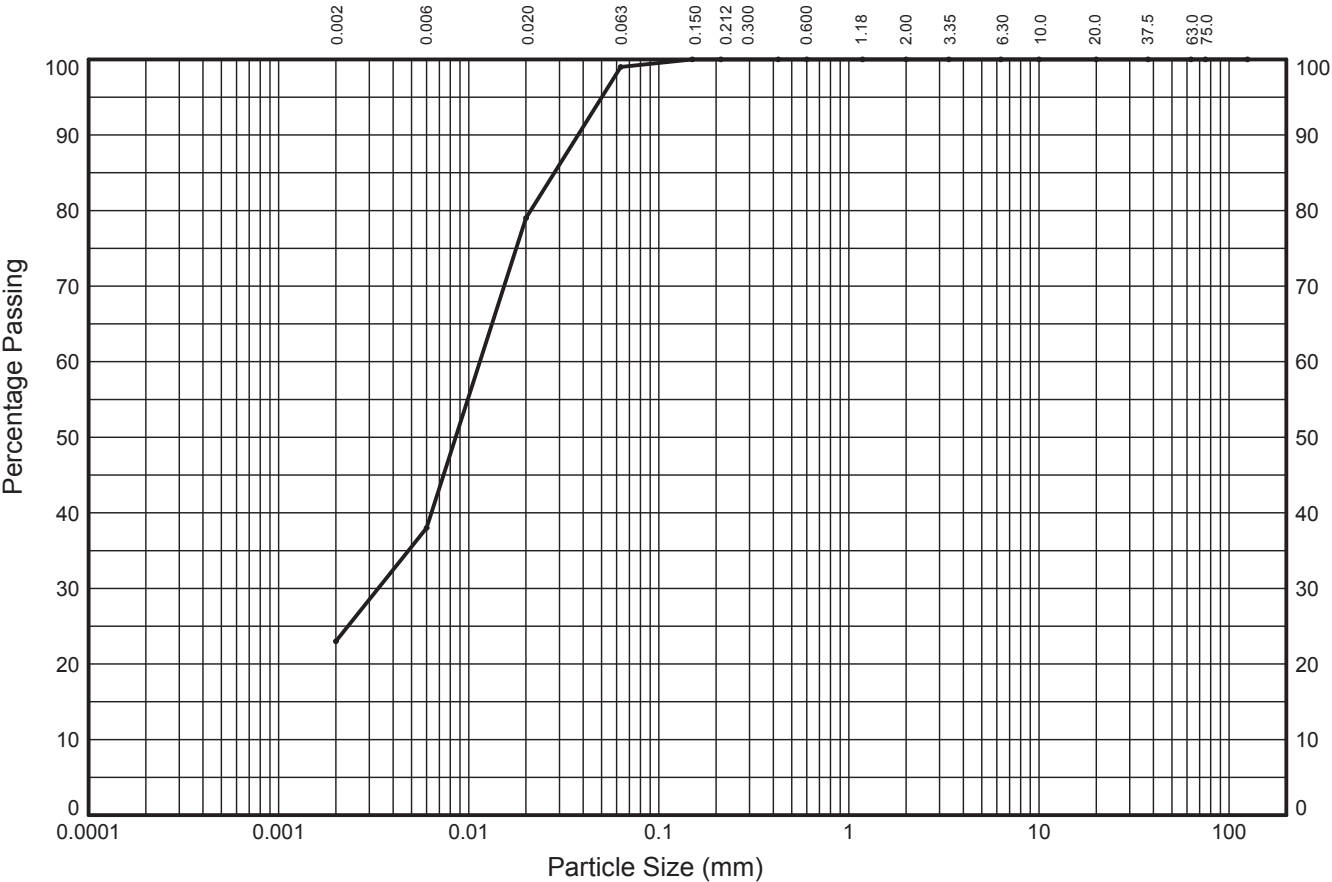
562943



PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2, 9.4 of BS1377:Part 2:1990

Trial Pit: **TP107** Sample Ref: **4** Sample Type: **B** Depth (m): **0.90**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	16%	40%	20%	1%	0%	0%	0%	0%	0%	
	SILT			SAND			GRAVEL			
23%	76%			1%			0%			0%

Test Sieve (mm)	Percent Passing (%)	Particle Diameter (mm)	Percent Passing (%)	Coefficients	
125.0	100	0.02	79	D ₁₀ (mm)	NA
75.0	100			D ₁₅ (mm)	NA
63.0	100			D ₃₀ (mm)	0.003
37.5	100	0.006	38	D ₅₀ (mm)	0.009
20.0	100			D ₆₀ (mm)	0.011
10.0	100			D ₈₅ (mm)	0.028
6.30	100	0.002	23	D ₉₀ (mm)	0.038
3.35	100			C _U	NA
2.00	100			C _C	NA
1.18	100	Sedimentation sample was not pre-treated			
0.600	100	Soil Description: Brown mottled orange and grey slightly sandy clayey SILT			
0.425	100				
0.212	100				
0.150	100				
0.063	99				

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2

	Compiled By		Date
	SHARON CAIRNS		23/06/19
	Contract	Contract Ref:	
HE Northern Arc, Burgess Hill - Freeks Farm GI		562943	
			