

Project Name: Northenden College

Project No.
13969

Co-ords: 382156.00 - 390293.00
Level: 33.06

Date
20/05/2020

Location: Wythenshawe

Dimensions (m): 1.60

Scale
1:30

Client: Cushman and Wakefield

Depth
1.20

0.60

1.60

Logged
E Fearn

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.70 0.70	B ES		0.20	32.86		MADE GROUND: Black brown slightly clayey medium sand (Topsoil) with frequent rootlets.
							MADE GROUND: Dark brown slightly clayey gravelly medium sand with occasional cobbles. Gravel is fine to coarse angular to sub-rounded of mudstone, brick and timber. Cobbles are angular of brick.
				1.20	31.86		End of Pit at 1.20m

Trial Pit Photographs



Trial Pit 126



Tral Pit 126 Spoil

Remarks: 1. Terminated due to collapse in Made Ground strata.

Stability: Unstable.

Project Name: Northenden College	Project No. 13969	Co-ords: 382148.00 - 390325.00 Level: 33.60	Date 20/05/2020
Location: Wythenshawe		Dimensions (m): 1.70 Depth 0.90	Scale 1:30
Client: Cushman and Wakefield			Logged E Fearn

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES		0.20	33.40		MADE GROUND: Black brown slightly clayey medium sand (Topsoil) with frequent rootlets.	
	0.80	ES		0.90	32.70		MADE GROUND: Dark brown slightly clayey gravelly medium sand. Gravel is fine to coarse angular to sub-angular of mudstone and brick.	
							End of Pit at 0.90m	

Trial Pit Photographs



Trial Pit 127



Trial Pit 127 Spoil

Remarks: 1. Terminated due to concrete obstruction.

Stability: Unstable.

Project Name: Northenden College	Project No. 13969	Co-ords: 382104.00 - 390324.00 Level: 33.15	Date 20/05/2020
Location: Wythenshawe		Dimensions (m): 1.80 Depth 1.00	Scale 1:30
Client: Cushman and Wakefield			Logged E Fearn

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.30	ES		0.40	32.75		MADE GROUND: Black brown slightly gravelly medium sand (Topsoil) with frequent rootlets. Gravel is fine to coarse angular to sub-rounded of mudstone and brick.	
	0.80	ES		1.00	32.15		MADE GROUND: Dark brown gravelly medium sand. Gravel is fine to coarse angular to sub-angular of mudstone, brick and plastic.	
							End of Pit at 1.00m	

Trial Pit Photographs



Trial Pit 128



Trial Pit 128 Spoil

Remarks: 1. Terminated due to land drain.

Stability: Unstable.

Project Name: Northenden College	Project No. 13969	Co-ords: 382101.00 - 390285.00 Level: 33.34	Date 20/05/2020
Location: Wythenshawe		Dimensions (m): 1.40 Depth 2.10	Scale 1:30
Client: Cushman and Wakefield			Logged E Fearn

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	ES		0.40	32.94		MADE GROUND: Black brown slightly gravelly medium sand (Topsoil) with frequent rootlets. Gravel is fine to coarse angular to sub-rounded of mudstone and brick.	
	1.20	ES		2.10	31.24		MADE GROUND: Dark brown clayey gravelly medium sand. Gravel is fine to coarse angular to sub-rounded of mudstone and brick.	1
							End of Pit at 2.10m	2
								3
								4

Trial Pit Photographs



Trial Pit 129



Trial Pit 129 Spoil

Remarks: 1. Complete.

Stability: Unstable.

Project Name: Northenden College	Project No. 13969	Co-ords: 382156.00 - 390273.00 Level: 32.84	Date 20/05/2020
Location: Wythenshawe	Dimensions (m): 1.80 Depth 1.80		Scale 1:30
Client: Cushman and Wakefield			Logged E Fearn

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.40	ES		0.20	32.64		MADE GROUND: Black brown slightly gravelly medium sand (Topsoil) with frequent rootlets. Gravel is fine to coarse angular to sub-rounded of mudstone and brick.	
							MADE GROUND: Dark brown gravelly medium sand with occasional cobbles. Gravel is fine to coarse angular to sub-angular of mudstone, brick and plastic. Cobbles are angular of brick.	
	1.20	ES		1.00	31.84		Light yellow brown gravelly medium SAND. Gravel is fine to coarse sub-angular to sub-rounded of sandstone and mudstone.	1
				1.80	31.04		End of Pit at 1.80m	2
								3
								4

Trial Pit Photographs



Trial Pit 130



Trial Pit 130 Spoil

Remarks: 1. Complete.

Stability: Stable.

Project Name: Northenden College	Project No. 13969	Co-ords: 382125.00 - 390265.00 Level: 32.77	Date 20/05/2020
Location: Wythenshawe	Dimensions (m): 1.70 Depth 2.20		Scale 1:30
Client: Cushman and Wakefield			Logged E Fearn

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	1.00	B		0.40	32.37		MADE GROUND: Black brown slightly gravelly medium sand (Topsoil) with frequent rootlets. Gravel is fine to coarse angular to sub-rounded of mudstone and brick.	1
	1.50	ES		1.40	31.37		MADE GROUND: Dark brown gravelly medium sand. Gravel is fine to coarse angular to sub-rounded of mudstone, sandstone, brick and plastic.	2
				2.20	30.57		Light yellow brown gravelly medium SAND. Gravel is fine to coarse angular to rounded of mudstone and sandstone.	3
							End of Pit at 2.20m	4

Trial Pit Photographs



Trial Pit 131



Trial Pit 131 Spoil

Remarks: 1. Complete.

Stability: Stable.

Project Name: Northenden College	Project No. 13969	Co-ords: 382095.00 - 390262.00 Level: 32.67	Date 20/05/2020
Location: Wythenshawe	Dimensions (m): 1.60 Depth 2.20		Scale 1:30
Client: Cushman and Wakefield			Logged E Fearn

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20			0.20	32.47		MADE GROUND: Black brown slightly gravelly medium sand (Topsoil) with frequent rootlets. Gravel is fine to coarse angular to sub-rounded of mudstone and brick.	
	0.50	ES		0.80	31.87		MADE GROUND: Dark brown grey slightly gravelly medium sand. Gravel is fine to coarse angular to sub-rounded of mudstone.	1
	1.60	ES		2.20	30.47		Light yellow brown slightly gravelly medium SAND. Gravel is fine to coarse angular to sub-rounded of mudstone and sandstone.	2
							End of Pit at 2.20m	3
								4

Trial Pit Photographs



Trial Pit 132



Trial Pit 132 Spoil

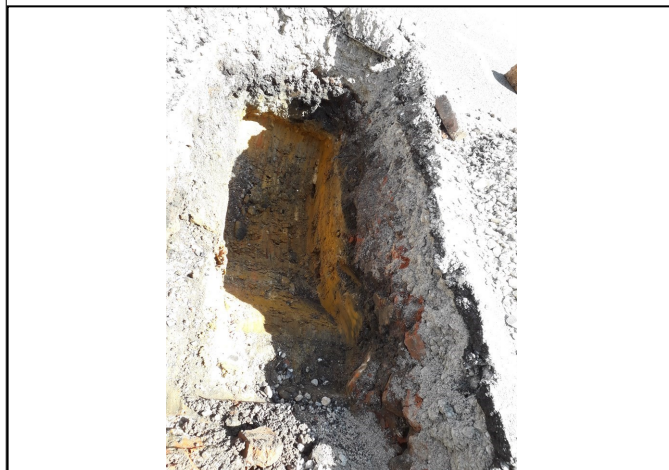
Remarks: 1. Complete.

Stability: Stable.

Project Name: Northenden College	Project No. 13969	Co-ords: 382071.00 - 390288.00 Level: 33.20	Date 20/05/2020
Location: Wythenshawe		Dimensions (m): 1.00 1.90	Scale 1:30
Client: Cushman and Wakefield		Depth 1.80	Logged E Fearn

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10			0.10	33.10		MADE GROUND: Asphalt.	
	0.20			0.20	33.00		MADE GROUND: Grey sandy gravel (MOT). Gravel is fine to coarse angular to sub-rounded of limestone.	
	0.50	ES		0.60	32.60		MADE GROUND: Black gravelly medium sand with frequent cobbles. Gravel is fine to coarse angular to sub-rounded of mudstone, asphalt and brick. Cobbles are angular of brick.	
	1.00	ES		0.70	32.50		MADE GROUND: Concrete.	
							Light yellow brown clayey medium SAND.	
				1.80	31.40		End of Pit at 1.80m	

Trial Pit Photographs



Trial Pit 133



Trial Pit 133 Spoil

Remarks: 1. Complete.

Stability: Stable.

Project Name: Northenden College	Project No. 13969	Co-ords: 382052.00 - 390261.00 Level: 33.30	Date 20/05/2020
Location: Wythenshawe		Dimensions (m): 1.80 Depth 1.60	Scale 1:30
Client: Cushman and Wakefield			Logged E Fearn

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES		0.20	33.10		MADE GROUND: Black brown slightly gravelly medium sand (Topsoil) with frequent rootlets. Gravel is fine to coarse angular to sub-rounded of mudstone and brick.	
	1.00 1.00	B ES		1.60	31.70		MADE GROUND: Dark brown slightly gravelly medium sand with occasional cobbles. Gravel is fine to coarse angular to sub-rounded of mudstone, brick, concrete and timber. Cobbles are angular of brick.	1
							End of Pit at 1.60m	2
								3
								4

Trial Pit Photographs



Trial Pit 134

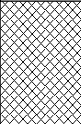
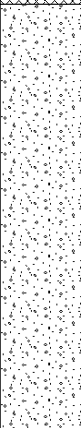


Trial Pit 134 Spoil

Remarks: 1. Terminated due to collapse in Made Ground strata.

Stability: Unstable.

Project Name: Northenden College	Project No. 13969	Co-ords: 381980.00 - 390434.00 Level: 32.39	Date 21/05/2020
Location: Wythenshawe		Dimensions (m): 1.80 Depth 2.20	Scale 1:30
Client: Cushman and Wakefield			Logged E Fearn

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.40	ES		0.50	31.89		MADE GROUND: Black brown slightly gravelly medium sand (Topsoil) with frequent rootlets. Gravel is fine to coarse angular to sub-rounded of mudstone, plastic and brick.	
	1.40	ES					Light yellow brown gravelly medium SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and mudstone.	1
				2.20	30.19		End of Pit at 2.20m	2
								3
								4

Trial Pit Photographs



Trial Pit 135

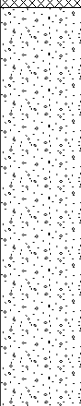


Trial Pit 135 Spoil

Remarks: 1. Complete.

Stability: Stable.

Project Name: Northenden College	Project No. 13969	Co-ords: 382024.00 - 390429.00 Level: 32.19	Date 21/05/2020
Location: Wythenshawe	Client: Cushman and Wakefield	Dimensions (m): 2.10 Depth 2.20	Scale 1:30 Logged E Fearn

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.50	ES		0.30 0.60	31.89 31.59	 	MADE GROUND: Light grey sandy gravel with occasional rootlets. Gravel is fine to coarse angular to sub-rounded of mudstone, limestone and brick. MADE GROUND: Black brown slightly clayey gravelly medium sand. Gravel is fine to coarse angular to sub-rounded of mudstone and brick.	
	1.80	ES		2.20	29.99		Light yellow brown slightly clayey gravelly medium SAND. Gravel is fine to coarse angular to sub-rounded of mudstone and sandstone.	1 2 3 4
							End of Pit at 2.20m	

Trial Pit Photographs



Trial Pit 136

Trial Pit 136 Spoil

Remarks: 1. Complete.

Stability: Unstable.

Project Name: Northenden College	Project No. 13969	Co-ords: 382044.00 - 390431.00 Level: 32.19	Date 21/05/2020
Location: Wythenshawe	Client: Cushman and Wakefield	Dimensions (m): 1.80 Depth 1.80	Scale 1:30 Logged E Fearn

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.20			31.99			MADE GROUND: Light grey sandy gravel. Gravel is fine to coarse angular to sub-rounded of limestone, mudstone and brick. Light yellow brown slightly clayey gravelly medium SAND. Gravel is fine to coarse angular to sub-rounded of mudstone and sandstone.
	1.50 1.50	B ES		1.80	30.39		End of Pit at 1.80m

Trial Pit Photographs



Trial Pit 137



Trial Pit 137 Spoil

Remarks: 1. Complete.

Stability: Unstable.

Borehole Log

Borehole No.

WS101

Sheet 1 of 1

Project Name: Northenden College

Project No.
13969

Co-ords: 382193E - 390121N

Hole Type
WS

Location: Wythenshawe

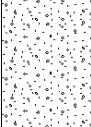
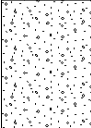
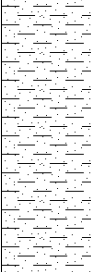
Level: 32.90 m AOD

Scale
1:50

Client: Cushman and Wakefield

Dates: 12/05/2020

Logged By
E Fearn

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10	ES		0.20	32.90		Black brown slightly gravelly medium SAND (TOPSOIL) with frequent rootlets. Gravel is fine to coarse angular to sub-rounded of mudstone.	
		1.00	SPT	N=18 (5,7/5,5,4,4)				Medium dense light yellow brown slightly gravelly medium SAND. Gravel is fine to coarse angular to rounded of mudstone and sandstone.	1
		1.20	ES						
					1.60	32.70		Medium dense light grey brown medium dense very gravelly medium SAND. Gravel is fine to coarse angular to rounded of mudstone, sandstone and quartz.	2
		2.00	SPT	N=14 (3,3/4,3,4,3)					
					2.50	31.30		Stiff medium strength light brown mottled grey slightly gravelly sandy CLAY. Gravel is fine to coarse angular to rounded of mudstone.	3
		3.00	D						
		3.00	SPT	N=11 (1,1/2,3,3,3)					
		3.50 - 4.00	U						
		4.00	D						
		4.00	SPT	N=12 (3,3/3,3,3,3)	4.45	30.40		End of Borehole at 4.45m	4
									5
									6
									7
									8
									9
									10

Remarks

1. Water strike encountered at 2.50m bgl. 2. Terminated due to collapse at water strike.

Borehole Log

Borehole No.

WS102

Sheet 1 of 1

Project Name: Northenden College

Project No.
13969

Co-ords: 382250E - 390125N

Hole Type
WS

Location: Wythenshawe

Level: 32.78 m AOD

Scale
1:50

Client: Cushman and Wakefield

Dates: 12/05/2020

Logged By
E Fearn

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.30			0.30	32.78		Black brown slightly gravelly medium SAND (TOPSOIL) with frequent rootlets. Gravel is fine to coarse angular to sub-rounded of mudstone.	
		1.00	SPT	N=20 (4,4/5,6,4,5)				Medium dense light yellow brown slightly gravelly medium SAND. Gravel is fine to coarse angular to rounded of mudstone and sandstone.	1
		1.20	ES						
		1.60			1.60	32.48			
		2.00	SPT	N=8 (2,2/2,2,2,2)				Loose light grey brown very gravelly medium SAND. Gravel is fine to coarse angular to rounded of mudstone, sandstone and quartz.	2
		2.60			2.60	31.18			
		3.00	SPT	N=12 (2,3/3,3,3,3)				Stiff medium strength light brown mottled grey slightly gravelly sandy CLAY. Gravel is fine to coarse angular to sub-rounded of mudstone.	3
		3.50 - 4.00	U						
		4.00	D						
		4.00	SPT	N=11 (2,2/2,3,3,3)					4
		5.00	D						
		5.00	SPT	N=12 (2,2/3,3,3,3)					5
		5.45			5.45	30.18		End of Borehole at 5.45m	6
									7
									8
									9
									10

Remarks

1. Monitoring well installed. 2. Complete.

Borehole Log

Borehole No.

WS103

Sheet 1 of 1

Project Name: Northenden College

Project No.
13969

Co-ords: 382244E - 390187N

Hole Type
WS

Location: Wythenshawe

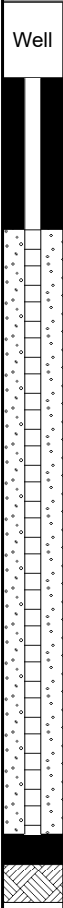
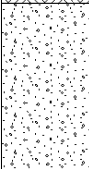
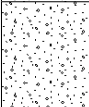
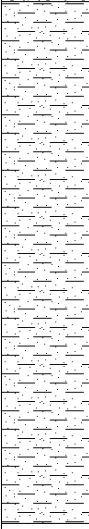
Level: 32.32 m AOD

Scale
1:50

Client: Cushman and Wakefield

Dates: 12/05/2020

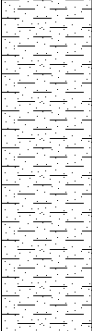
Logged By
E Fearn

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
		0.10	ES	N=20 (3,4/4,5,5,6)	0.20	32.32		Black brown slightly gravelly medium SAND (TOPSOIL) with frequent rootlets. Gravel is fine to coarse angular to sub-rounded of mudstone.	1	
		0.90	ES		N=9 (2,1/2,3,2,2)	1.30	32.12			Light yellow brown slightly gravelly medium SAND. Gravel is fine to coarse angular to rounded of mudstone and sandstone.
		1.00	SPT			2.00	31.02			Medium dense light grey brown very gravelly medium SAND. Gravel is fine to coarse angular to rounded of mudstone, sandstone and quartz.
		2.00	SPT	N=9 (2,1/2,3,2,2)	2.00	31.02		Stiff medium strength light brown mottled grey slightly gravelly sandy CLAY. Gravel is fine to coarse angular to sub-angular of mudstone.	2	
		3.00	D SPT	N=14 (2,2/3,3,4,4)	5.45	30.32			3	
		3.00							4	
		4.00	D SPT	N=13 (2,3/3,3,4,3)	5					
		4.00			6					
		5.00	D SPT	N=17 (2,4/4,5,4,4)	5.45	30.32	End of Borehole at 5.45m	7		
		5.00						8		
								9		
								10		

Remarks

1. Water strike encountered at 2.30m bgl. 2. Monitoring well installed. 3. Complete.

				Borehole Log				Borehole No. WS104 Sheet 1 of 1	
Project Name: Northenden College				Project No. 13969		Co-ords: 382210E - 390161N		Hole Type WS	
Location: Wythenshawe				Level: 32.61 m AOD		Scale 1:50			
Client: Cushman and Wakefield				Dates: 12/05/2020		Logged By E Fearn			

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.30			0.30	32.61		Black brown slightly gravelly medium SAND (TOPSOIL) with frequent rootlets. Gravel is fine to coarse angular to sub-rounded of mudstone.	
		0.80	ES						
		1.00	SPT	N=20 (4,5/5,6,5,4)					1
		1.60	ES						
		2.00	SPT	N=11 (2,2/3,2,3,3)					2
		3.00							
		3.00	D SPT	N=15 (3,2/3,4,4,4)	3.20	32.31		Stiff medium strength light brown mottled grey slightly gravelly sandy CLAY. Gravel is fine to coarse angular to sub-angular of mudstone. Becoming very stiff high strength from circa. 5.00m bgl.	3
		4.00							
		4.00	D SPT	N=15 (2,3/3,4,4,4)					4
		5.00							
		5.00	D SPT	N=19 (3,4/4,4,5,6)	5.45	29.41			5
		End of Borehole at 5.45m							6
									7
									8
									9
									10

Remarks
 1. Complete.



Project Name: Northenden College

Project No.
13969

Co-ords: 382173E - 390159N

Hole Type
WS

Location: Wythenshawe

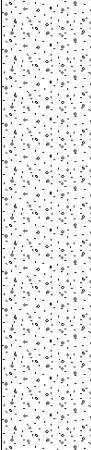
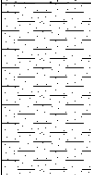
Level: 32.82 m AOD

Scale
1:50

Client: Cushman and Wakefield

Dates: 12/05/2020

Logged By
E Fearn

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10	ES		0.30	32.82		Black brown slightly gravelly medium SAND (TOPSOIL) with frequent rootlets. Gravel is fine to coarse angular to sub-rounded of mudstone.	
		1.00	SPT	N=34 (3,7/8,9,9,8)				Dense light yellow brown slightly gravelly medium SAND. Gravel is fine to coarse angular to rounded of mudstone and sandstone. Becoming medium dense from circa. 2.00m bgl.	1
		1.40	ES						
		2.00	SPT	N=22 (3,3/4,5,6,7)					2
		3.00	SPT	N=12 (3,3/3,3,3,3)	3.30	32.52		Stiff medium strength light brown mottled grey slightly gravelly sandy CLAY. Gravel is fine to coarse angular to sub-angular of mudstone. Becoming very stiff high strength from circa. 4.00m bgl.	3
		4.00	D						4
		4.00	SPT	N=18 (4,5/4,5,5,4)	4.45	29.52			4
								End of Borehole at 4.45m	5
									6
									7
									8
									9
									10

Remarks

1. Water strike encountered at 2.00m bgl. 2. Monitoring well installed. 3. Terminated due to collapse at water strike. 4. Saturated strata from 2.00 - 3.30m bgl.

Borehole Log

Borehole No.

WS106

Sheet 1 of 1

Project Name: Northenden College

Project No.
13969

Co-ords: 382168E - 390197N

Hole Type
WS

Location: Wythenshawe

Level: 32.44 m AOD

Scale
1:50

Client: Cushman and Wakefield

Dates: 12/05/2020

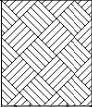
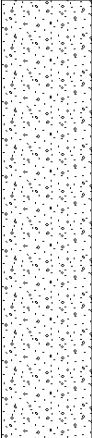
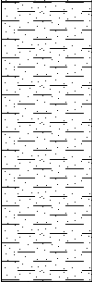
Logged By
E Fearn

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.40				32.44		Black brown slightly gravelly medium SAND (TOPSOIL) with frequent rootlets. Gravel is fine to coarse angular to sub-rounded of mudstone.	
		1.00	SPT	N=18 (3,4/4,5,5,4)					1
		1.20	ES					Medium dense light yellow brown slightly gravelly medium SAND. Gravel is fine to coarse angular to rounded of sandstone and mudstone.	
		2.00	SPT	N=15 (3,4/3,4,4,4)					2
		2.50				32.04			
		3.00	SPT	N=19 (2,3/3,4,6,6)				Very stiff high strength light brown grey slightly gravelly sandy CLAY. Gravel is fine to coarse angular to sub-angular of mudstone.	3
		3.50 - 4.00	U						
		4.00	D						4
		4.00	SPT	N=19 (3,3/4,5,5,5)					
		5.00	D						5
		5.00	SPT	N=22 (3,4/4,4,7,7)					
		5.45				29.94		End of Borehole at 5.45m	6
									7
									8
									9
									10

Remarks

1. Monitoring well installed. 2. Complete.

				Borehole Log				Borehole No. WS107 Sheet 1 of 1	
Project Name: Northenden College				Project No. 13969		Co-ords: 382226E - 390220N		Hole Type WS	
Location: Wythenshawe				Level: 32.59 m AOD		Scale 1:50			
Client: Cushman and Wakefield				Dates: 13/05/2020		Logged By E Fearn			
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
	 2.00	0.10			0.10	32.59	 MADE GROUND: Asphalt.  MADE GROUND: Grey slightly sandy gravel. Gravel is fine to coarse angular to sub-rounded of mudstone, sandstone and brick.  MADE GROUND: Black very clayey gravel. Gravel is fine to coarse angular to rounded of asphalt and brick.  Stiff medium strength light brown mottled grey slightly sandy CLAY with occasional gravel. Gravel is fine to coarse angular to sub-angular of mudstone.	1	
		0.55	ES		0.50	32.49			
		1.00	D	N=13 (3,3/3,4,3,3)	0.60	32.09			
		1.00	SPT						
		1.20	ES						
		2.00	D	N=2 (1,1/1,0,0,1)	1.90	31.99			
		2.00	SPT						
		3.00	SPT	N=7 (1,1/1,2,2,2)					
		4.00	D	N=23 (4,4/5,6,6,6)	3.70	30.69			
		4.00	SPT		4.45	28.89			
End of Borehole at 4.45m								5	
								6	
								7	
								8	
								9	
								10	
Remarks 1. Water strike encountered at 2.00m bgl. 2. Terminated due to collapse at water strike.									

				Borehole Log				Borehole No. WS108 Sheet 1 of 1			
Project Name: Northenden College				Project No. 13969		Co-ords: 382238E - 390267N		Hole Type WS			
Location: Wythenshawe				Level: 32.76 m AOD		Scale 1:50					
Client: Cushman and Wakefield				Dates: 13/05/2020		Logged By E Fearn					
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
		Depth (m)	Type	Results							
	 2.00	0.40	ES	N=18 (2,3/5,5,4,4)	0.70	32.76		Black brown slightly gravelly medium SAND (TOPSOIL) with frequent rootlets. Gravel is fine to coarse angular to sub-rounded of mudstone.	1		
		1.00	SPT								
		1.40	ES								
				2.00	SPT	N=19 (6,6/7,5,4,3)	3.60	32.06		Medium dense light yellow brown slightly gravelly medium SAND. Gravel is fine to coarse angular to rounded of mudstone and sandstone.	2
				3.00	D SPT	N=17 (2,2/3,4,5,5)					
				3.00							
				3.50 - 4.00	U						
				4.00	D SPT	N=21 (3,3/4,5,6,6)					
				5.00	D SPT	N=21 (4,4/4,5,6,6)	5.45	29.16		Very stiff high strength light brown slightly gravelly sandy CLAY. Gravel is fine to coarse angular to rounded of mudstone.	4
				4.00							
End of Borehole at 5.45m									5		
									6		
									7		
									8		
									9		
									10		
Remarks 1. Water strike encountered at 2.00m bgl. 2. Complete. 3. Saturated strata from 2.00-3.60m bgl.											



Borehole Log

Borehole No.

WS110

Sheet 1 of 1

Project Name: Northenden College

Project No.
13969

Co-ords: 382126E - 390234N

Hole Type
WS

Location: Wythenshawe

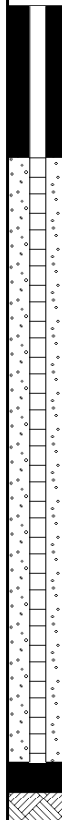
Level: 32.31 m AOD

Scale
1:50

Client: Cushman and Wakefield

Dates: 13/05/2020

Logged By
E Fearn

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.40			0.40	32.31		Black brown slightly gravelly medium SAND (TOPSOIL) with frequent rootlets. Gravel is fine to coarse angular to rounded of mudstone.	
		0.80	ES						
		1.00	SPT	N=13 (2,4/3,3,4,3)				Medium dense light brown slightly gravelly medium SAND. Gravel is fine to coarse angular to sub-rounded of sandstone.	1
		1.60			1.60	31.91			
		1.80	ES					Medium dense light grey brown slightly gravelly medium SAND. Gravel is fine to coarse angular to sub-angular of mudstone and sandstone.	2
		2.00	SPT	N=15 (2,3/3,4,4,4)					
		2.40			2.40	30.71			
		3.00	D					Stiff medium strength light brown slightly sandy CLAY with occasional gravel. Gravel is fine to coarse angular to sub-rounded of mudstone.	3
		3.00	SPT	N=16 (2,2/3,4,4,5)					
		4.00	D						4
		4.00	SPT	N=15 (3,2/3,4,4,4)					
		5.00	D						5
		5.00	SPT	N=12 (2,2/3,3,3,3)					
		5.45			5.45	29.91		End of Borehole at 5.45m	6
									7
									8
									9
									10

Remarks

1. Water strike encountered at 1.50m bgl. 2. Monitoring well installed. 3. Complete. 4. Saturated strata from 1.50-2.40m bgl.

Borehole Log

Borehole No.

WS111

Sheet 1 of 1

Project Name: Northenden College

Project No.
13969

Co-ords: 382195E - 390253N

Hole Type
WS

Location: Wythenshawe

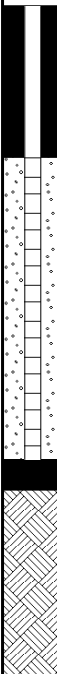
Level: 32.53 m AOD

Scale
1:50

Client: Cushman and Wakefield

Dates: 13/05/2020

Logged By
E Fearn

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20	ES		0.30	32.53		Black brown slightly gravelly medium SAND (TOPSOIL) with frequent rootlets. Gravel is fine to coarse angular to sub-rounded of mudstone.	1
		0.80	ES						
		1.00	SPT	N=18 (3,4/5,4,5,4)					
		2.00	SPT	N=14 (4,5/4,3,4,3)	3.80	32.23		Very stiff high strength light brown slightly sandy gravelly CLAY. Gravel is fine to coarse angular to sub-rounded of mudstone.	4
		3.00	D						
		3.00	SPT	N=13 (2,1/3,2,4,4)					
		4.00	D		4.45	28.73		End of Borehole at 4.45m	5
		4.00	SPT	N=22 (4,5/5,6,6,5)					
									6
									7
									8
									9
									10

Remarks

1. Water strike encountered at 2.20m bgl. 2. Monitoring well installed. 3. Terminated due to collapse at water strike. 4. Saturated strata from 2.20-3.80m bgl.

				Borehole Log				Borehole No. WS112 Sheet 1 of 1	
Project Name: Northenden College				Project No. 13969		Co-ords: 382206E - 390287N		Hole Type WS	
Location: Wythenshawe				Level: 32.58 m AOD		Scale 1:50			
Client: Cushman and Wakefield				Dates: 13/05/2020		Logged By E Fearn			
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10			0.10	32.58		MADE GROUND: Asphalt.	1 2 3 4 5 6 7 8 9 10
		0.40	ES		0.80	32.48		MADE GROUND: Black slightly gravelly medium sand. Gravel is fine to coarse angular to sub-rounded of brick and asphalt.	
		1.00	SPT	N=24 (5,4/6,6,7,5)				Medium dense light brown slightly gravelly medium SAND. Gravel is fine to coarse angular to sub-angular of sandstone.	
		1.40	ES						
		2.00	SPT	N=19 (4,5/5,4,5,5)					
		2.80			2.80	31.78		Loose red brown slightly clayey medium SAND.	
		3.00	SPT	N=6 (2,2/2,2,1,1)					
		4.00			4.20	29.78		Very stiff high strength light brown slightly sandy CLAY.	
		4.00	D SPT	N=23 (4,4/6,5,6,6)	4.45	28.38		End of Borehole at 4.45m	
Remarks 1. Terminated due to collapse in sand strata.									

Project Name: Northenden College

Project No.
13969

Co-ords: 382166E - 390300N

Hole Type
WS

Location: Wythenshawe

Level: 32.77 m AOD

Scale
1:50

Client: Cushman and Wakefield

Dates: 14/05/2020

Logged By
E Fearn

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20			0.20	32.77		MADE GROUND: Black brown slightly gravelly medium sand (Topsoil) with frequent rootlets. Gravel is fine to coarse angular to sub-angular of mudstone.	
		0.60	ES					MADE GROUND: Light brown very gravelly sandy clay. Gravel is fine to coarse angular to sub-rounded of mudstone and brick.	
		1.00	SPT	N=17 (2,2/3,4,5,5)	1.10	32.57			1
		1.60	ES						
		2.00	SPT	N=22 (6,6/5,6,6,5)					2
		3.00	SPT	N=8 (1,1/2,2,2,2)					3
		3.50 - 4.00	U		3.40	31.67		Stiff medium strength light brown sandy CLAY.	4
		4.00	SPT	N=17 (3,3/3,4,5,5)					
		4.45			4.45	29.37		End of Borehole at 4.45m	5
									6
									7
									8
									9
									10

Remarks

1. Water strike encountered at 2.00m bgl. 2. Monitoring well installed. 3. Terminated due to collapse at water strike. 4. Saturated strata from 2.00-3.40m bgl.

Borehole Log

Borehole No.

WS114

Sheet 1 of 1

Project Name: Northenden College

Project No.
13969

Co-ords: 382160E - 390365N

Hole Type
WS

Location: Wythenshawe

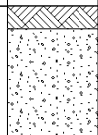
Level: 32.20 m AOD

Scale
1:50

Client: Cushman and Wakefield

Dates: 14/05/2020

Logged By
E Fearn

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10	ES		0.15	32.20		Black brown slightly gravelly medium SAND (TOPSOIL) with frequent roots. Gravel is fine to coarse angular to sub-angular of mudstone. Light yellow brown very gravelly medium dense SAND. Gravel is fine to coarse angular to sub-rounded of mudstone and sandstone.	1
		1.00	SPT	N=19 (2,3/5,5,5,4)					
		1.20	ES						
	 2.00	2.00	SPT	N=8 (3,2/2,2,2,2)	1.90	32.05		Light brown gravelly medium SAND. Gravel is loose fine to coarse angular to sub-angular of sandstone.	2
		2.50			2.50	30.30		Stiff medium strength light brown sandy CLAY. Becoming very stiff high strength from circa. 4.00m bgl.	3
		3.00	D						
		3.00	SPT	N=12 (2,2/2,2,4,4)					
		4.00	D						
		4.00	SPT	N=21 (4,3/5,5,5,6)	4.45	29.70		End of Borehole at 4.45m	4
									5
									6
									7
									8
									9
									10

Remarks

1. Water strike encountered at 2.00m bgl. 2. Terminated due to collapse at water strike. 3. Saturated strata from 2.00-2.50m bgl.

Borehole Log

Borehole No.

WS115

Sheet 1 of 1

Project Name: Northenden College

Project No.
13969

Co-ords: 382104E - 390310N

Hole Type
WS

Location: Wythenshawe

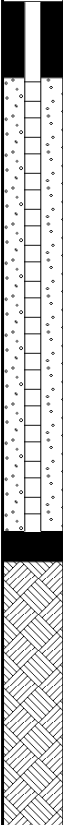
Level: 33.19 m AOD

Scale
1:50

Client: Cushman and Wakefield

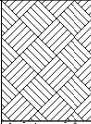
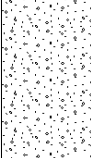
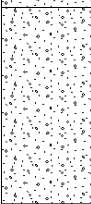
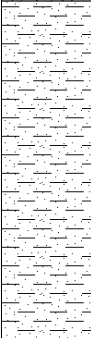
Dates: 14/05/2020

Logged By
E Fearn

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
	 2.50	0.40	ES		0.30	33.19		MADE GROUND: Black brown slightly gravelly medium sand (Topsoil) with frequent rootlets. Gravel is fine to coarse angular to rounded of mudstone.	1	
		1.00	SPT	N=9 (1,1/1,2,3,3)				MADE GROUND: Loose black slightly clayey gravelly medium sand. Gravel is fine to coarse angular to sub-rounded of mudstone and brick.		
		1.60	ES		1.40	32.89		Medium dense light yellow brown slightly gravelly medium SAND. Gravel is fine to coarse angular to sub-rounded of mudstone and sandstone.	2	
		2.00	SPT	N=28 (4,5/7,8,7,6)						
		3.00 3.00	D SPT	N=2 (1,1/0,0,1,1)	3.20	31.79		Very soft extremely low strength light brown sandy CLAY. Becoming stiff medium strength from circa 4.00m bgl.	3	
		4.00 4.00	D SPT	N=16 (2,3/3,4,4,5)					4	
		5.00 5.00	D SPT	N=15 (2,3/3,3,4,5)	5.45	29.99			5	
									End of Borehole at 5.45m	6
										7
										8
								9		
								10		

Remarks

1. Water strike encountered at 2.50m bgl. 2. Monitoring well installed. 3. Complete. 4. Saturated strata from 2.50-3.20m bgl.

				Borehole Log				Borehole No. WS116 Sheet 1 of 1	
Project Name: Northenden College				Project No. 13969		Co-ords: 382109E - 390264N		Hole Type WS	
Location: Wythenshawe				Level: 32.61 m AOD		Scale 1:50			
Client: Cushman and Wakefield				Dates: 14/05/2020		Logged By E Fearn			
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
	 2.50	0.30	ES		0.80	32.61		Black brown slightly gravelly medium SAND (TOPSOIL) with frequent rootlets. Gravel is fine to coarse angular to rounded of mudstone.	1
		1.00	SPT	N=8 (1,2/2,2,2,2)					
		1.30	ES		1.90	31.81			Medium dense light brown slightly gravelly medium SAND. Gravel is fine to coarse angular to sub-rounded of mudstone.
		2.00	SPT	N=13 (4,3/4,3,3,3)					Firm low strength light brown sandy CLAY. Becoming very stiff high strength from circa. 4.00m bgl.
		3.00	D		3.20	30.71			
		3.00	SPT	N=6 (1,1/1,1,2,2)					
		4.00	D		5.45	29.41			4
		4.00	SPT	N=20 (4,4/4,5,6,5)					
		5.00	D						5
		5.00	SPT	N=15 (3,3/4,3,4,4)					
End of Borehole at 5.45m								6	
								7	
								8	
								9	
								10	
Remarks 1. Water strike encountered at 2.50m bgl. 2. Complete. 3. Saturated strata from 1.90-2.50m bgl.									

Project Name: Northenden College

Project No.
13969

Co-ords: 382075E - 390231N

Hole Type
WS

Location: Wythenshawe

Level: 32.66 m AOD

Scale
1:50

Client: Cushman and Wakefield

Dates: 14/05/2020

Logged By
E Fearn

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.05			0.05	32.66		MADE GROUND: Concrete.	
		0.15			0.15	32.61		MADE GROUND: Red gravel. Gravel is fine to coarse angular of brick.	
								MADE GROUND: Black brown slightly gravelly medium sand with frequent rootlets. Gravel is fine to coarse angular to sub-rounded of mudstone.	
		0.80	ES						
		1.00	SPT	N=10 (2,3/3,2,3,2)	0.90	32.51		Medium dense light yellow brown slightly gravelly medium SAND. Gravel is fine to coarse angular to sub-rounded of mudstone and sandstone.	1
		1.20	ES						
		2.00	SPT	N=30 (4,6/8,8,7,7)	1.80	31.76		Medium dense brown very gravelly medium SAND. Gravel is fine to coarse angular to sub-rounded of sandstone.	2
		3.00	D						
		3.00	SPT	N=11 (1,1/2,2,3,4)	3.20	30.86		Stiff medium strength light brown sandy CLAY. Becoming very stiff high strength from circa. 5.00m bgl.	3
		4.00	D						
		4.00	SPT	N=15 (3,2/3,4,4,4)					4
		5.00	D						
		5.00	SPT	N=28 (4,3/6,7,7,8)					5
					5.45	29.46		End of Borehole at 5.45m	6
									7
									8
									9
									10

Remarks

1. Water strike encountered at 3.00m bgl. 2. Monitoring well installed. 3. Complete. 4. Saturated strata 3.00-3.20m bgl.

Borehole Log

Borehole No.

WS118

Sheet 1 of 1

Project Name: Northenden College

Project No.
13969

Co-ords: 382080E - 390323N

Hole Type
WS

Location: Wythenshawe

Level: 32.25 m AOD

Scale
1:50

Client: Cushman and Wakefield

Dates: 14/05/2020

Logged By
E Fearn

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10			0.10	32.25		MADE GROUND: Asphalt.	
		0.20			0.20	32.15		MADE GROUND: Grey sandy gravel (MOT). Gravel is fine to coarse angular to sub-rounded of mudstone.	
		0.40			0.40	32.05		MADE GROUND: Black red sandy gravel. Gravel is fine to coarse angular to sub-angular of brick.	
								MADE GROUND: Light grey brown sandy clay.	
		1.00	SPT	N=11 (2,2/3,2,3,3)	0.90	31.85		Medium dense light brown gravelly medium SAND. Gravel is fine to coarse angular to sub-rounded of mudstone and sandstone.	1
		1.30	ES						
	▼ 2.00	2.00	SPT	N=15 (3,3/4,3,4,4)					2
					2.50	31.35			
		3.00	D SPT	N=13 (2,3/3,3,3,4)				Stiff medium strength light brown sandy CLAY. Becoming very stiff high strength from circa. 5.00m bgl.	3
		3.50 - 4.00	U						
		4.00	D SPT	N=15 (2,3/3,4,4,4)					4
		5.00	D SPT	N=22 (4,5/5,5,6,6)					5
		5.00			5.45	29.75		End of Borehole at 5.45m	6
									7
									8
									9
									10

Remarks

1. Water strike encountered at 2.00m bgl. 2. Complete. 3. Saturated strata between 2.00-2.50m bgl.

Borehole Log

Borehole No.

WS119

Sheet 1 of 1

Project Name: Northenden College

Project No.
13969

Co-ords: 382045E - 390293N

Hole Type
WS

Location: Wythenshawe

Level: 33.55 m AOD

Scale
1:50

Client: Cushman and Wakefield

Dates: 15/05/2020

Logged By
E Fearn

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20			0.20	33.55		MADE GROUND: Black brown slightly gravelly medium sand (Topsoil) with frequent rootlets. Gravel is fine to coarse angular to sub-angular of mudstone.	
		0.60	ES					MADE GROUND: Black brown slightly clayey gravelly medium sand. Gravel is fine to coarse angular to sub-rounded of mudstone, brick and concrete.	
		1.00	SPT	50 (2,6/50 for 67mm)					1
					1.45	33.35		End of Borehole at 1.45m	2
									3
									4
									5
									6
									7
									8
									9
									10

Remarks

1. Refused on concrete.

Borehole Log

Borehole No.

WS120

Sheet 1 of 1

Project Name: Northenden College

Project No.
13969

Co-ords: 382024E - 390355N

Hole Type
WS

Location: Wythenshawe

Level: 32.33 m AOD

Scale
1:50

Client: Cushman and Wakefield

Dates: 15/05/2020

Logged By
E Fearn

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10			0.10	32.33		MADE GROUND: Asphalt.	
		0.25			0.25	32.23		MADE GROUND: Grey sandy gravel (MOT). Gravel is fine to coarse angular to sub-rounded of mudstone.	
		0.40	ES		0.50	32.08		MADE GROUND: Black red sandy gravel. Gravel is fine to coarse angular to sub-angular of brick.	
		1.00	SPT	N=33 (5,7/9,8,8,8)				Dense light yellow brown gravelly medium SAND. Gravel is fine to coarse angular to rounded of sandstone.	1
		1.40	ES						
	▼ 2.00	2.00	SPT	N=11 (4,4/2,3,3,3)	1.80	31.83		Medium dense light brown slightly gravelly medium SAND. Gravel is fine to coarse angular to sub-rounded of mudstone and sandstone. Becoming loose from circa. 3.00m bgl.	2
		3.00	D SPT	N=10 (1,1/2,2,3,3)					3
		3.60			3.60	30.53		Very stiff high strength light brown sandy CLAY.	4
		4.00	D SPT	N=20 (2,5/4,4,6,6)	4.45	28.73		End of Borehole at 4.45m	5
									6
									7
									8
									9
									10

Remarks

1. Water strike encountered at 2.00m bgl. 2. Terminated due to casing being stuck. 3. Saturated strata between 2.00-3.60m bgl.

Borehole Log

Borehole No.

WS121

Sheet 1 of 1

Project Name: Northenden College

Project No.
13969

Co-ords: 382050E - 390367N

Hole Type
WS

Location: Wythenshawe

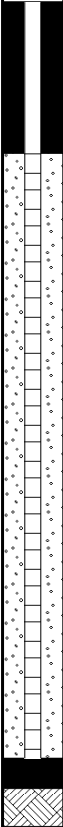
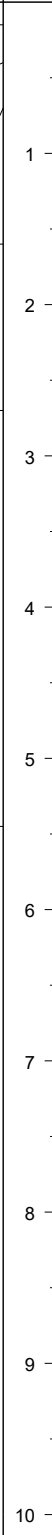
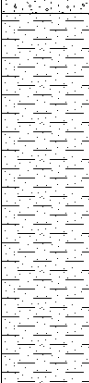
Level: 32.24 m AOD

Scale
1:50

Client: Cushman and Wakefield

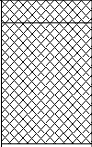
Dates: 15/05/2020

Logged By
E Fearn

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.15	32.24		MADE GROUND: Asphalt.	
		0.50	ES		0.40	32.09		MADE GROUND: Grey sandy gravel (MOT). Gravel is fine to coarse angular to sub-angular of mudstone.	
					0.70	31.84		MADE GROUND: Black brown slightly clayey gravelly medium sand. Gravel is fine to coarse angular to sub-rounded of mudstone and organics.	
		1.00	SPT	N=27 (4,6/7,6,7,7)				Medium dense light yellow brown slightly gravelly medium SAND. Gravel is fine to coarse angular to sub-rounded of sandstone.	
		1.20	ES						
					1.60	31.54		Loose light brown gravelly medium SAND. Gravel is fine to coarse angular to sub-angular of mudstone and sandstone.	
		2.00	SPT	N=10 (4,3/3,3,1,3)					
					2.70	30.64		Stiff medium strength light brown sandy CLAY. Becmoing very stiff high strength from circa. 5.00m bgl.	
		3.00	D						
		3.00	SPT	N=12 (2,2/3,3,3,3)					
		4.00	D						
		4.00	SPT	N=15 (2,3/3,4,4,4)					
		4.50 - 5.00	U						
		5.00	D						
5.00	SPT	N=28 (5,6/6,7,7,8)							
			5.45	29.54	End of Borehole at 5.45m				

Remarks

1. Monitoring well installed. 2. Complete.

					Borehole Log			Borehole No. WS122 Sheet 1 of 1	
Project Name: Northenden College					Project No. 13969		Co-ords: 382037E - 390392N		Hole Type WS
Location: Wythenshawe					Level: 32.45 m AOD		Scale 1:50		Logged By E Fearn
Client: Cushman and Wakefield					Dates: 15/05/2020				
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.50	SPT	50 (25 for 160mm/50 for 135mm)	0.15	32.45		MADE GROUND: Black brown slightly gravelly medium sand (Topsoil) with frequent rootlets. Gravel is fine to coarse angular to sub-angular of mudstone. MADE GROUND: Grey sandy gravel. Gravel is fine to coarse angular to sub-rounded of mudstone and limestone.	1
					0.95	32.30		End of Borehole at 0.95m	2
									3
									4
									5
									6
									7
									8
									9
									10
Remarks 1. Refused due to barrel being unable to get through strata.									

Borehole Log

Borehole No.

WS123

Sheet 1 of 1

Project Name: Northenden College

Project No.
13969

Co-ords: 381983E - 390361N

Hole Type
WS

Location: Wythenshawe

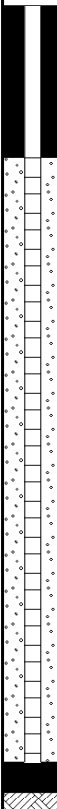
Level: 32.30 m AOD

Scale
1:50

Client: Cushman and Wakefield

Dates: 15/05/2020

Logged By
E Fearn

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10			0.10	32.30		MADE GROUND: Asphalt.	1
								MADE GROUND: Grey sandy gravel (MOT). Gravel is fine to coarse angular to sub-rounded of mudstone and limestone.	
		0.60			0.60	32.20		MADE GROUND: Black gravelly medium sand. Gravel is fine to coarse angular to sub-angular of asphalt.	1
		0.90			0.90	31.70		Medium dense light yellow brown gravelly medium SAND. Gravel is fine to coarse angular to sub-rounded of sandstone.	
		1.00	SPT	N=16 (5,4/4,4,4,4)					
		1.10	ES						
		1.80			1.80	31.40		Medium dense light brown gravelly medium SAND. Gravel is fine to coarse angular to sub-angular of mudstone and sandstone.	2
		2.00	SPT	N=17 (5,3/5,5,5,2)					
		2.80			2.80	30.50		Stiff medium strength light brown sandy CLAY. Becoming very stiff high strength from circa. 4.00m bgl.	3
		3.00	D SPT	N=12 (2,2/2,3,4,3)					
		3.50 - 4.00	U						
		4.00	D SPT	N=18 (3,3/4,4,5,5)					4
		4.00							
		5.00	D SPT	N=24 (4,4/5,6,6,7)					5
		5.00							
		5.45			5.45	29.50	End of Borehole at 5.45m		

Remarks

1. Water strike encountered at 2.00m bgl. 2. Monitoring well installed. 3. Complete. 4. Saturated strata between 2.00-2.80m bgl.

Borehole Log

Borehole No.

WS124

Sheet 1 of 1

Project Name: Northenden College

Project No.
13969

Co-ords: 382001E - 390386N

Hole Type
WS

Location: Wythenshawe

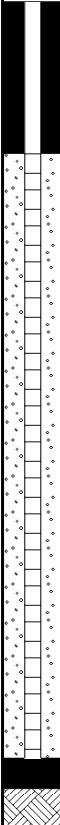
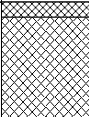
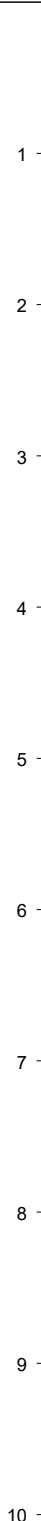
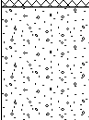
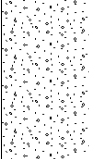
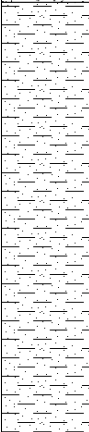
Level: 32.15 m AOD

Scale
1:50

Client: Cushman and Wakefield

Dates: 15/05/2020

Logged By
E Fearn

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.10	32.15		MADE GROUND: Asphalt.	
		0.40	ES					MADE GROUND: Black red slightly gravelly clayey medium sand. Gravel is fine to coarse angular to sub-rounded of mudstone and brick.	
		1.00	SPT	N=16 (2,2/2,5,5,4)	0.80	32.05		Medium dense light brown slightly gravelly medium SAND. Gravel is fine to coarse angular to sub-angular of mudstone and sandstone.	
		1.30	ES						
		2.00	SPT	N=16 (4,3/4,4,5,3)					
					2.60	31.35		Stiff medium strength light brown sandy CLAY. Becoming very stiff high strength from circa. 4.00m bgl, then becoming very stiff very high strength from circa. 5.00m bgl.	
		3.00	D						
		3.00	SPT	N=16 (2,3/4,4,4,4)					
		4.00	SPT	N=18 (4,3/4,4,5,5)					
		5.00	D						
5.00	SPT	50 (5,10/50 for 235mm)	5.45	29.55	End of Borehole at 5.45m				

Remarks

1. Water strike encountered at 2.00m bgl. 2. Monitoring well installed. 3. Complete. 4. Saturated strata between 2 - 2.6m bgl.

Borehole Log

Borehole No.

WS125

Sheet 1 of 1

Project Name: Northenden College

Project No.
13969

Co-ords: 382134E - 390347N

Hole Type
WS

Location: Wythenshawe

Level: 32.82 m AOD

Scale
1:50

Client: Cushman and Wakefield

Dates: 20/05/2020

Logged By
E Fearn

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.30	ES		0.40	32.82		MADE GROUND: Black brown slightly clayey medium sand (Topsoil) with frequent rootlets.	
		1.00	SPT	N=8 (2,2/2,2,2,2)				MADE GROUND: Loose dark brown clayey gravelly medium sand. Gravel is fine to coarse angular to sub-rounded of mudstone and brick.	1
		1.80	ES		1.60	32.42		Loose light brown gravelly SAND. Gravel is fine to coarse angular to sub-rounded of mudstone and sandstone.	
		2.00	SPT	N=8 (2,2/2,2,2,2)					2
		3.00	SPT	N=8 (2,2/2,2,2,2)	3.10	31.22		Firm low strength light brown sandy CLAY. Becoming stiff medium strength from circa. 4.00m bgl, then becoming very stiff high strength from circa. 5.00m bgl.	3
		4.00	D						
		4.00	SPT	N=11 (2,2/2,3,3,3)					4
		5.00	SPT	N=22 (5,5/5,5,6,6)	5.45	29.72		End of Borehole at 5.45m	5
									6
									7
									8
									9
									10

Remarks

1. Monitoring well installed. 2. Complete.

Borehole Log

Borehole No.

WS126

Sheet 1 of 1

Project Name: Northenden College

Project No.
13969

Co-ords: 382170E - 390413N

Hole Type
WS

Location: Wythenshawe

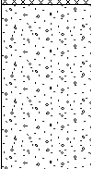
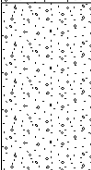
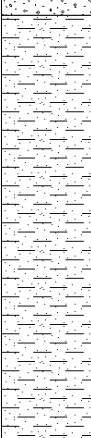
Level: 32.34 m AOD

Scale
1:50

Client: Cushman and Wakefield

Dates: 20/05/2020

Logged By
E Fearn

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10	ES		0.30	32.34		MADE GROUND: Black brown slightly clayey gravelly medium sand (Topsoil) with frequent rootlets. Gravel is fine to coarse angular to sub-rounded of mudstone and brick.	
		1.00	SPT	N=11 (2,2/3,3,2,3)	1.40	32.04		Medium dense light yellow brown slightly gravelly medium SAND. Gravel is fine to coarse angular to sub-rounded of mudstone and sandstone.	1
		1.60	ES						
		2.00	SPT	N=8 (2,2/2,2,2,2)	2.60	30.94		Loose light brown slightly gravelly coarse SAND. Gravel is fine to coarse angular to sub-rounded of mudstone and sandstone.	2
		3.00	D						
		3.00	SPT	N=13 (2,3/3,3,4,3)				Stiff medium strength light brown sandy CLAY. Becoming very stiff high strength from circa. 4.00m bgl.	3
		3.50 - 4.00	U						
		4.00	D						
		4.00	SPT	N=18 (3,3/3,5,5,5)					4
		5.00	D						
		5.00	SPT	N=16 (3,3/3,3,4,6)	5.45	29.74			5
								End of Borehole at 5.45m	6
									7
									8
									9
									10

Remarks

1. Complete.

Borehole Log

Borehole No.

WS127

Sheet 1 of 1

Project Name: Northenden College

Project No.
13969

Co-ords: 382061E - 390398N

Hole Type
WS

Location: Wythenshawe

Level: 32.07 m AOD

Scale
1:50

Client: Cushman and Wakefield

Dates: 21/05/2020

Logged By
E Fearn

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.10 0.20	32.07 31.97		MADE GROUND: Concrete. MADE GROUND: Grey sandy gravel (MOT). Gravel is fine to coarse angular to sub-rounded of mudstone and limestone. Loose light brown slightly gravelly medium SAND. Gravel is fine to coarse angular to sub-rounded of mudstone and sandstone.	1
		0.90 1.00	ES SPT	N=9 (2,3/3,2,2,2)					
		2.00	SPT	N=8 (2,2/2,2,2,2)					2
					2.40	31.87			
		3.00 3.00	D SPT	N=11 (2,2/2,3,3,3)				Stiff medium strength light brown sandy CLAY. Becoming very stiff high strength from circa. 5.00m bgl.	3
		4.00 4.00	D SPT	N=12 (2,3/3,3,3,3)					4
		5.00 5.00	D SPT	50 (4,5/50 for 265mm)					5
					5.45	29.67		End of Borehole at 5.45m	6
									7
									8
									9
									10

Remarks

1. Monitoring well installed. 2. Complete.

Borehole Log

Borehole No.

WS128

Sheet 1 of 1

Project Name: Northenden College

Project No.
13969

Co-ords: 381977E - 390396N

Hole Type
WS

Location: Wythenshawe

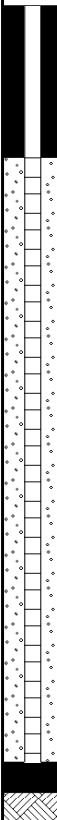
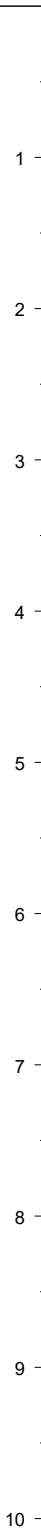
Level: 32.02 m AOD

Scale
1:50

Client: Cushman and Wakefield

Dates: 21/05/2020

Logged By
E Fearn

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10			0.10	32.02		MADE GROUND: Concrete.	
		0.30			0.30	31.92		MADE GROUND: Dark grey sandy gravel (MOT). Gravel is fine to coarse angular to sub-rounded of mudstone and limestone.	
		0.80	ES					Medium dense light brown slightly clayey gravelly medium SAND. Gravel is fine to coarse angular to sub-rounded of mudstone and sandstone.	
		1.00	SPT	N=10 (2,3/3,2,3,2)					
		2.00	SPT	N=8 (2,2/2,2,2,2)					
		2.20			2.20	31.72			
		3.00	SPT	N=23 (4,5/6,7,5,5)					
		4.00	SPT	N=15 (2,2/3,4,4,4)					
		5.00	D						
		5.00	SPT	N=27 (2,4/3,6,8,10)					
		5.45			5.45	29.82		Firm low strength light brown sandy CLAY. Becoming very stiff high strength from circa. 3.00m bgl, then becoming stiff medium strength from circa. 4.00m bgl and then very stiff high strength from circa. 5.00m bgl.	
								End of Borehole at 5.45m	

Remarks

1. Monitoring well installed. 2. No SPT return from 3.00m and 4.00m. 3. Complete.

Project Name: Northenden College

Project No.
13969

Co-ords: 381984E - 390429N

Hole Type
WS

Location: Wythenshawe

Level: 32.39 m AOD

Scale
1:50

Client: Cushman and Wakefield

Dates: 21/05/2020

Logged By
E Fearn

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.30			0.30	32.39		MADE GROUND: Grey sandy gravel (MOT). Gravel is fine to coarse angular to sub-rounded of mudstone.	
		1.00	SPT	N=10 (3,3/2,3,2,3)				Medium dense light brown slightly gravelly medium SAND. Gravel is fine to coarse angular to sub-rounded of mudstone.	1
		1.60	ES						
		2.00	SPT	N=11 (3,3/2,2,3,4)					2
		2.80			2.80	32.09		Stiff medium strength light brown sandy CLAY.	3
		3.00	D SPT	N=10 (2,1/2,3,2,3)					
		3.50 - 4.00	U						4
		4.00	D SPT	N=15 (2,2/3,4,4,4)					
		4.45			4.45	29.59		End of Borehole at 4.45m	5
									6
									7
									8
									9
									10

Remarks

1. Monitoring well installed. 2. Terminated due to collapse in sand strata.



Probe Log

Borehole No.

SHDP101

Sheet 1 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382191.00 - 390224.00

Hole Type
DP

Location: Wythenshawe

Level: 32.46

Scale
1:25

Client: Cushman and Wakefield

Dates: 14/05/2020 -

Logged By
J Aspinall

Depth (m)	Blows/100mm				Torque (Nm)
	10	20	30	40	
1	2				
	3				
	3				
	3				
	3				
	4				
	5				
	6				
	8				
	6				
2	7				
	6				
	6				
	6				
	5				
	5				
	5				
	6				
	4				
	5				
3	4				
	3				
	3				
	5				
	4				
	3				
	2				
	3				
	2				
	2				
4	2				
	3				
	4				
	3				
	3				
	2				
	3				
	6				
	9				
	7				
5	5				
	5				
	5				
	5				
	6				
	5				
	5				
	5				
	4				
	4				

Remarks

1. Complete.

Fall Height

Hammer Wt

Probe Type

Cone Base Diameter

Final Depth 6.00

Log Scale 1:25





Probe Log

Borehole No.

SHDP101

Sheet 2 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382191.00 - 390224.00

Hole Type
DP

Location: Wythenshawe

Level: 32.46

Scale
1:25

Client: Cushman and Wakefield

Dates: 14/05/2020 -

Logged By
J Aspinall

Depth (m)	Blows/100mm				Torque (Nm)
	10	20	30	40	
6	6				
	5				
	6				
	7				
	8				
	8				
	10				
	10				
	10				
	11				
7					
8					
9					
10					

Remarks

1. Complete.

Fall Height

Cone Base Diameter

Hammer Wt

Final Depth 6.00

Probe Type

Log Scale 1:25





Probe Log

Borehole No.

SHDP102

Sheet 1 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382144.00 - 390229.00

Hole Type
DP

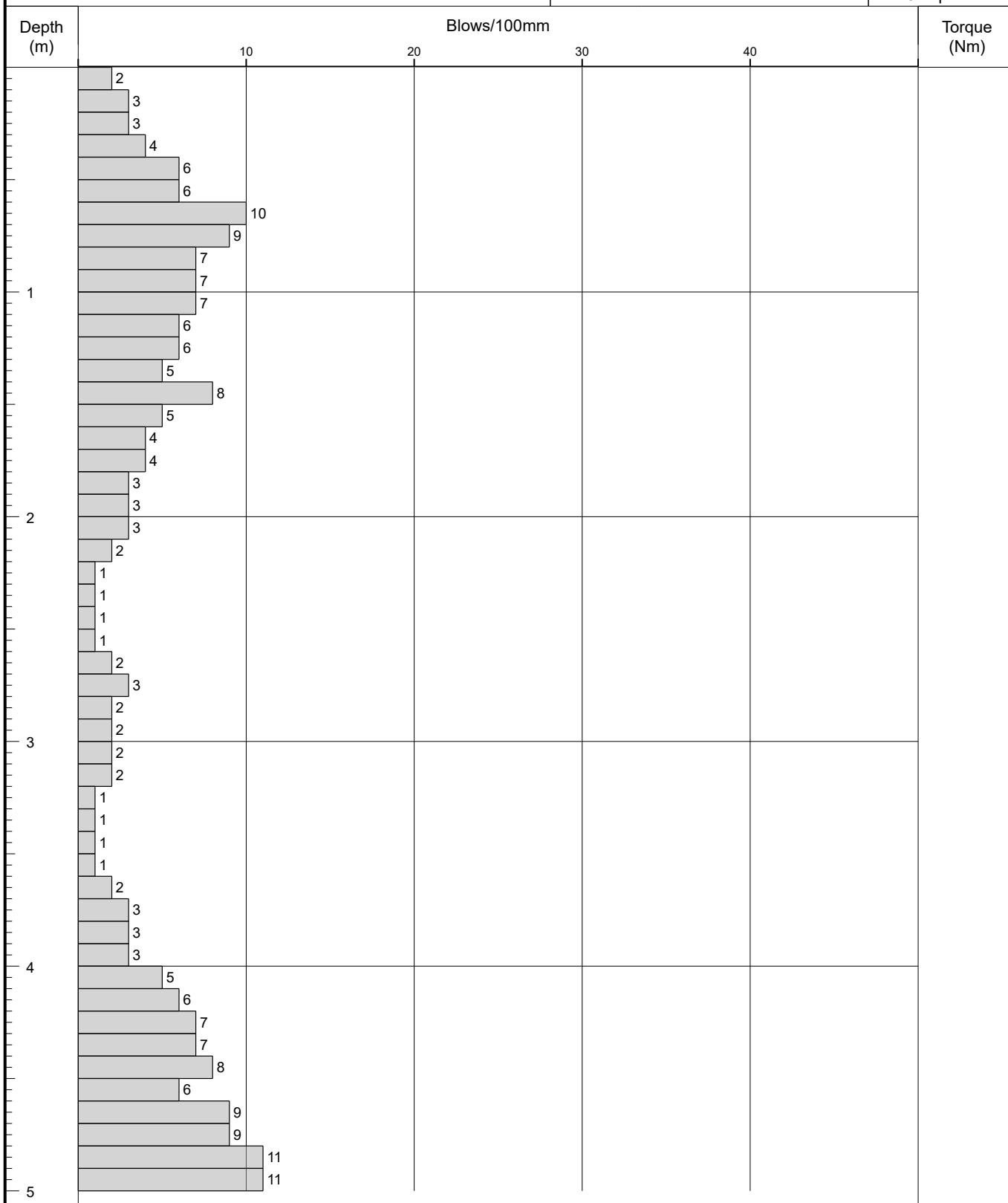
Location: Wythenshawe

Level: 32.34

Scale
1:25

Client: Cushman and Wakefield

Dates: 14/05/2020 -

Logged By
J Aspinall

Remarks

1. Complete.

Fall Height

Hammer Wt

Probe Type

Cone Base Diameter

Final Depth 6.00

Log Scale 1:25





Probe Log

Borehole No.
SHDP102

Sheet 2 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382144.00 - 390229.00

Hole Type
DP

Location: Wythenshawe

Level: 32.34

Scale
1:25

Client: Cushman and Wakefield

Dates: 14/05/2020 -

Logged By
J Aspinall

Depth (m)	Blows/100mm				Torque (Nm)
	10	20	30	40	
	12				
	10				
	18				
	16				
	14				
	17				
	17				
	14				
	14				
6	13				
7					
8					
9					
10					

Remarks

1. Complete.

Fall Height

Hammer Wt

Probe Type

Cone Base Diameter

Final Depth 6.00

Log Scale 1:25





Probe Log

Borehole No.
SHDP103

Sheet 1 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382131.00 - 390203.00

Hole Type
DP

Location: Wythenshawe

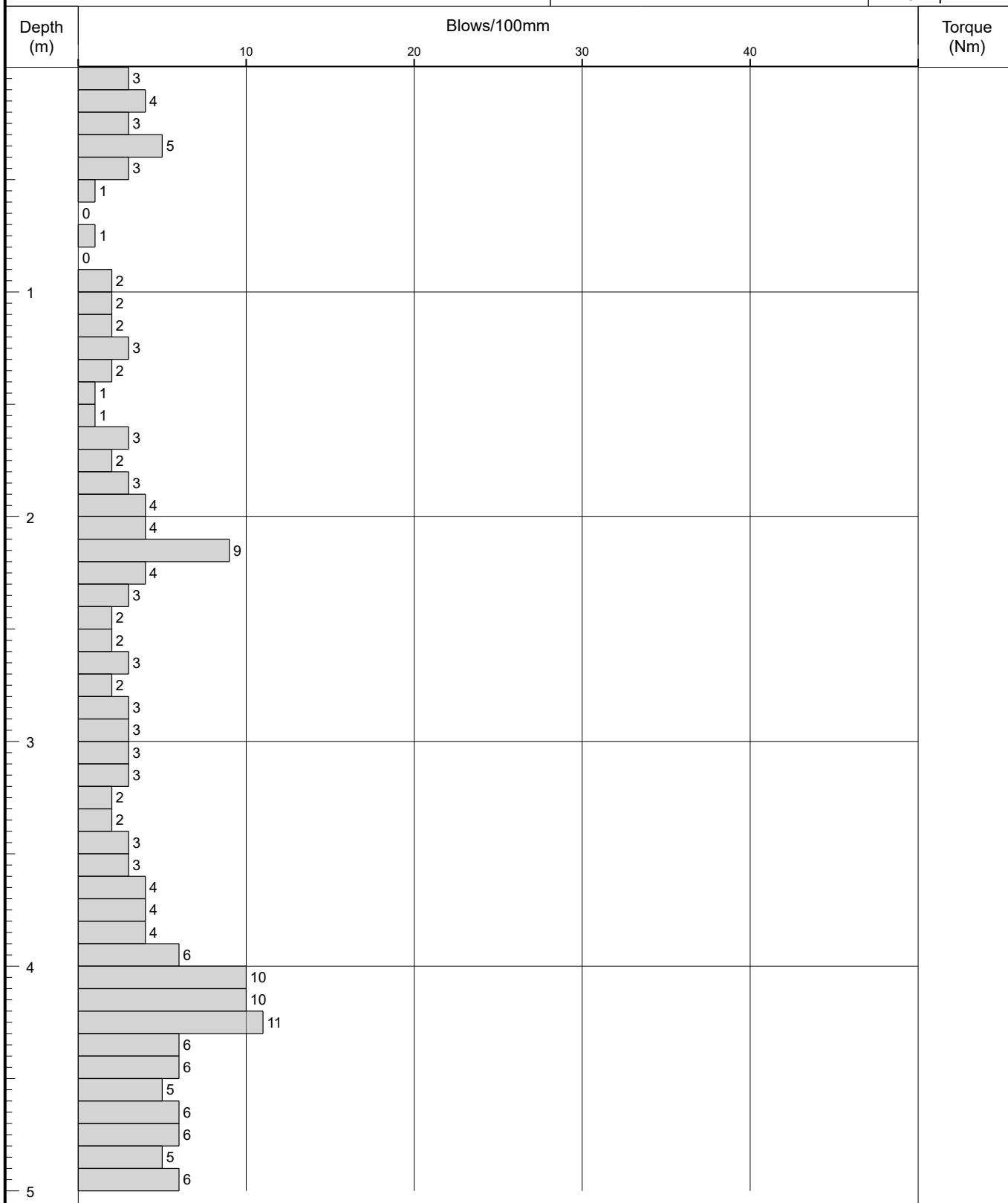
Level: 32.32

Scale
1:25

Client: Cushman and Wakefield

Dates: 14/05/2020 -

Logged By
J Aspinall



Remarks

1. Complete.

Fall Height

Hammer Wt

Probe Type

Cone Base Diameter

Final Depth 6.00

Log Scale 1:25





Probe Log

Borehole No.

SHDP103

Sheet 2 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382131.00 - 390203.00

Hole Type
DP

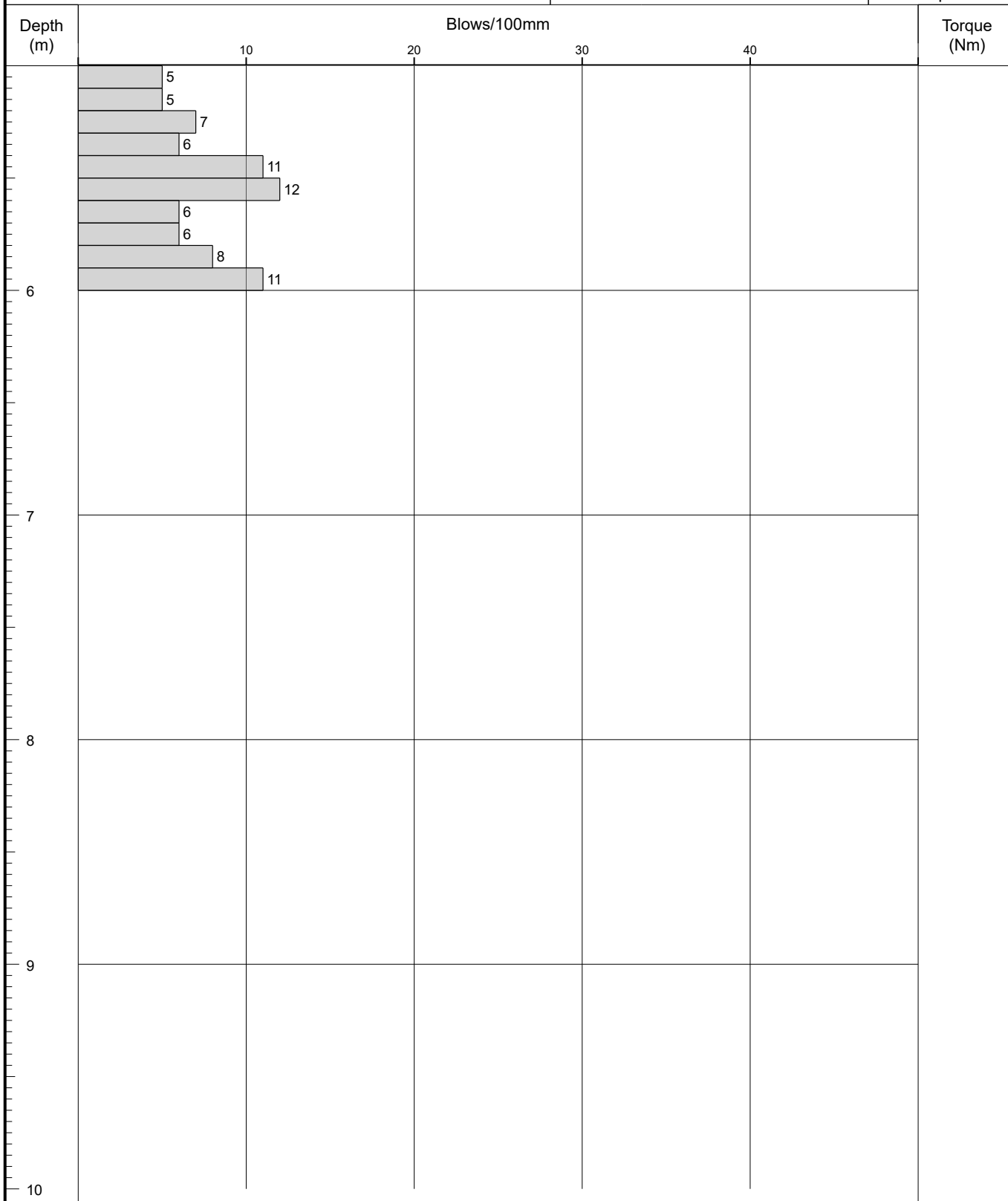
Location: Wythenshawe

Level: 32.32

Scale
1:25

Client: Cushman and Wakefield

Dates: 14/05/2020 -

Logged By
J Aspinall

Remarks

1. Complete.

Fall Height

Hammer Wt

Probe Type

Cone Base Diameter

Final Depth 6.00

Log Scale 1:25





Probe Log

Borehole No.

SHDP104

Sheet 1 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382164.00 - 390149.00

Hole Type
DP

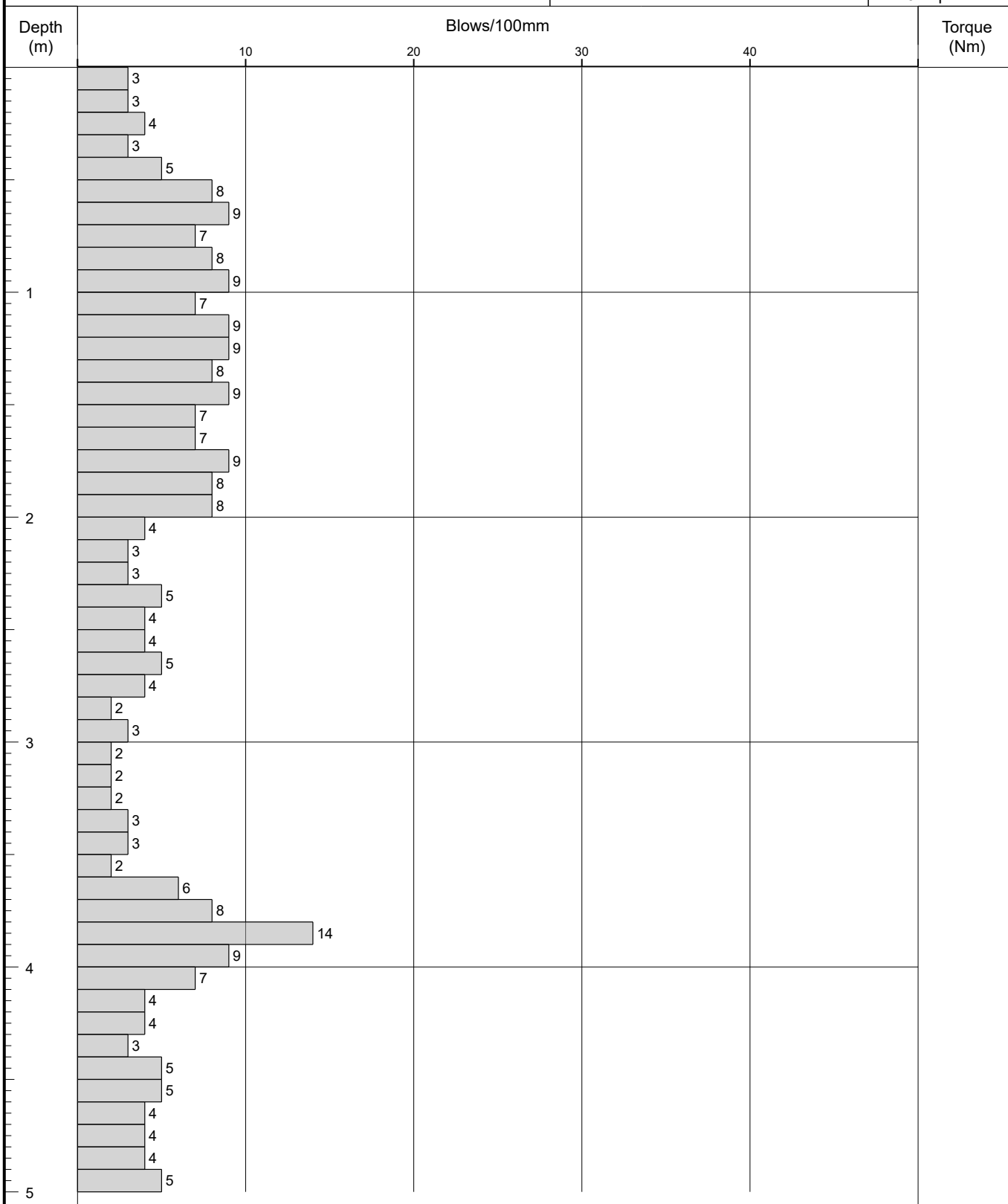
Location: Wythenshawe

Level: 32.96

Scale
1:25

Client: Cushman and Wakefield

Dates: 14/05/2020 -

Logged By
J Aspinall

Remarks

1. Complete.

Fall Height

Hammer Wt

Probe Type

Cone Base Diameter

Final Depth 6.00

Log Scale 1:25





Probe Log

Borehole No.

SHDP104

Sheet 2 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382164.00 - 390149.00

Hole Type
DP

Location: Wythenshawe

Level: 32.96

Scale
1:25

Client: Cushman and Wakefield

Dates: 14/05/2020 -

Logged By
J Aspinall

Depth (m)	Blows/100mm				Torque (Nm)
	10	20	30	40	
6	4 4 3 5 5 6 4 4 4 5				
7					
8					
9					
10					

Remarks

1. Complete.

Fall Height

Hammer Wt

Probe Type

Cone Base Diameter

Final Depth 6.00

Log Scale 1:25





Probe Log

Borehole No.

SHDP105

Sheet 1 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382228.00 - 390124.00

Hole Type
DP

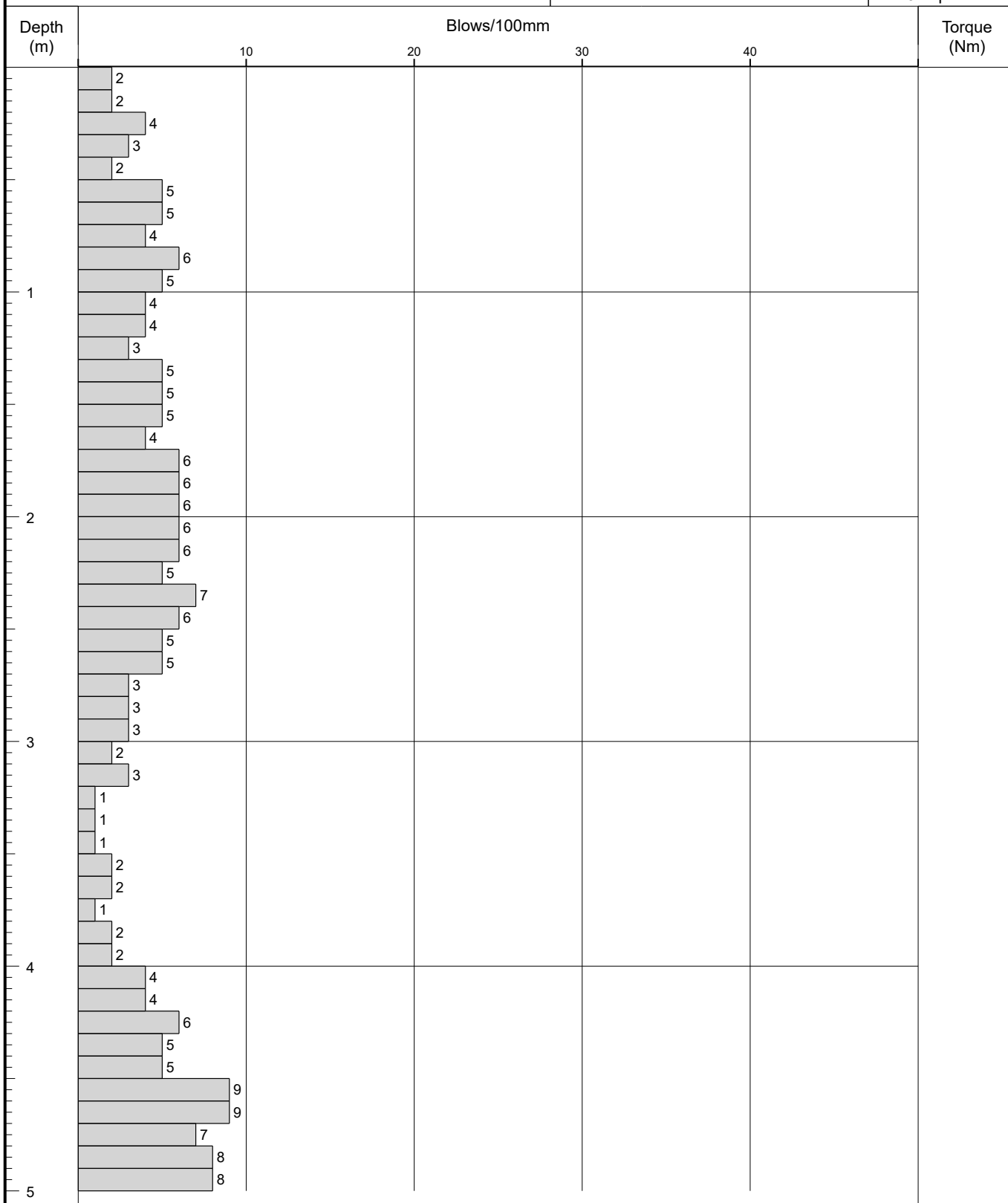
Location: Wythenshawe

Level: 32.87

Scale
1:25

Client: Cushman and Wakefield

Dates: 14/05/2020 -

Logged By
J Aspinall

Remarks

1. Complete.

Fall Height

Hammer Wt

Probe Type

Cone Base Diameter

Final Depth 6.00

Log Scale 1:25





Probe Log

Borehole No.

SHDP105

Sheet 2 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382228.00 - 390124.00

Hole Type
DP

Location: Wythenshawe

Level: 32.87

Scale
1:25

Client: Cushman and Wakefield

Dates: 14/05/2020 -

Logged By
J Aspinall

Depth (m)	Blows/100mm				Torque (Nm)
	10	20	30	40	
	8				
	8				
	11				
	9				
	9				
	7				
	8				
	10				
	9				
	9				
6					
7					
8					
9					
10					

Remarks

1. Complete.

Fall Height

Hammer Wt

Probe Type

Cone Base Diameter

Final Depth 6.00

Log Scale 1:25





Probe Log

Borehole No.

SHDP106

Sheet 1 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382232.00 - 390148.00

Hole Type
DP

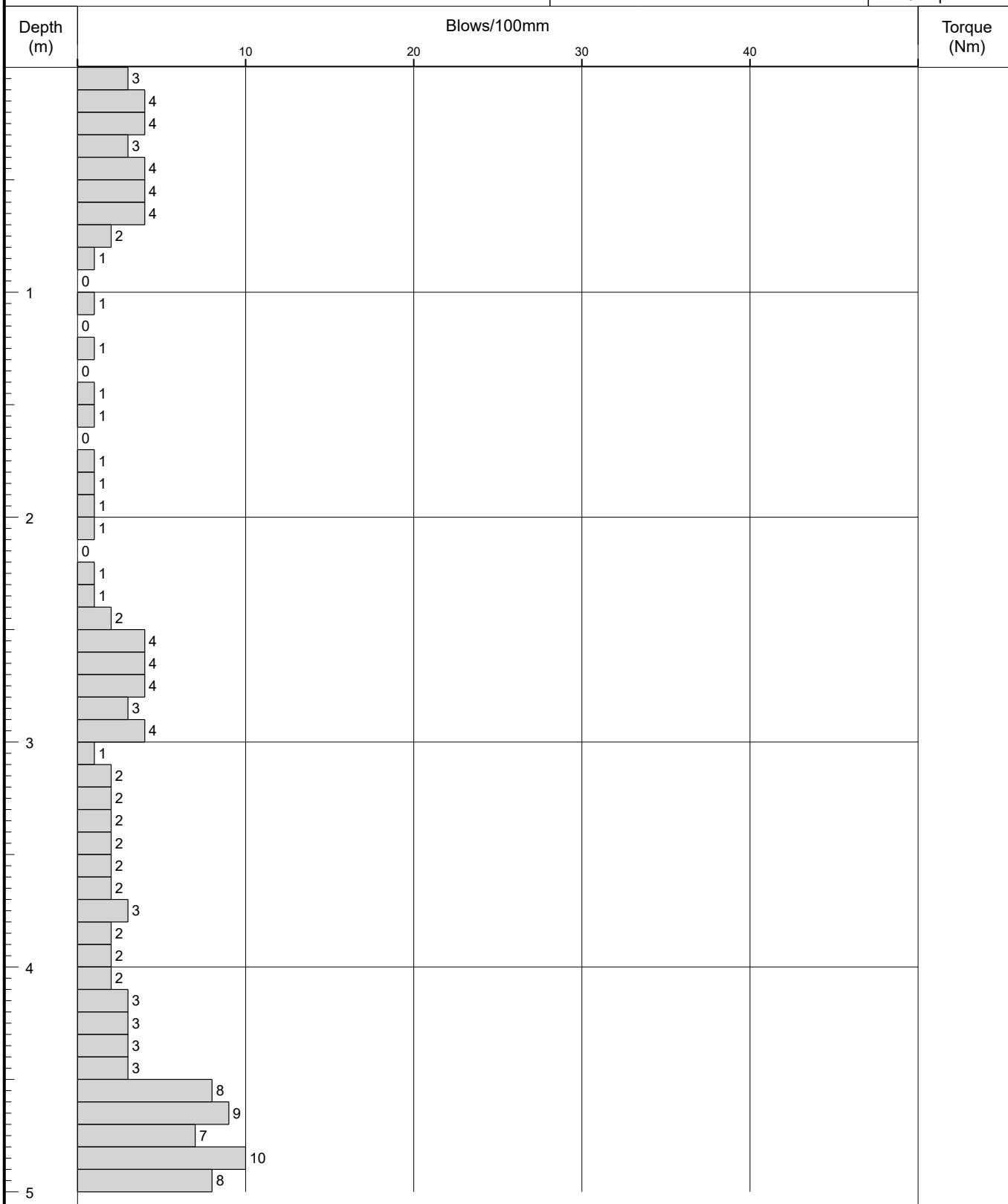
Location: Wythenshawe

Level: 32.52

Scale
1:25

Client: Cushman and Wakefield

Dates: 14/05/2020 -

Logged By
J Aspinall

Remarks

1. Complete.

Fall Height

Hammer Wt

Probe Type

Cone Base Diameter

Final Depth 6.00

Log Scale 1:25







Probe Log

Borehole No.
SHDP107

Sheet 1 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382225.00 - 390180.00

Hole Type
DP

Location: Wythenshawe

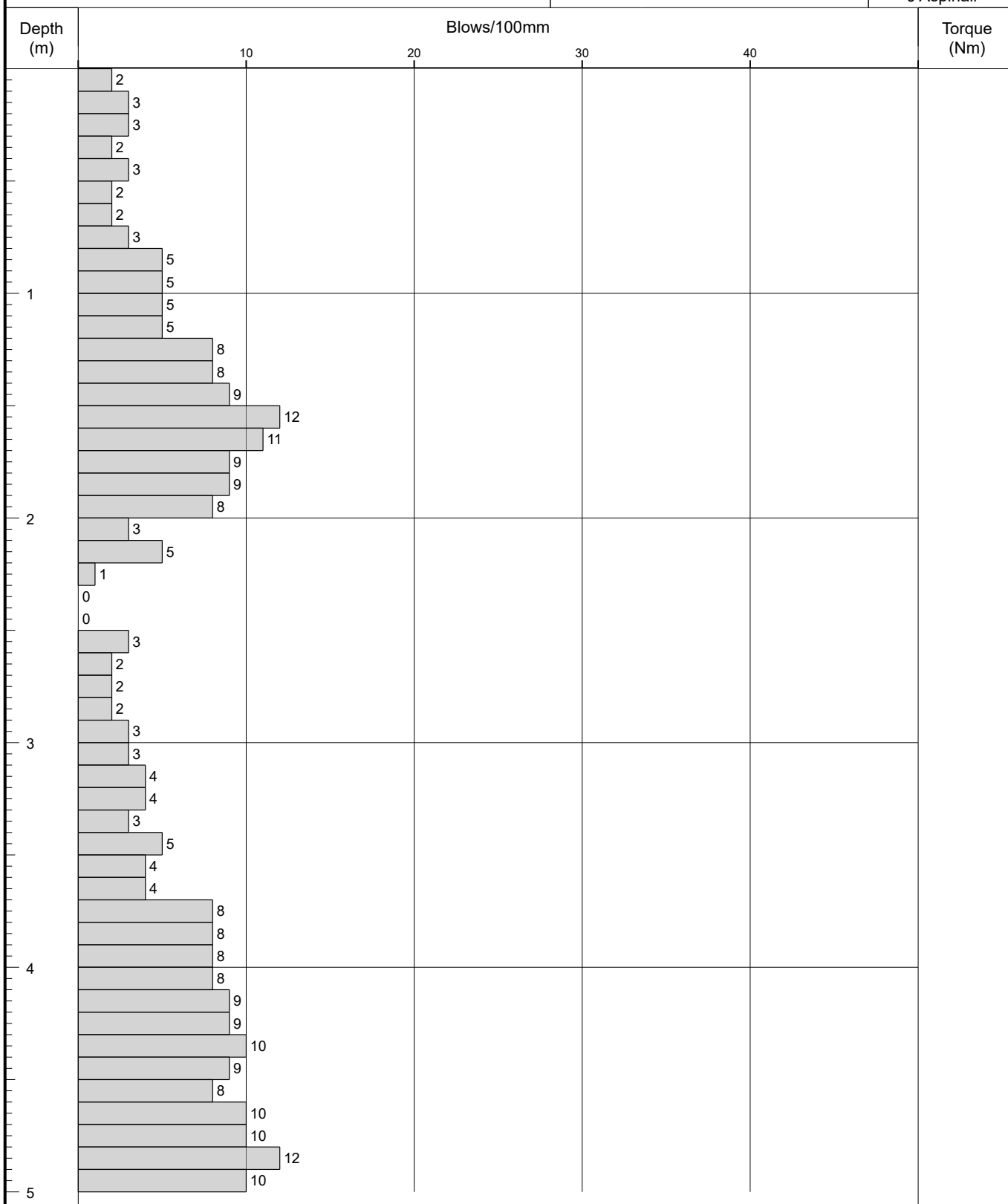
Level: 32.30

Scale
1:25

Client: Cushman and Wakefield

Dates: 14/05/2020 -

Logged By
J Aspinall



Remarks

1. Complete.

Fall Height

Hammer Wt

Probe Type

Cone Base Diameter

Final Depth 6.00

Log Scale 1:25





Probe Log

Borehole No.

SHDP107

Sheet 2 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382225.00 - 390180.00

Hole Type
DP

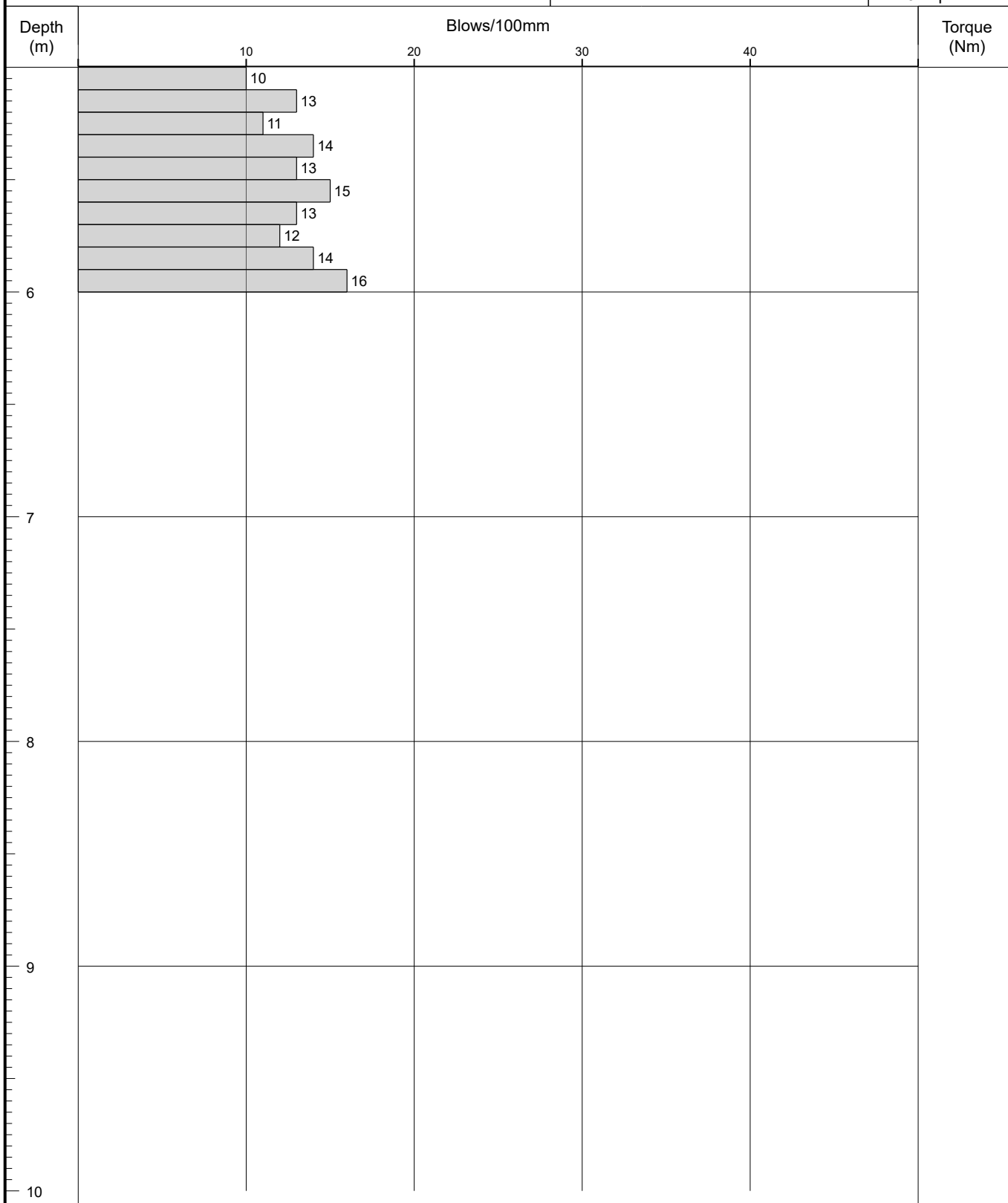
Location: Wythenshawe

Level: 32.30

Scale
1:25

Client: Cushman and Wakefield

Dates: 14/05/2020 -

Logged By
J Aspinall

Remarks

1. Complete.

Fall Height

Hammer Wt

Probe Type

Cone Base Diameter

Final Depth 6.00

Log Scale 1:25





Probe Log

Borehole No.
SHDP108

Sheet 1 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382261.00 - 390208.00

Hole Type
DP

Location: Wythenshawe

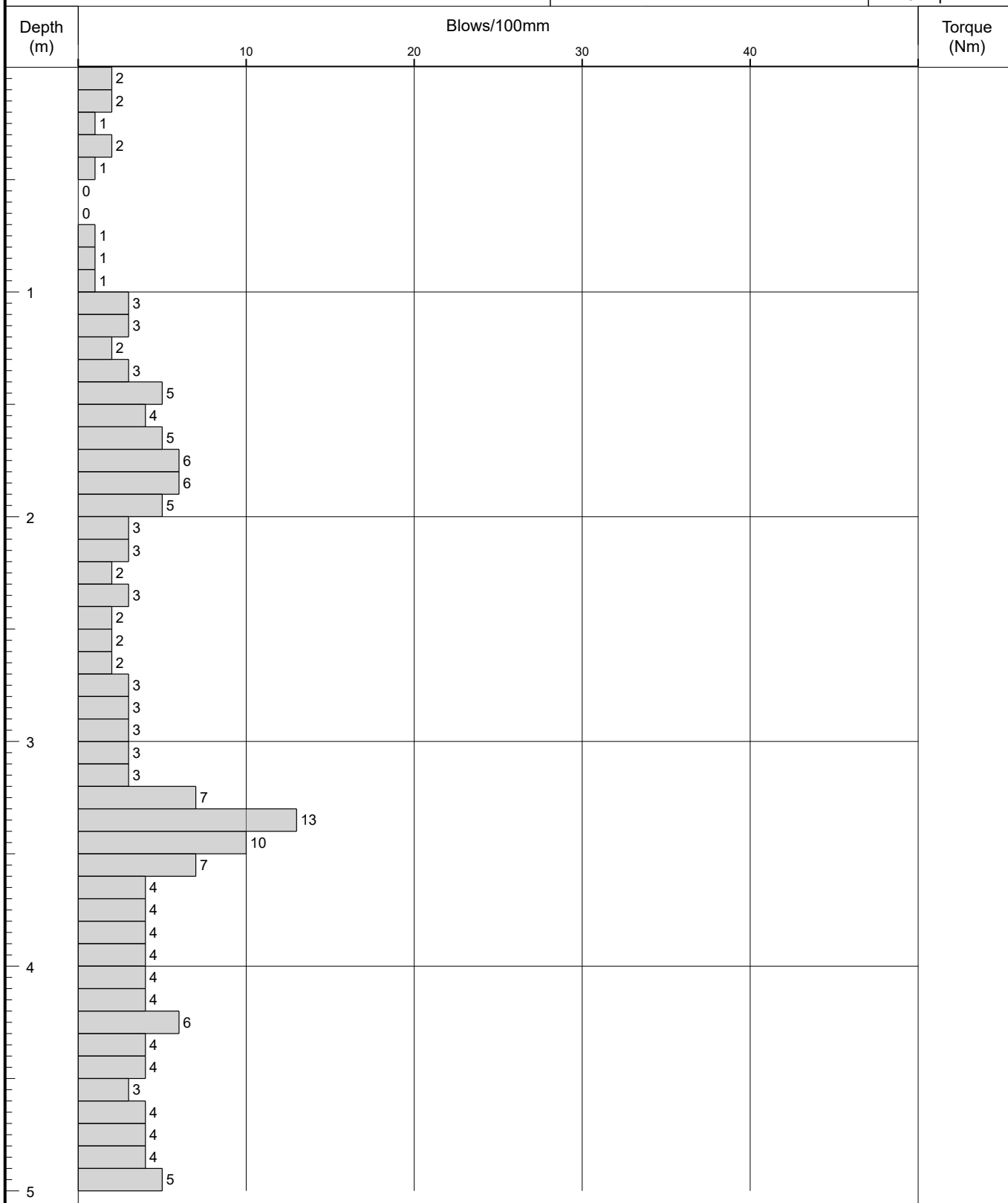
Level: 32.31

Scale
1:25

Client: Cushman and Wakefield

Dates: 14/05/2020 -

Logged By
J Aspinall



Remarks

1. Complete.

Fall Height

Hammer Wt

Probe Type

Cone Base Diameter

Final Depth 6.00

Log Scale 1:25





Probe Log

Borehole No.

SHDP108

Sheet 2 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382261.00 - 390208.00

Hole Type
DP

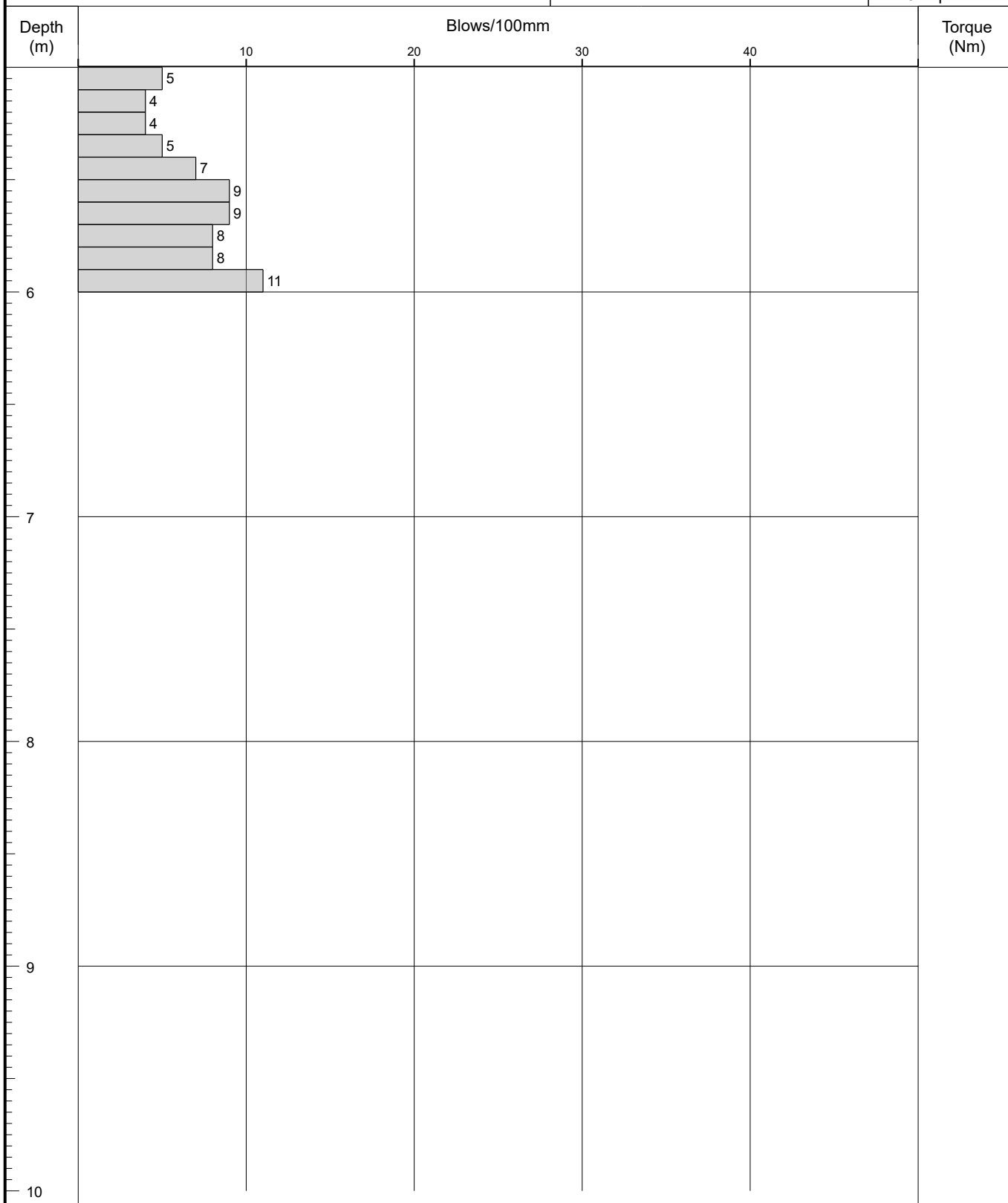
Location: Wythenshawe

Level: 32.31

Scale
1:25

Client: Cushman and Wakefield

Dates: 14/05/2020 -

Logged By
J Aspinall

Remarks

1. Complete.

Fall Height

Hammer Wt

Probe Type

Cone Base Diameter

Final Depth 6.00

Log Scale 1:25





Probe Log

Borehole No.

SHDP109

Sheet 1 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382206.00 - 390204.00

Hole Type
DP

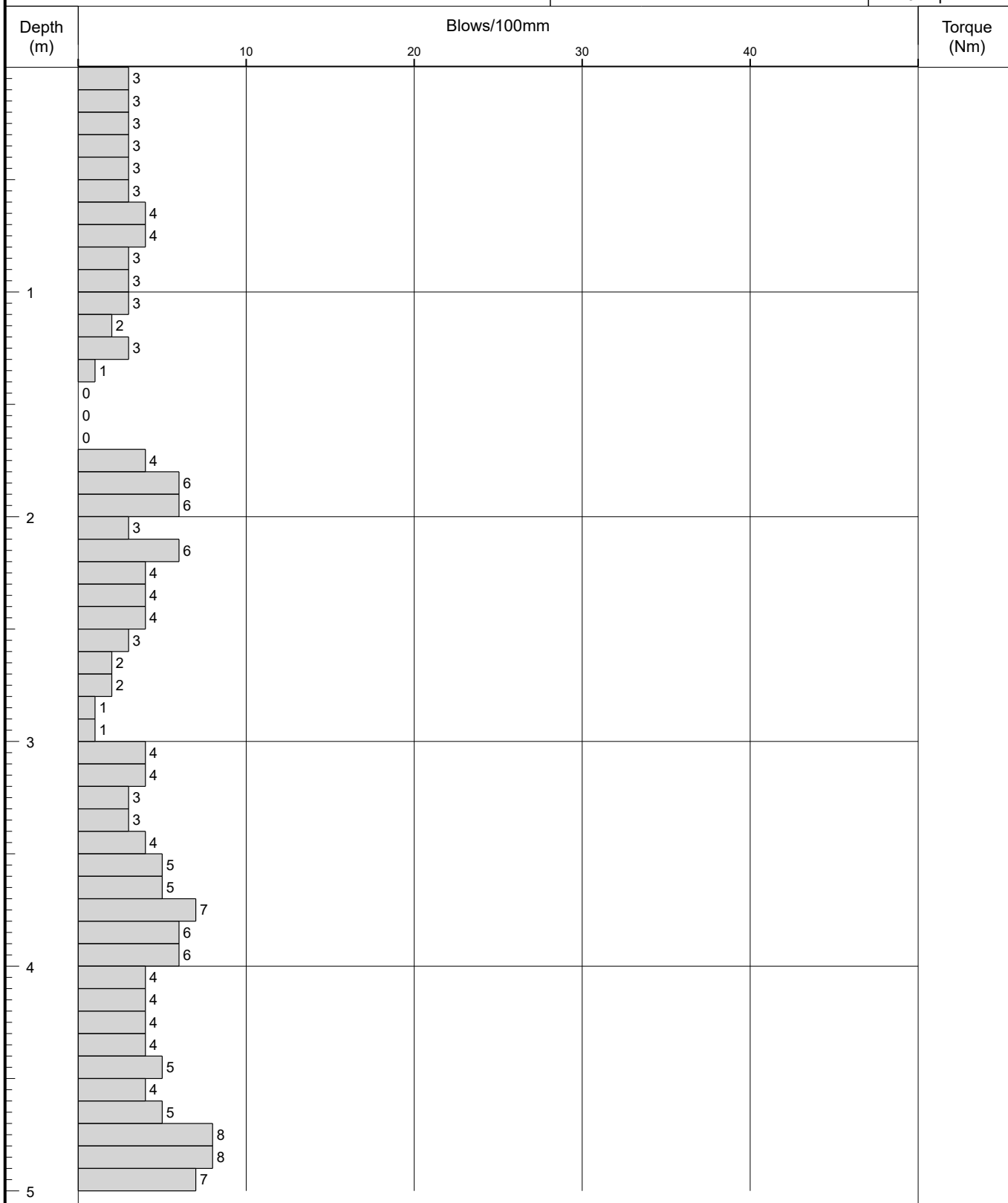
Location: Wythenshawe

Level: 32.41

Scale
1:25

Client: Cushman and Wakefield

Dates: 14/05/2020 -

Logged By
J Aspinall

Remarks

1. Complete.

Fall Height

Hammer Wt

Probe Type

Cone Base Diameter

Final Depth 6.00

Log Scale 1:25





Probe Log

Borehole No.
SHDP109

Sheet 2 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382206.00 - 390204.00

Hole Type
DP

Location: Wythenshawe

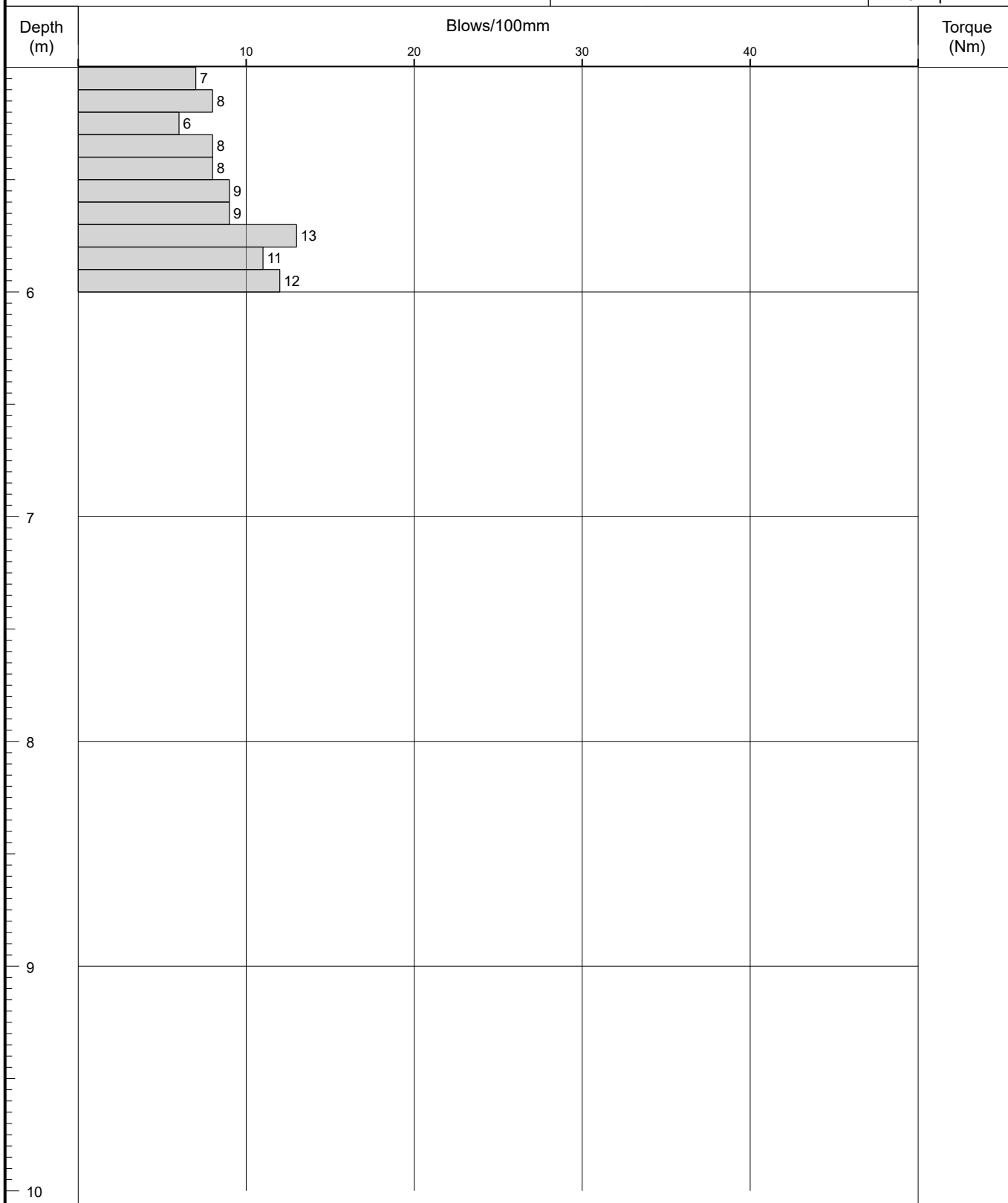
Level: 32.41

Scale
1:25

Client: Cushman and Wakefield

Dates: 14/05/2020 -

Logged By
J Aspinall



Remarks

1. Complete.

Fall Height

Hammer Wt

Probe Type

Cone Base Diameter

Final Depth 6.00

Log Scale 1:25





Probe Log

Borehole No.

SHDP110

Sheet 1 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382237.00 - 390276.00

Hole Type
DP

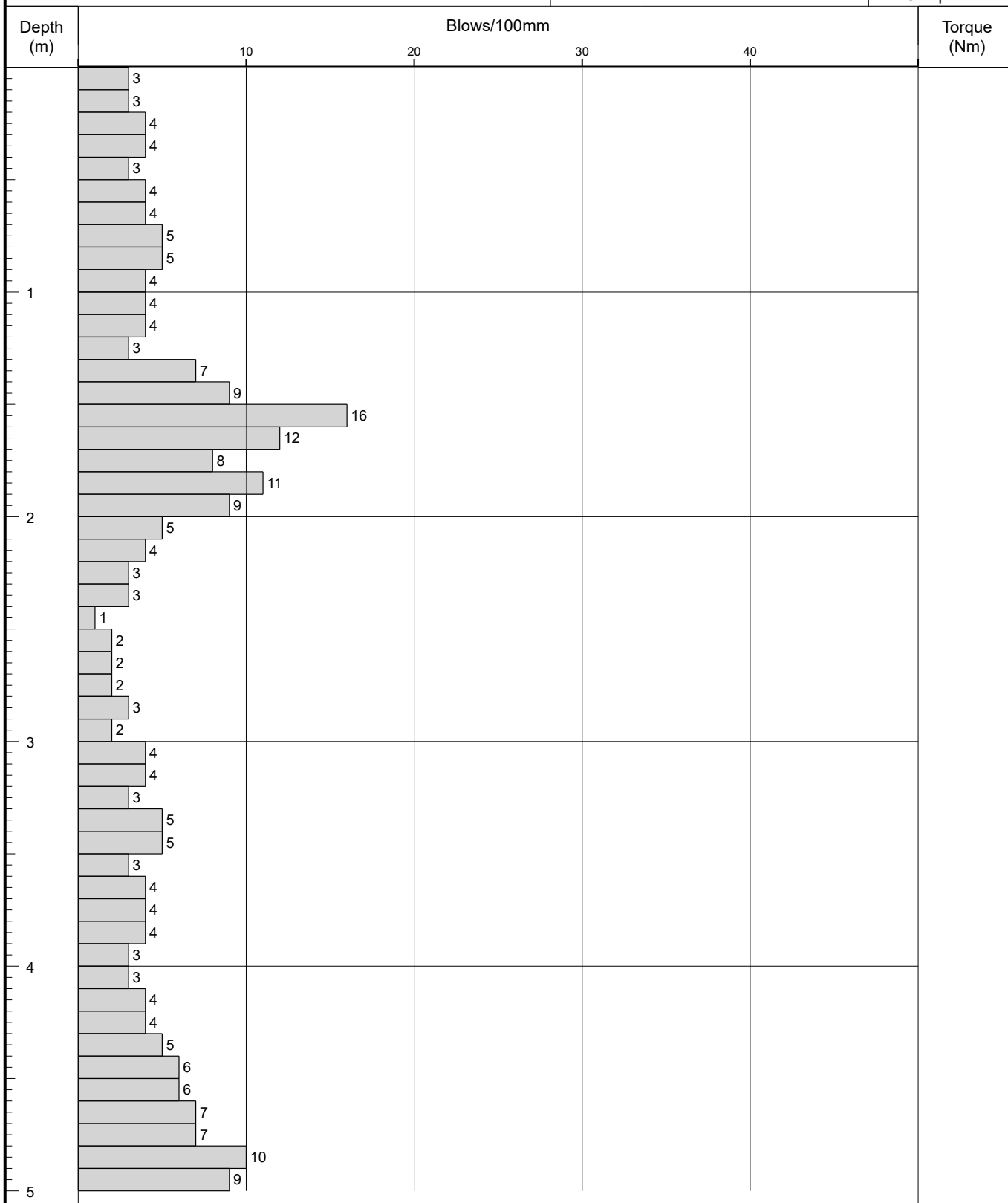
Location: Wythenshawe

Level: 32.77

Scale
1:25

Client: Cushman and Wakefield

Dates: 14/05/2020 -

Logged By
J Aspinall

Remarks

1. Complete.

Fall Height

Hammer Wt

Probe Type

Cone Base Diameter

Final Depth 6.00

Log Scale 1:25





Probe Log

Borehole No.

SHDP110

Sheet 2 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382237.00 - 390276.00

Hole Type
DP

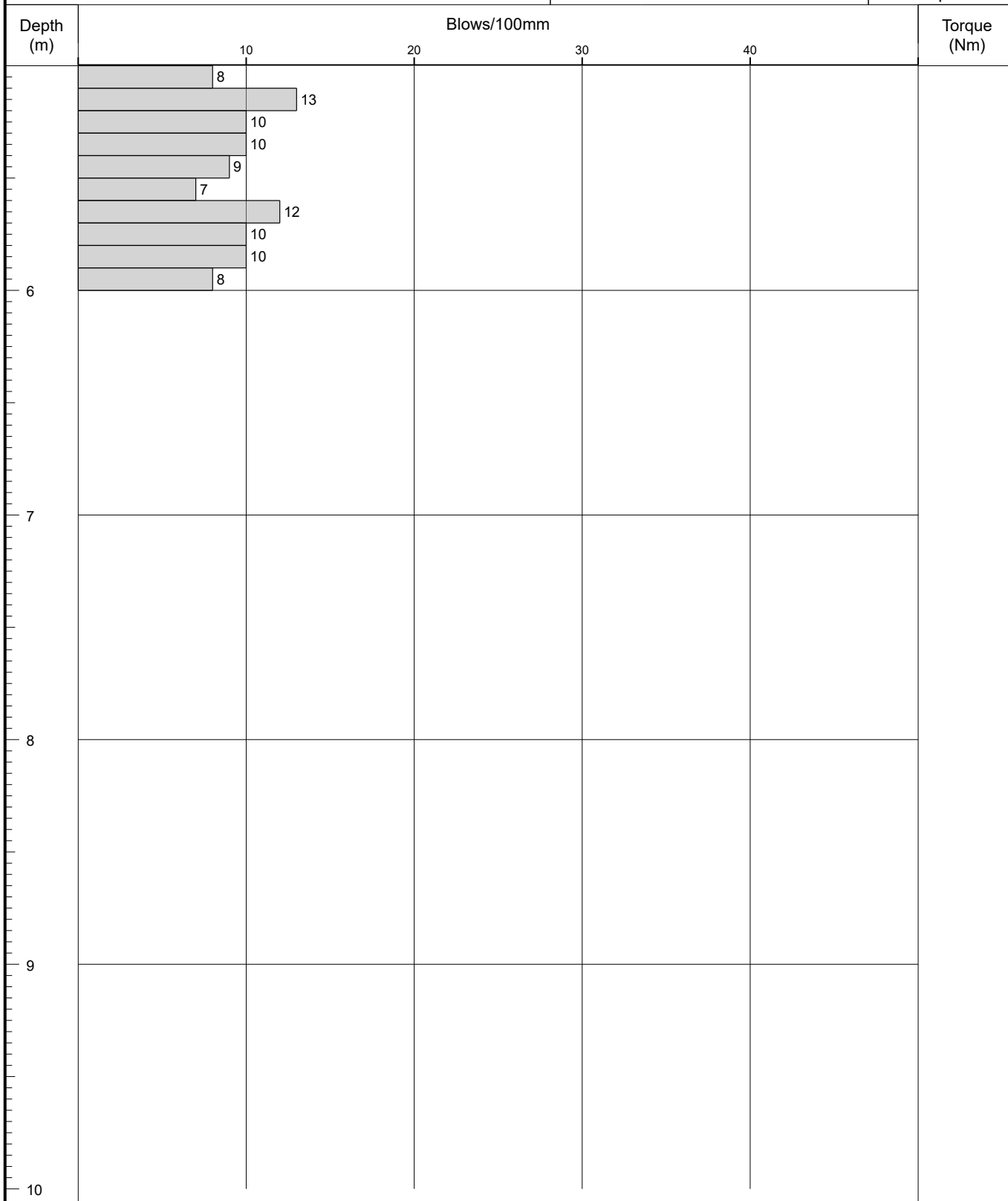
Location: Wythenshawe

Level: 32.77

Scale
1:25

Client: Cushman and Wakefield

Dates: 14/05/2020 -

Logged By
J Aspinall

Remarks

1. Complete.

Fall Height

Hammer Wt

Probe Type

Cone Base Diameter

Final Depth 6.00

Log Scale 1:25





Probe Log

Borehole No.

SHDP111

Sheet 1 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382205.00 - 390271.00

Hole Type
DP

Location: Wythenshawe

Level: 32.52

Scale
1:25

Client: Cushman and Wakefield

Dates: 14/05/2020 -

Logged By
J Aspinall

Depth (m)	Blows/100mm				Torque (Nm)
	10	20	30	40	
1	2				
	3				
	2				
	2				
	2				
	4				
	7				
	8				
	8				
	8				
	8				
	9				
	9				
	8				
	12				
2	14				
	12				
	10				
	9				
	9				
	7				
	5				
	6				
	7				
	7				
	4				
	2				
	0				
	1				
	1				
3	2				
	4				
	4				
	3				
	2				
	2				
	3				
	2				
	3				
	3				
	3				
	2				
	2				
	4				
	4				
4	7				
	8				
	8				
	6				
	7				
	7				
	2				
	2				
	4				
	4				
	7				
	8				
	8				
	6				
	7				
5	7				

Remarks

1. Complete.

Fall Height

Hammer Wt

Probe Type

Cone Base Diameter

Final Depth 6.00

Log Scale 1:25





Probe Log

Borehole No.

SHDP111

Sheet 2 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382205.00 - 390271.00

Hole Type
DP

Location: Wythenshawe

Level: 32.52

Scale
1:25

Client: Cushman and Wakefield

Dates: 14/05/2020 -

Logged By
J Aspinall

Depth (m)	Blows/100mm				Torque (Nm)
	10	20	30	40	
	8				
	9				
	9				
	12				
	9				
	11				
	8				
	12				
	11				
6	11				
7					
8					
9					
10					

Remarks

1. Complete.

Fall Height

Cone Base Diameter

Hammer Wt

Final Depth 6.00

Probe Type

Log Scale 1:25





Probe Log

Borehole No.

SHDP112

Sheet 1 of 1

Project Name: Northenden College

Project No.
13969

Co-ords: 382111.00 - 390243.00

Hole Type
DP

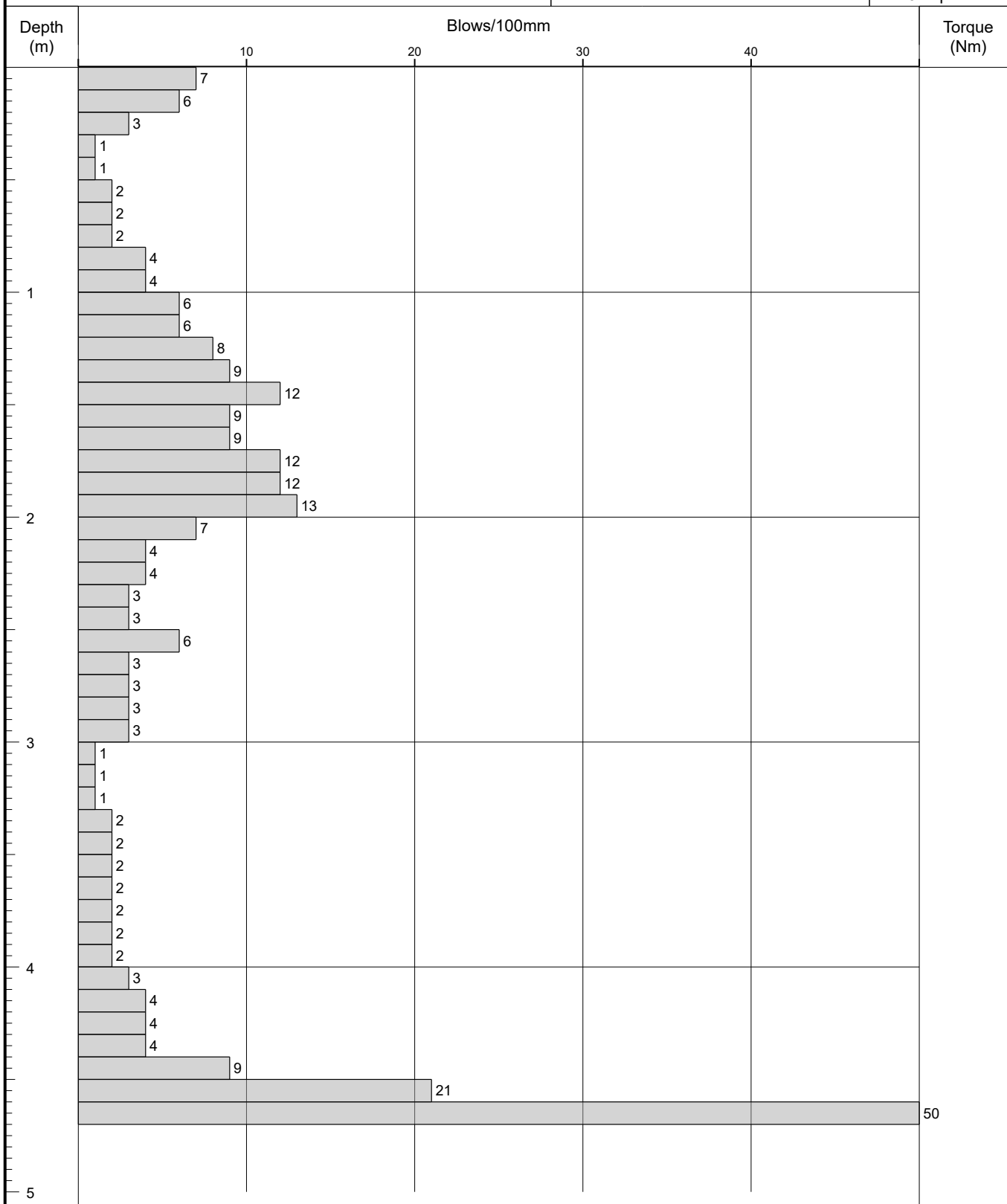
Location: Wythenshawe

Level: 32.63

Scale
1:25

Client: Cushman and Wakefield

Dates: 14/05/2020 -

Logged By
J Aspinall

Remarks

1. Refused.

Fall Height

Cone Base Diameter

Hammer Wt

Final Depth 4.68

Probe Type

Log Scale 1:25





Probe Log

Borehole No.

SHDP113

Sheet 1 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382187.00 - 390181.00

Hole Type
DP

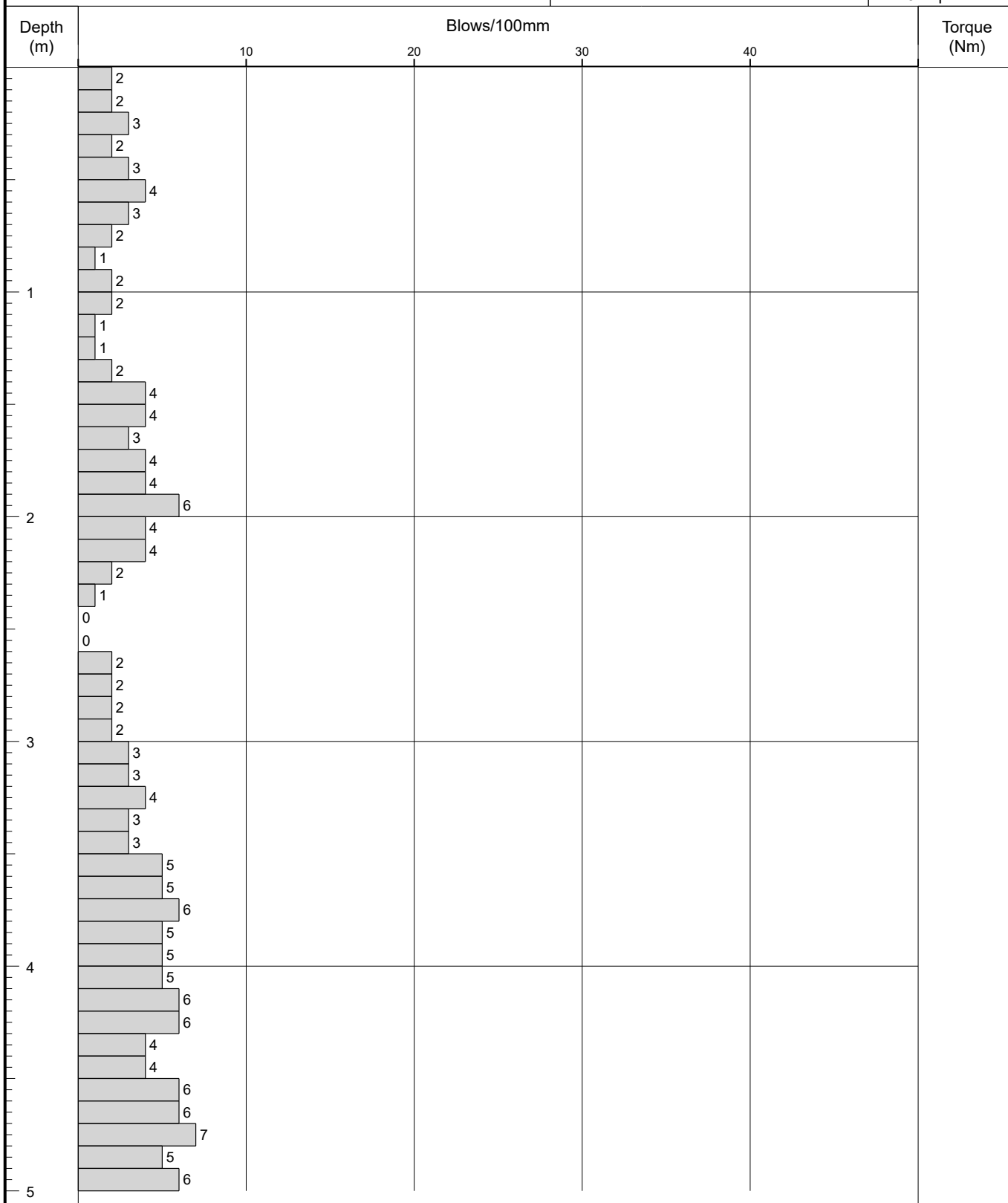
Location: Wythenshawe

Level: 32.77

Scale
1:25

Client: Cushman and Wakefield

Dates: 14/05/2020 -

Logged By
J Aspinall

Remarks

1. Complete.

Fall Height

Hammer Wt

Probe Type

Cone Base Diameter

Final Depth 6.00

Log Scale 1:25





Probe Log

Borehole No.

SHDP113

Sheet 2 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382187.00 - 390181.00

Hole Type
DP

Location: Wythenshawe

Level: 32.77

Scale
1:25

Client: Cushman and Wakefield

Dates: 14/05/2020 -

Logged By
J Aspinall

Depth (m)	Blows/100mm				Torque (Nm)
	10	20	30	40	
	6				
	6				
	6				
	9				
	7				
	7				
	5				
	8				
	8				
6	9				
7					
8					
9					
10					

Remarks

1. Complete.

Fall Height

Cone Base Diameter

Hammer Wt

Final Depth 6.00

Probe Type

Log Scale 1:25





Probe Log

Borehole No.

SHDP114

Sheet 1 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382145.00 - 390309.00

Hole Type
DP

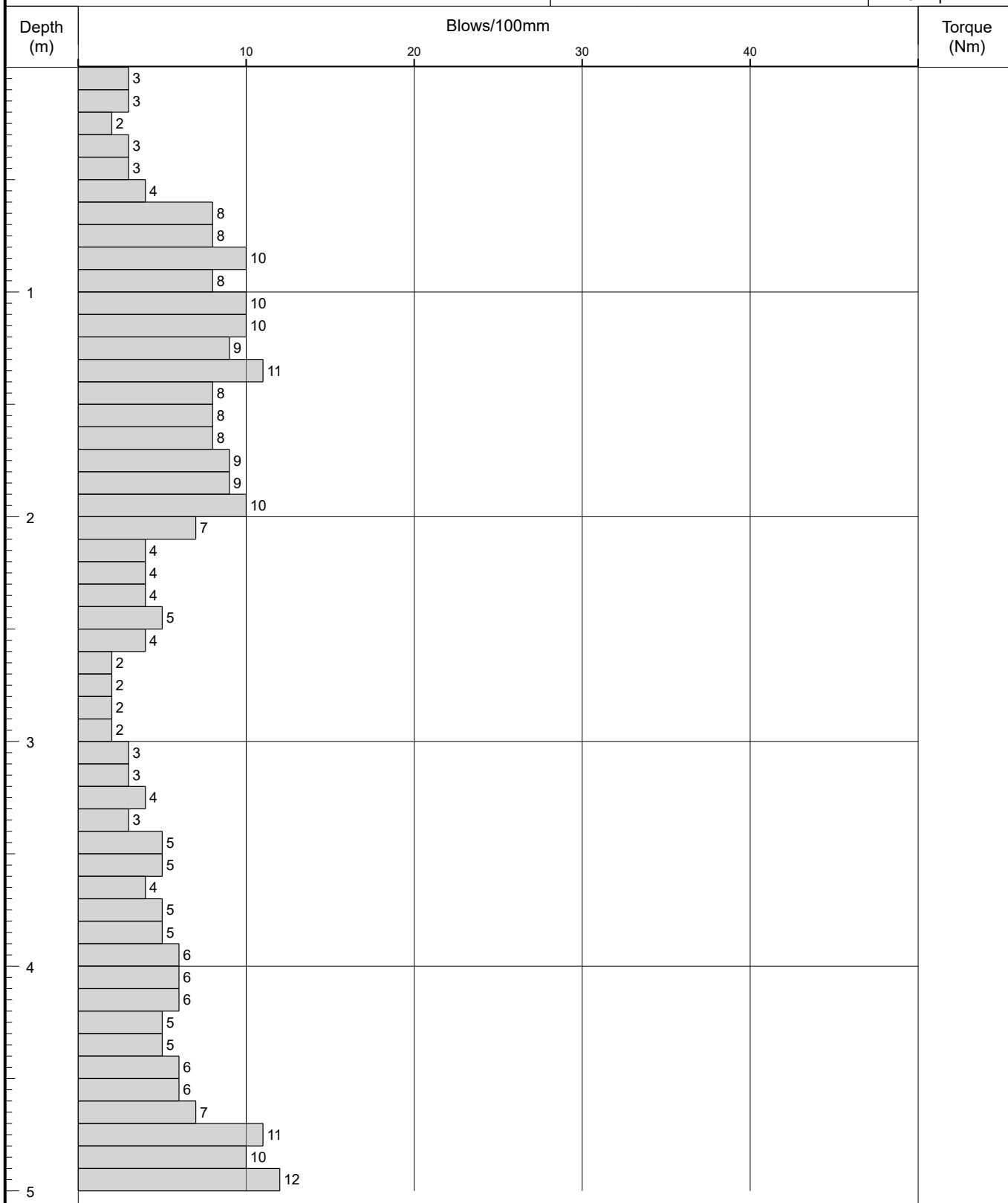
Location: Wythenshawe

Level: 32.51

Scale
1:25

Client: Cushman and Wakefield

Dates: 15/05/2020 -

Logged By
J Aspinall

Remarks

1. Complete.

Fall Height

Hammer Wt

Probe Type

Cone Base Diameter

Final Depth 6.00

Log Scale 1:25





Probe Log

Borehole No.

SHDP114

Sheet 2 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382145.00 - 390309.00

Hole Type
DP

Location: Wythenshawe

Level: 32.51

Scale
1:25

Client: Cushman and Wakefield

Dates: 15/05/2020 -

Logged By
J Aspinall

Depth (m)	Blows/100mm				Torque (Nm)
	10	20	30	40	
6	8				
	10				
	12				
	10				
	10				
	9				
	11				
	11				
	8				
	10				
7					
8					
9					
10					

Remarks 1. Complete.	Fall Height	Cone Base Diameter	
	Hammer Wt	Final Depth	6.00
	Probe Type	Log Scale	1:25





Probe Log

Borehole No.

SHDP115

Sheet 1 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382116.00 - 390321.00

Hole Type
DP

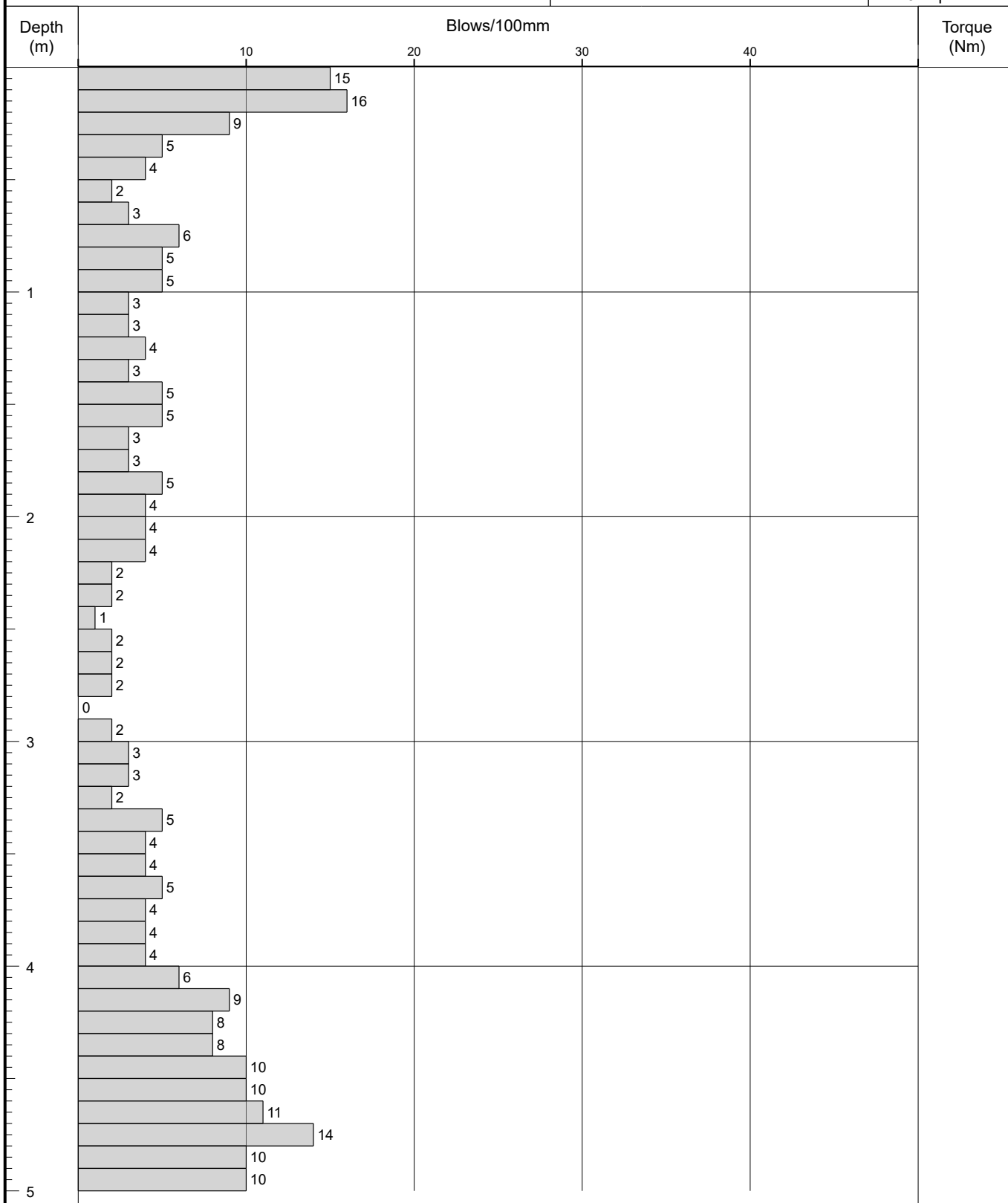
Location: Wythenshawe

Level: 31.89

Scale
1:25

Client: Cushman and Wakefield

Dates: 15/05/2020 -

Logged By
J Aspinall

Remarks

1. Complete.

Fall Height

Hammer Wt

Probe Type

Cone Base Diameter

Final Depth 6.00

Log Scale 1:25



Probe Log

Borehole No.
SHDP115

Sheet 2 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382116.00 - 390321.00

Hole Type
DP

Location: Wythenshawe

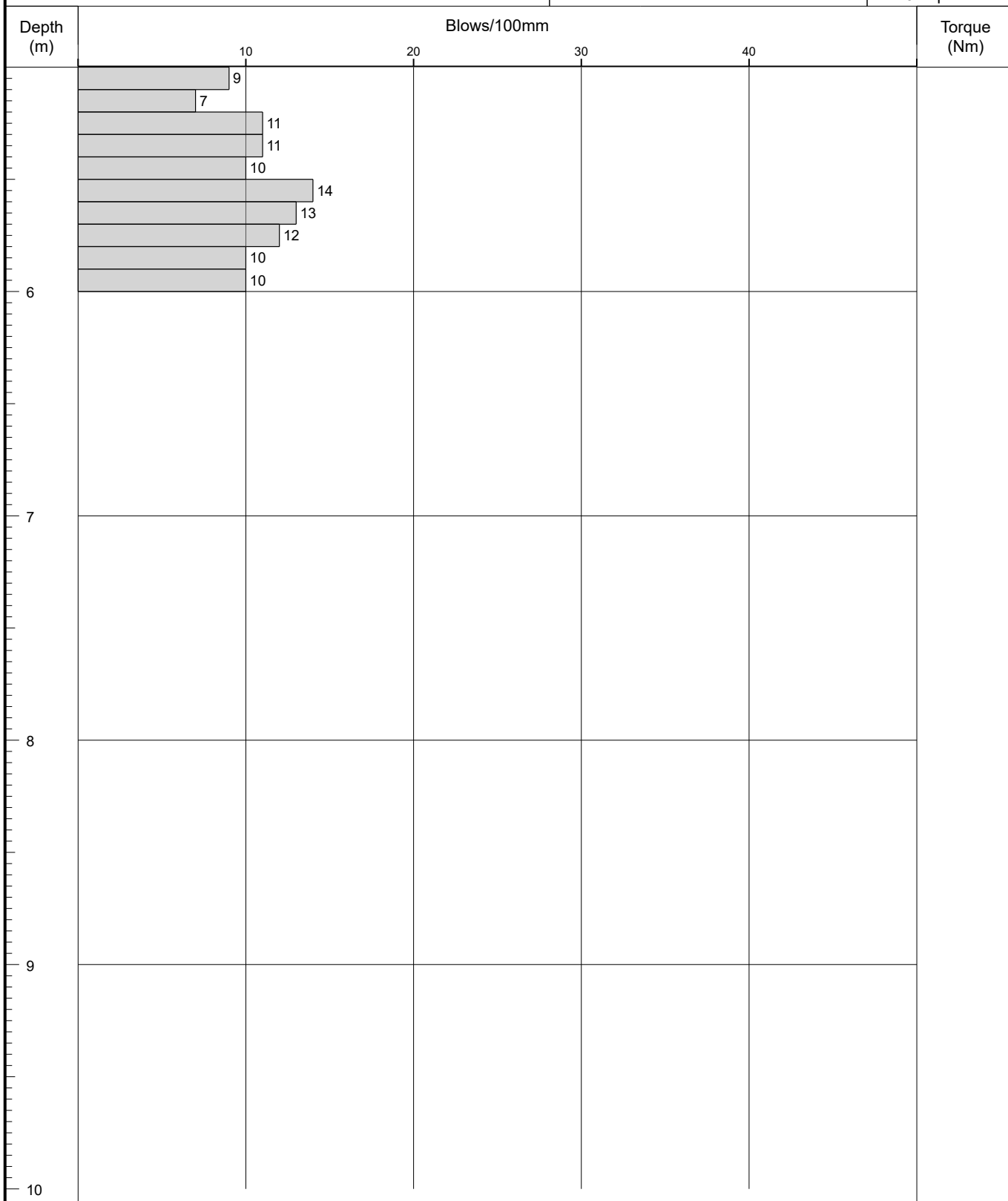
Level: 31.89

Scale
1:25

Client: Cushman and Wakefield

Dates: 15/05/2020 -

Logged By
J Aspinall



Remarks

1. Complete.

Fall Height

Hammer Wt

Probe Type

Cone Base Diameter

Final Depth 6.00

Log Scale 1:25



Probe Log

Borehole No.

SHDP116

Sheet 1 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382113.00 - 390289.00

Hole Type
DP

Location: Wythenshawe

Level: 33.14

Scale
1:25

Client: Cushman and Wakefield

Dates: 15/05/2020 -

Logged By
J Aspinall

Depth (m)	Blows/100mm				Torque (Nm)
	10	20	30	40	
1	3				
	4				
	4				
	3				
	3				
	2				
	2				
	2				
	2				
	2				
2	3				
	2				
	2				
	2				
	3				
	3				
	4				
	3				
	2				
	0				
3	3				
	4				
	6				
	7				
	8				
	7				
	7				
	8				
	8				
	7				
4	6				
	4				
	2				
	1				
	1				
	1				
	1				
	2				
	1				
	1				
5	2				
	2				
	3				
	3				
	3				
	2				
	2				
	4				
	4				
	4				

Remarks

1. Complete.

Fall Height

Hammer Wt

Probe Type

Cone Base Diameter

Final Depth 6.00

Log Scale 1:25





Probe Log

Borehole No.

SHDP116

Sheet 2 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382113.00 - 390289.00

Hole Type
DP

Location: Wythenshawe

Level: 33.14

Scale
1:25

Client: Cushman and Wakefield

Dates: 15/05/2020 -

Logged By
J Aspinall

Depth (m)	Blows/100mm				Torque (Nm)
	10	20	30	40	
	4				
	4				
	6				
	4				
	6				
	6				
	7				
	6				
	6				
6	8				
7					
8					
9					
10					

Remarks

1. Complete.

Fall Height

Hammer Wt

Probe Type

Cone Base Diameter

Final Depth 6.00

Log Scale 1:25





Probe Log

Borehole No.

SHDP117

Sheet 1 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382036.00 - 390279.00

Hole Type
DP

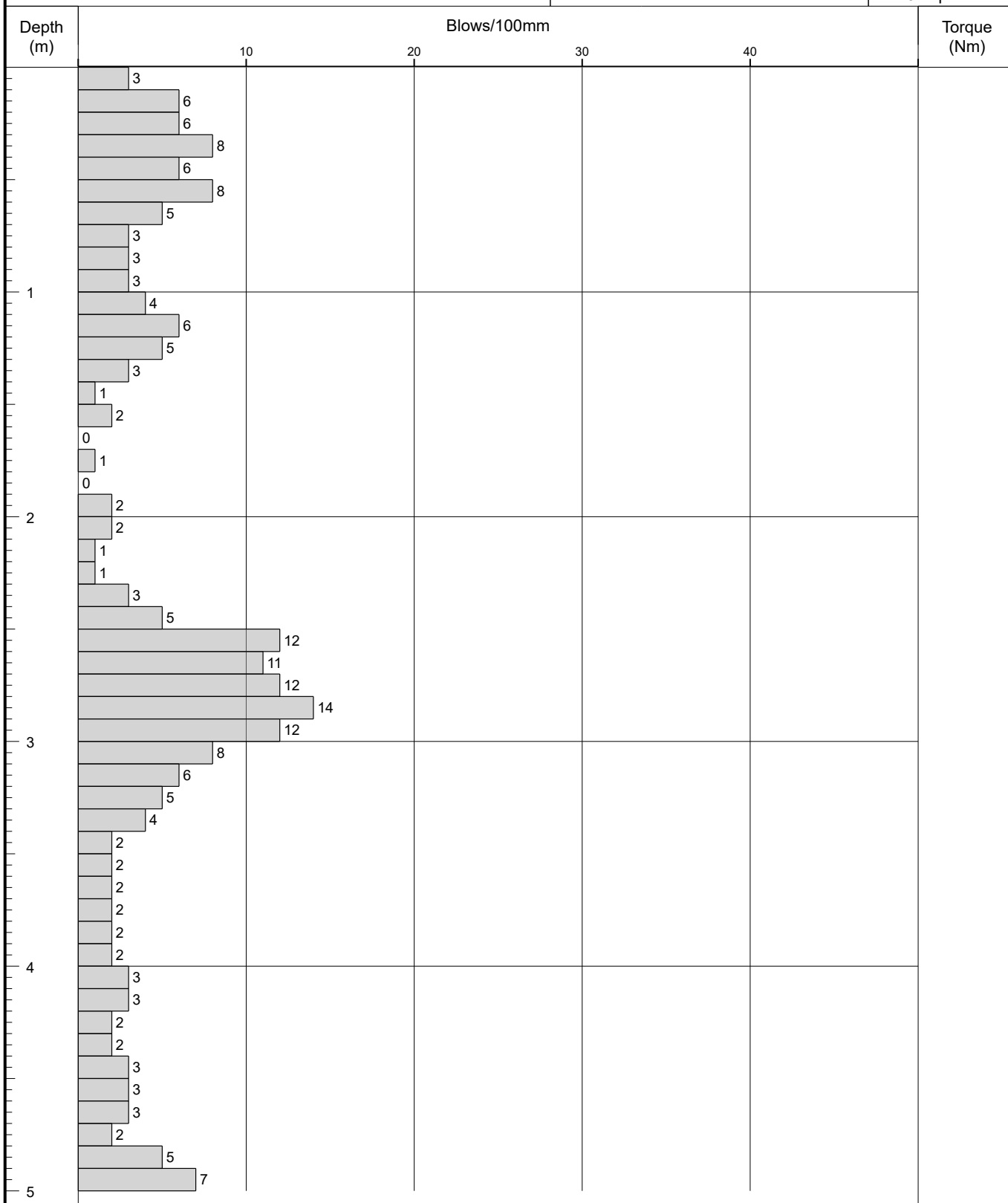
Location: Wythenshawe

Level: 33.57

Scale
1:25

Client: Cushman and Wakefield

Dates: 15/05/2020 -

Logged By
J Aspinall

Remarks

1. Complete.

Fall Height

Hammer Wt

Probe Type

Cone Base Diameter

Final Depth 6.00

Log Scale 1:25





Probe Log

Borehole No.

SHDP117

Sheet 2 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382036.00 - 390279.00

Hole Type
DP

Location: Wythenshawe

Level: 33.57

Scale
1:25

Client: Cushman and Wakefield

Dates: 15/05/2020 -

Logged By
J Aspinall

Depth (m)	Blows/100mm				Torque (Nm)
	10	20	30	40	
	5				
	7				
	7				
	6				
	5				
	5				
	5				
	8				
	8				
6	6				
7					
8					
9					
10					

Remarks

1. Complete.

Fall Height

Cone Base Diameter

Hammer Wt

Final Depth 6.00

Probe Type

Log Scale 1:25





Probe Log

Borehole No.

SHDP118

Sheet 1 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382019.00 - 390331.00

Hole Type
DP

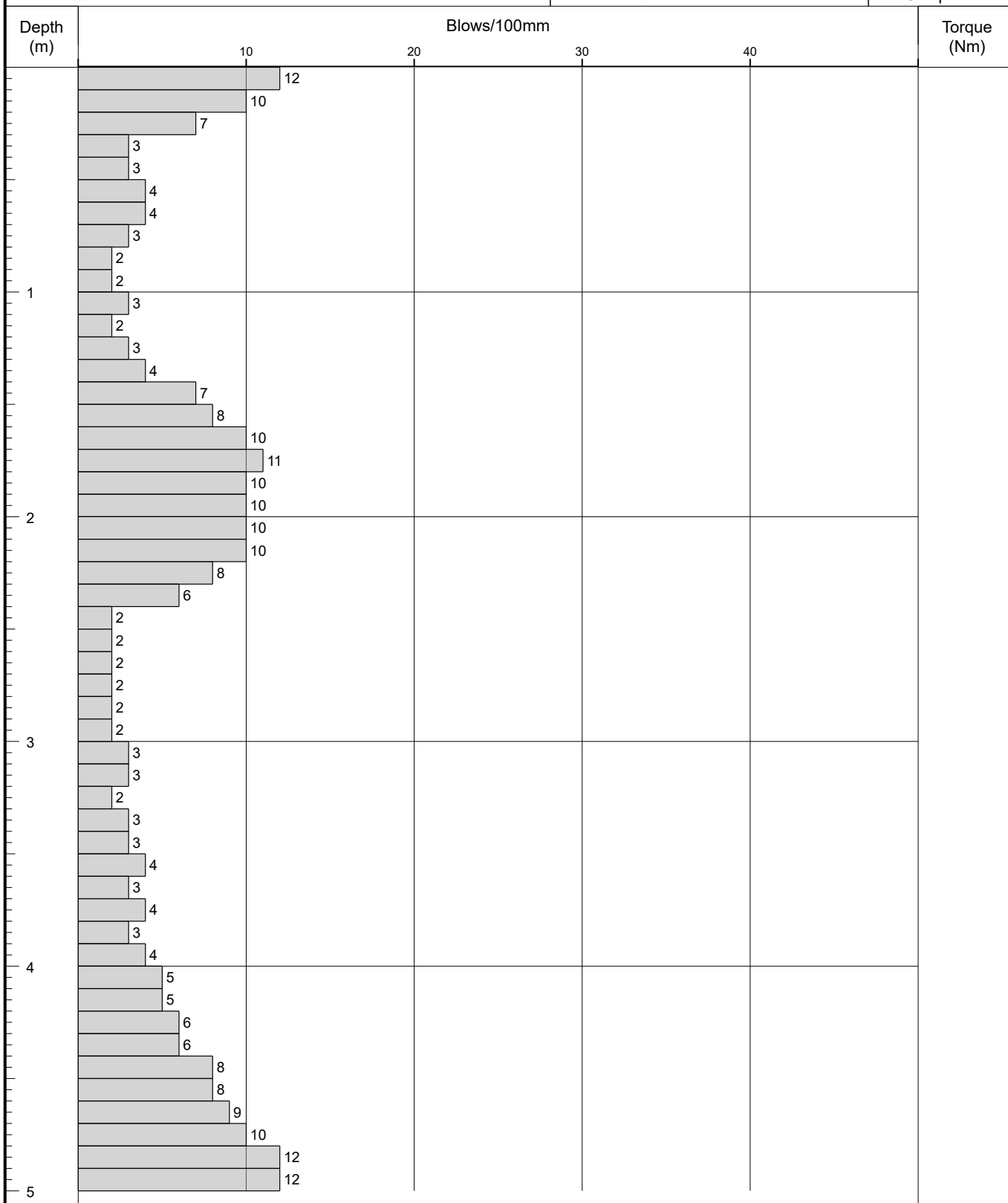
Location: Wythenshawe

Level: 32.06

Scale
1:25

Client: Cushman and Wakefield

Dates: 15/05/2020 -

Logged By
J Aspinall

Remarks

1. Complete.

Fall Height

Hammer Wt

Probe Type

Cone Base Diameter

Final Depth 6.00

Log Scale 1:25





Probe Log

Borehole No.

SHDP118

Sheet 2 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382019.00 - 390331.00

Hole Type
DP

Location: Wythenshawe

Level: 32.06

Scale
1:25

Client: Cushman and Wakefield

Dates: 15/05/2020 -

Logged By
J Aspinall

Depth (m)	Blows/100mm				Torque (Nm)
	10	20	30	40	
	8				
	8				
	9				
	7				
	10				
	10				
	9				
	12				
	11				
6	9				
7					
8					
9					
10					

Remarks

1. Complete.

Fall Height

Cone Base Diameter

Hammer Wt

Final Depth 6.00

Probe Type

Log Scale 1:25





Probe Log

Borehole No.

SHDP119

Sheet 1 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382012.00 - 390376.00

Hole Type
DP

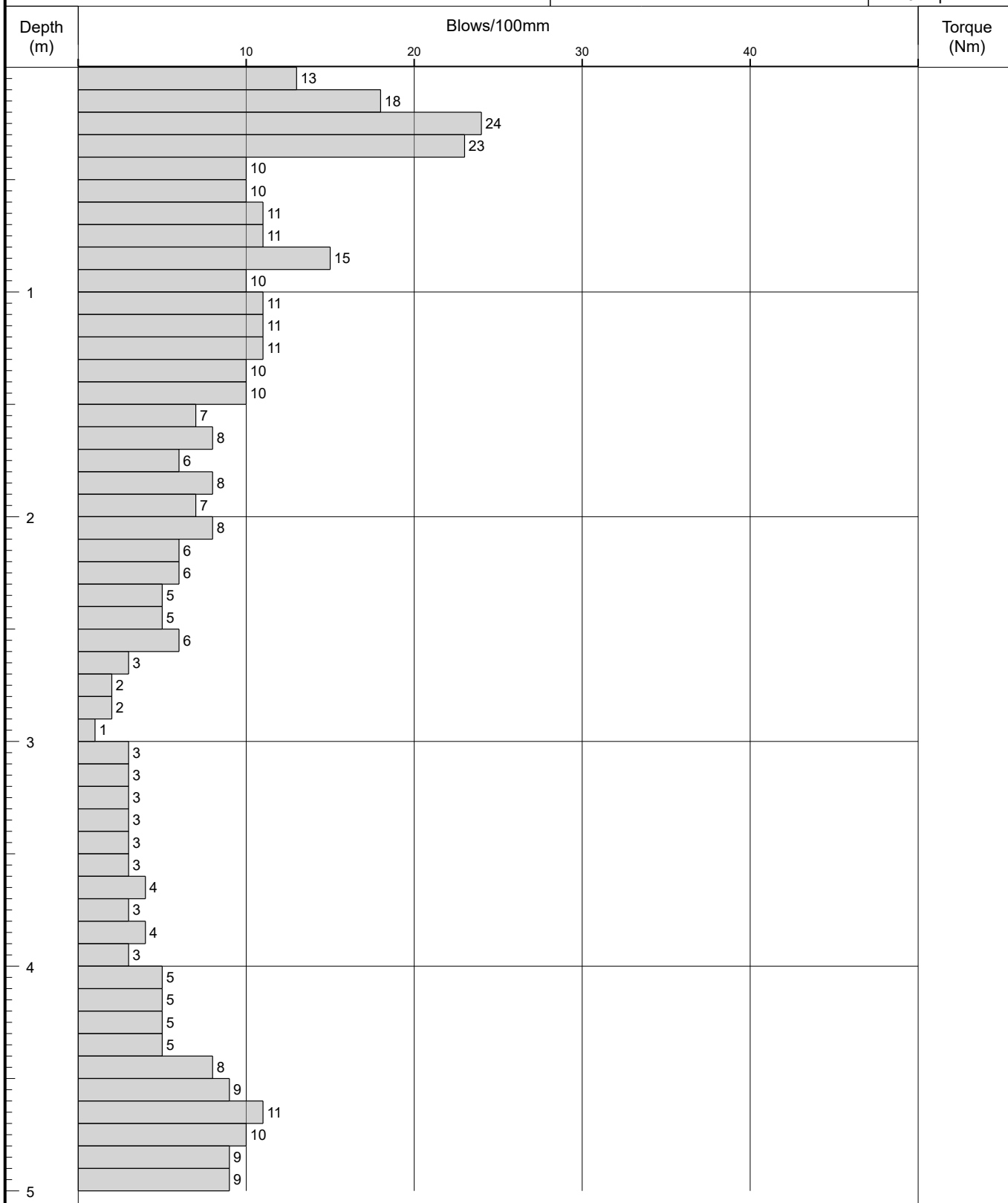
Location: Wythenshawe

Level: 32.39

Scale
1:25

Client: Cushman and Wakefield

Dates: 15/05/2020 -

Logged By
J Aspinall

Remarks

1. Complete.

Fall Height

Hammer Wt

Probe Type

Cone Base Diameter

Final Depth 6.00

Log Scale 1:25





Probe Log

Borehole No.

SHDP119

Sheet 2 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382012.00 - 390376.00

Hole Type
DP

Location: Wythenshawe

Level: 32.39

Scale
1:25

Client: Cushman and Wakefield

Dates: 15/05/2020 -

Logged By
J Aspinall

Depth (m)	Blows/100mm				Torque (Nm)
	10	20	30	40	
6					
7					
8					
9					
10					

Remarks

1. Complete.

Fall Height

Hammer Wt

Probe Type

Cone Base Diameter

Final Depth 6.00

Log Scale 1:25





Probe Log

Borehole No.

SHDP120

Sheet 1 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382046.00 - 390399.00

Hole Type
DP

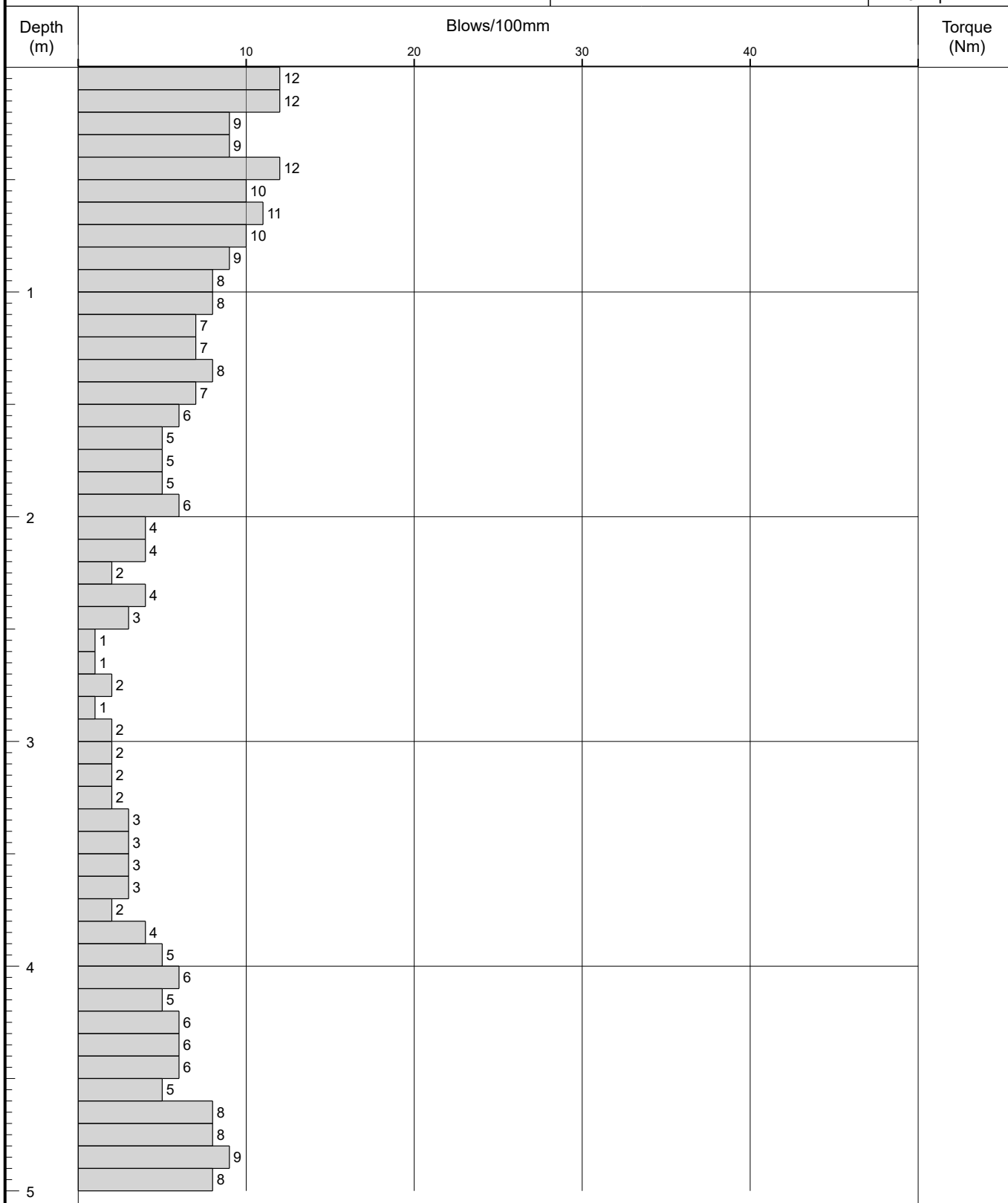
Location: Wythenshawe

Level: 32.02

Scale
1:25

Client: Cushman and Wakefield

Dates: 15/05/2020 -

Logged By
J Aspinall

Remarks

1. Complete.

Fall Height

Hammer Wt

Probe Type

Cone Base Diameter

Final Depth 6.00

Log Scale 1:25





Probe Log

Borehole No.

SHDP120

Sheet 2 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382046.00 - 390399.00

Hole Type
DP

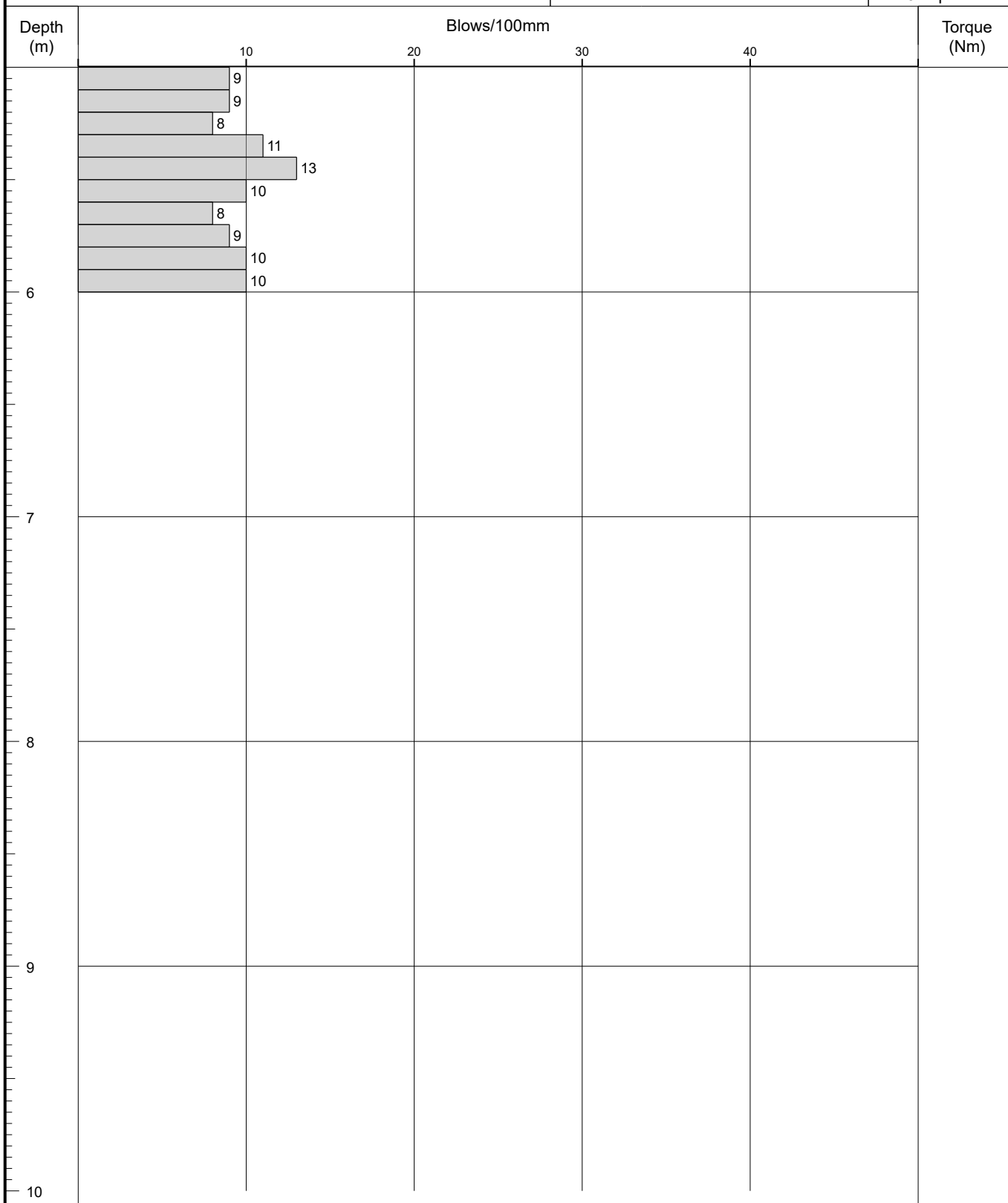
Location: Wythenshawe

Level: 32.02

Scale
1:25

Client: Cushman and Wakefield

Dates: 15/05/2020 -

Logged By
J Aspinall

Remarks

1. Complete.

Fall Height

Hammer Wt

Probe Type

Cone Base Diameter

Final Depth 6.00

Log Scale 1:25





Probe Log

Borehole No.

SHDP121

Sheet 1 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 381971.00 - 390414.00

Hole Type
DP

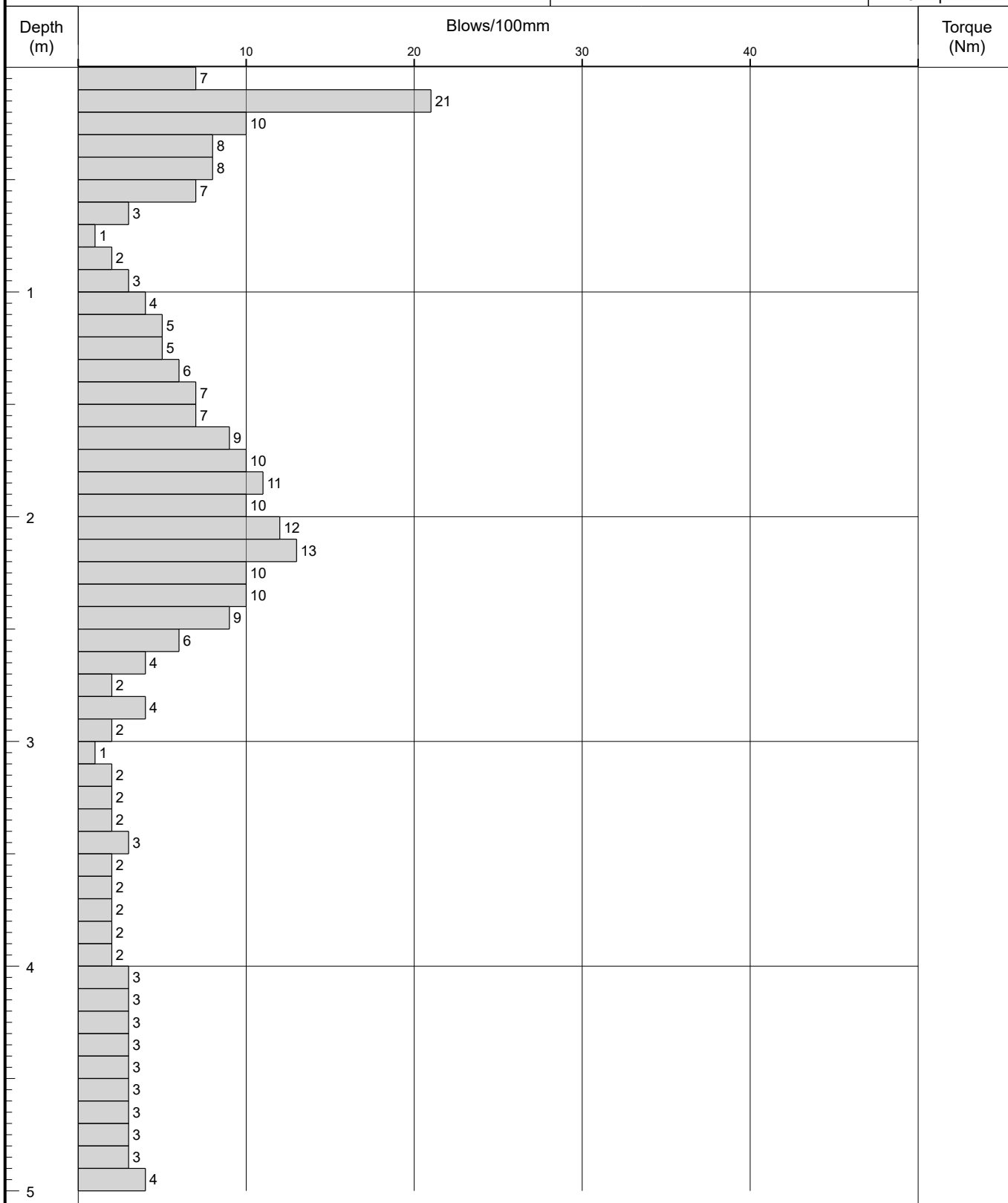
Location: Wythenshawe

Level: 32.39

Scale
1:25

Client: Cushman and Wakefield

Dates: 15/05/2020 -

Logged By
J Aspinall

Remarks

1. Complete.

Fall Height

Hammer Wt

Probe Type

Cone Base Diameter

Final Depth 6.00

Log Scale 1:25





Probe Log

Borehole No.
SHDP122

Sheet 1 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382014.00 - 390430.00

Hole Type
DP

Location: Wythenshawe

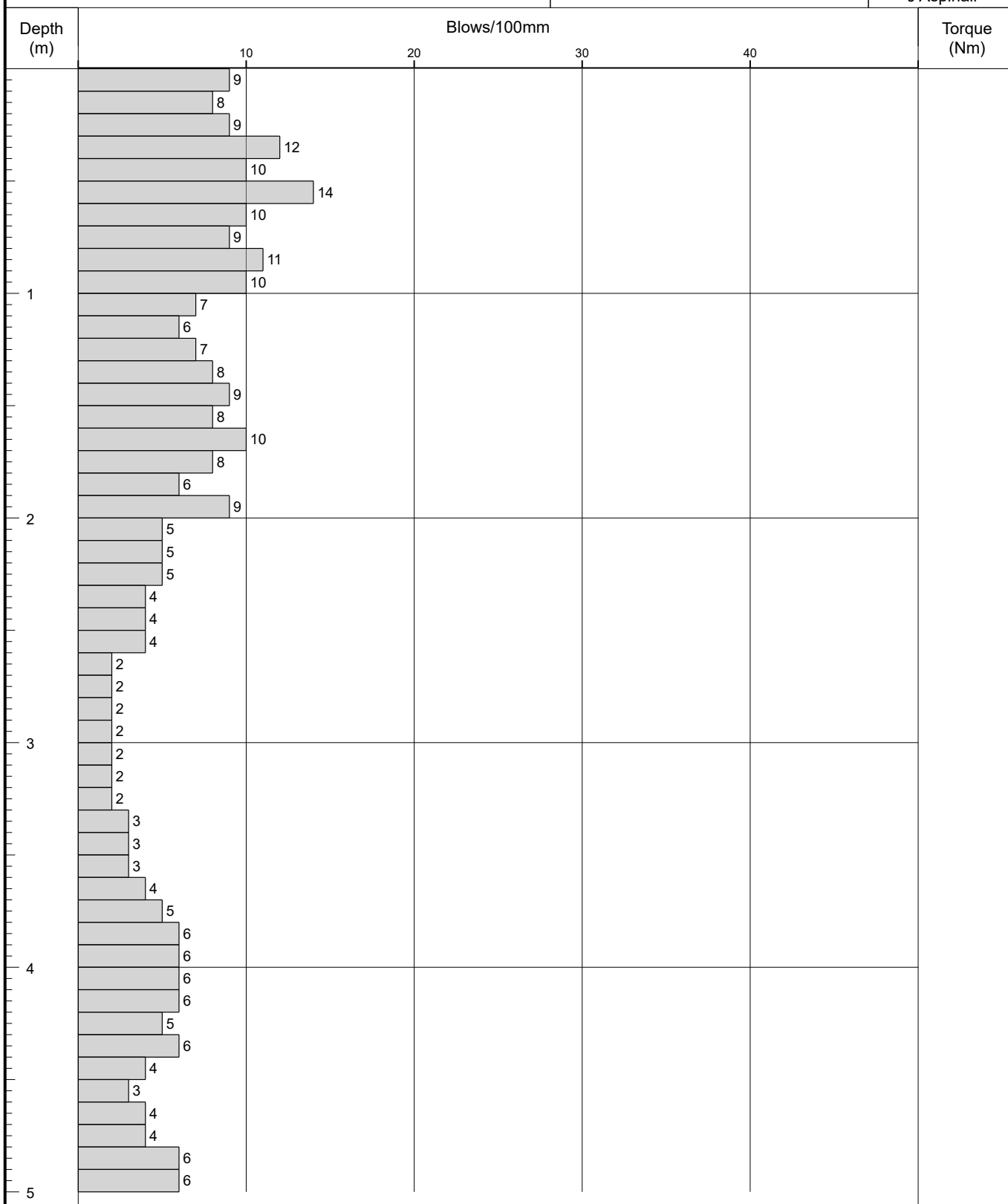
Level: 32.16

Scale
1:25

Client: Cushman and Wakefield

Dates: 15/05/2020 -

Logged By
J Aspinall



Remarks

1. Complete.

Fall Height

Hammer Wt

Probe Type

Cone Base Diameter

Final Depth 6.00

Log Scale 1:25





Probe Log

Borehole No.
SHDP122

Sheet 2 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382014.00 - 390430.00

Hole Type
DP

Location: Wythenshawe

Level: 32.16

Scale
1:25

Client: Cushman and Wakefield

Dates: 15/05/2020 -

Logged By
J Aspinall

Depth (m)	Blows/100mm				Torque (Nm)
	10	20	30	40	
6	6				
	8				
	8				
	9				
	6				
	8				
	8				
	9				
	10				
	10				
7					
8					
9					
10					

Remarks

1. Complete.

Fall Height

Hammer Wt

Probe Type

Cone Base Diameter

Final Depth 6.00

Log Scale 1:25





Probe Log

Borehole No.

SHDP123

Sheet 1 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382063.00 - 390428.00

Hole Type
DP

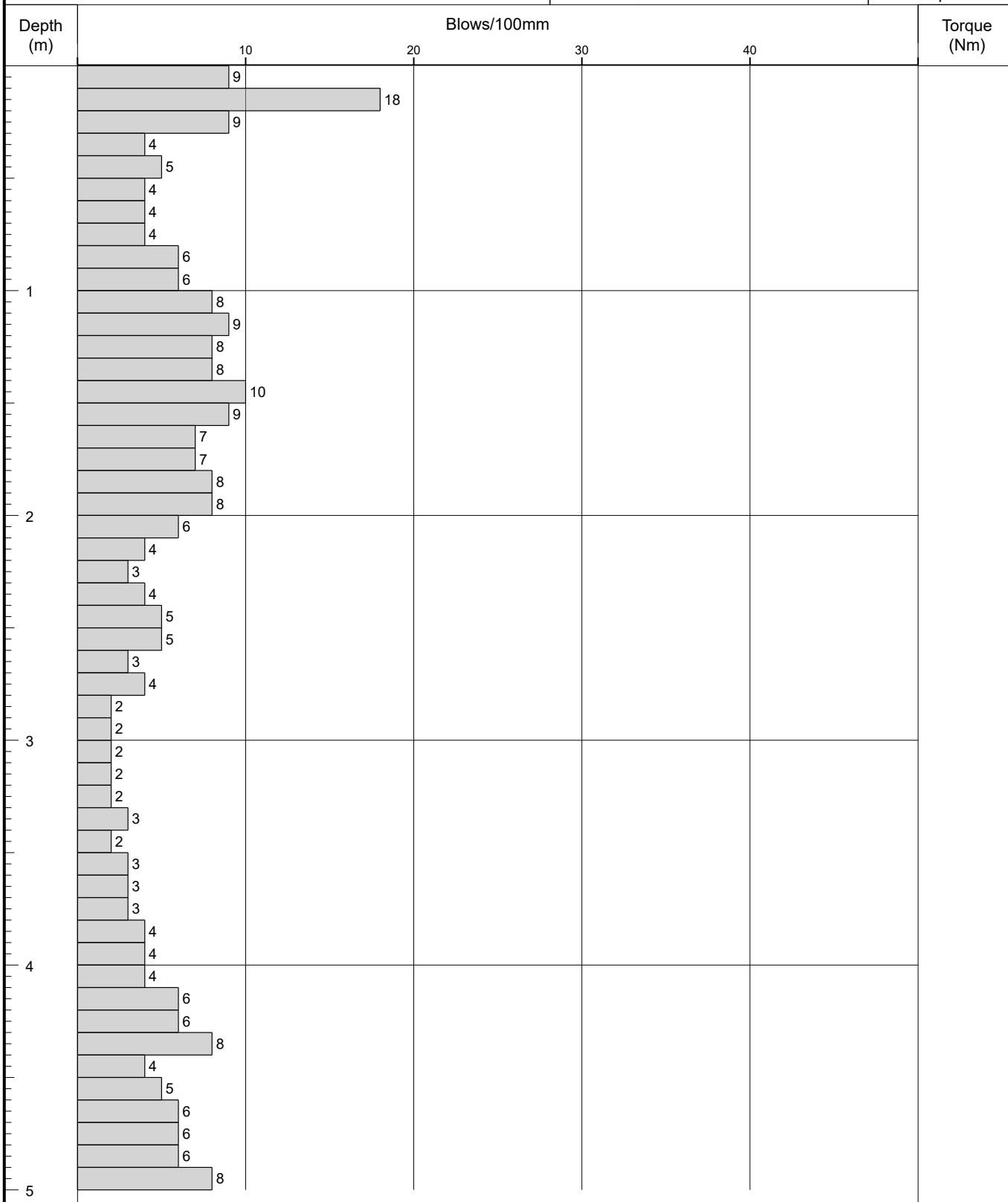
Location: Wythenshawe

Level: 32.34

Scale
1:25

Client: Cushman and Wakefield

Dates: 15/05/2020 -

Logged By
J Aspinall

Remarks

1. Complete.

Fall Height

Hammer Wt

Probe Type

Cone Base Diameter

Final Depth 6.00

Log Scale 1:25





Probe Log

Borehole No.
SHDP123

Sheet 2 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382063.00 - 390428.00

Hole Type
DP

Location: Wythenshawe

Level: 32.34

Scale
1:25

Client: Cushman and Wakefield

Dates: 15/05/2020 -

Logged By
J Aspinall

Depth (m)	Blows/100mm				Torque (Nm)
	10	20	30	40	
	8				
	8				
	6				
	7				
	9				
	9				
	11				
	10				
	10				
6	9				
7					
8					
9					
10					

Remarks

1. Complete.

Fall Height

Cone Base Diameter

Hammer Wt

Final Depth 6.00

Probe Type

Log Scale 1:25





Probe Log

Borehole No.
SHDP124

Sheet 1 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382092.00 - 390425.00

Hole Type
DP

Location: Wythenshawe

Level: 32.39

Scale
1:25

Client: Cushman and Wakefield

Dates: 15/05/2020 -

Logged By
J Aspinall

Depth (m)	Blows/100mm				Torque (Nm)
	10	20	30	40	
1	2 3 3 2 3 3 2 2 3 3 4				
2	5 5 5 7 6 8 7 7 6 6 6 6 6 4 3 3				
3	1 2 2 3 2 1 2 2 2 2 2 2 2 2				
4	3 3 3 5 5 4 4 4 5 7				
5					

Remarks

1. Complete.

Fall Height

Hammer Wt

Probe Type

Cone Base Diameter

Final Depth 6.00

Log Scale 1:25





Probe Log

Borehole No.

SHDP124

Sheet 2 of 2

Project Name: Northenden College

Project No.
13969

Co-ords: 382092.00 - 390425.00

Hole Type
DP

Location: Wythenshawe

Level: 32.39

Scale
1:25

Client: Cushman and Wakefield

Dates: 15/05/2020 -

Logged By
J Aspinall

Depth (m)	Blows/100mm				Torque (Nm)
	10	20	30	40	
	7				
	5				
	4				
	4				
	5				
	6				
	6				
	7				
	7				
6	9				
7					
8					
9					
10					

Remarks

1. Complete.

Fall Height

Cone Base Diameter

Hammer Wt

Final Depth 6.00

Probe Type

Log Scale 1:25



APPENDIX VI

CHEMICAL TESTING

RESULTS

**Rebecca Hodnett**

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Analytical Report Number : 20-11060

Project / Site name:	Northenden College	Samples received on:	22/05/2020
Your job number:	13-969	Sample instructed/ Analysis started on:	22/05/2020
Your order number:	13969 EF F	Analysis completed by:	01/06/2020
Report Issue Number:	1	Report issued on:	01/06/2020
Samples Analysed:	3 leachate samples - 10 soil samples		

Signed: Karolina Marek

Karolina Marek
PL Head of Reporting Team

For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 20-11060

Project / Site name: Northenden College

Your Order No: 13969 EF F

Lab Sample Number				1517845	1517846	1517847	1517848	1517849
Sample Reference				TP110	TP122	TP123	TP125	TP128
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	1.20	0.30	1.00	0.80
Date Sampled				19/05/2020	19/05/2020	20/05/2020	20/05/2020	20/05/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	11	6.9	13	9.8	12
Total mass of sample received	kg	0.001	NONE	0.60	0.60	0.60	0.60	0.60

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	-	Not-detected	-	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	-	-	-	6.9	7.7
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	< 1
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	-	-	120	360
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	-	-	20	49
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	-	-	0.010	0.024
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	10.1	24.3
Sulphide	mg/kg	1	MCERTS	-	-	-	< 1.0	3.3
Total Sulphur	mg/kg	50	MCERTS	-	-	-	81	260
Total Organic Carbon (TOC)	%	0.1	MCERTS	-	0.4	-	0.2	1.7

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	-
Acenaphthene	mg/kg	0.05	MCERTS	0.36	-	< 0.05	-	-
Fluorene	mg/kg	0.05	MCERTS	0.47	-	< 0.05	-	-
Phenanthrene	mg/kg	0.05	MCERTS	4.1	-	0.51	-	-
Anthracene	mg/kg	0.05	MCERTS	0.67	-	< 0.05	-	-
Fluoranthene	mg/kg	0.05	MCERTS	5.4	-	0.89	-	-
Pyrene	mg/kg	0.05	MCERTS	5.5	-	1.0	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	2.9	-	0.59	-	-
Chrysene	mg/kg	0.05	MCERTS	2.7	-	0.59	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	2.5	-	0.63	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	1.2	-	0.31	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	2.0	-	0.57	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.99	-	0.26	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.35	-	< 0.05	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.3	-	0.35	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	30.4	-	5.71	-	-
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Analytical Report Number: 20-11060

Project / Site name: Northenden College

Your Order No: 13969 EF F

Lab Sample Number	1517845	1517846	1517847	1517848	1517849
Sample Reference	TP110	TP122	TP123	TP125	TP128
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.20	1.20	0.30	1.00	0.80
Date Sampled	19/05/2020	19/05/2020	20/05/2020	20/05/2020	20/05/2020
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	24	8.7	14	1.1	14
Barium (aqua regia extractable)	mg/kg	1	MCERTS	140	26	79	-	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.1	0.53	0.79	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	0.7	0.3	0.9	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	18	11	15	8.9	18
Copper (aqua regia extractable)	mg/kg	1	MCERTS	45	5.5	35	6.7	37
Lead (aqua regia extractable)	mg/kg	1	MCERTS	140	7.4	85	6.7	110
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	1.0	< 0.3	0.8	< 0.3	0.8
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	19	13	16	8.3	14
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1.6	< 1.0	< 1.0	< 1.0	2.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	30	15	23	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	74	30	72	15	67

Petroleum Hydrocarbons

TPH (C5 - C6)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C6 - C8)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH (C12 - C16)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	5.7
TPH (C16 - C21)	mg/kg	1	MCERTS	15	< 1.0	16	< 1.0	27
TPH (C21 - C35)	mg/kg	1	MCERTS	33	< 1.0	37	< 1.0	57
TPH (C35 - C40)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH Total C5 - C40	mg/kg	10	MCERTS	49	< 10	55	< 10	92

Analytical Report Number: 20-11060

Project / Site name: Northenden College

Your Order No: 13969 EF F

Lab Sample Number				1517845	1517846	1517847	1517848	1517849
Sample Reference				TP110	TP122	TP123	TP125	TP128
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	1.20	0.30	1.00	0.80
Date Sampled				19/05/2020	19/05/2020	20/05/2020	20/05/2020	20/05/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

VOCs

Chloromethane	µg/kg	1	ISO 17025	-	< 1.0	-	< 1.0	< 1.0
Chloroethane	µg/kg	1	NONE	-	< 1.0	-	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	-	< 1.0	-	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	NONE	-	< 1.0	-	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	-	< 1.0	-	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	-	< 1.0	-	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	< 1.0	-	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	< 1.0	-	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0	-	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0	-	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	< 1.0	-	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	-	< 1.0	-	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	NONE	-	< 1.0	-	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	< 1.0	-	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	< 1.0
Tribromomethane	µg/kg	1	NONE	-	< 1.0	-	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	< 1.0	-	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	< 1.0	-	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	< 1.0
Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	< 1.0	-	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	< 1.0	-	< 1.0	< 1.0

Analytical Report Number: 20-11060

Project / Site name: Northenden College

Your Order No: 13969 EF F

Lab Sample Number				1517845	1517846	1517847	1517848	1517849
Sample Reference				TP110	TP122	TP123	TP125	TP128
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	1.20	0.30	1.00	0.80
Date Sampled				19/05/2020	19/05/2020	20/05/2020	20/05/2020	20/05/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

SVOCs

Aniline	mg/kg	0.1	NONE	-	< 0.1	-	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	-	< 0.2	-	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	-	< 0.1	-	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	< 0.2	-	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	< 0.2	-	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	< 0.1	-	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	< 0.2	-	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	< 0.1	-	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	-	< 0.3	-	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	-	< 0.05	-	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	-	< 0.3	-	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	-	< 0.2	-	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	-	< 0.2	-	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	-	< 0.3	-	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	< 0.3	-	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	< 0.3	-	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	< 0.3	-	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	-	< 0.05	-	< 0.05	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	< 0.3	-	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	-	< 0.1	-	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	< 0.1	-	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	< 0.1	-	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	< 0.1	-	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	< 0.2	-	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	-	< 0.1	-	< 0.1	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	< 0.1	-	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	-	< 0.1	-	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	< 0.1	-	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	-	< 0.05	-	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	< 0.05	-	< 0.05	0.30
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	< 0.2	-	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	-	< 0.2	-	< 0.2	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	< 0.3	-	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	-	< 0.2	-	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	-	< 0.2	-	< 0.2	< 0.2
Fluorene	mg/kg	0.05	MCERTS	-	< 0.05	-	< 0.05	0.26
Azobenzene	mg/kg	0.3	MCERTS	-	< 0.3	-	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	< 0.2	-	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	< 0.3	-	< 0.3	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	-	< 0.05	-	< 0.05	2.8
Anthracene	mg/kg	0.05	MCERTS	-	< 0.05	-	< 0.05	0.53
Carbazole	mg/kg	0.3	MCERTS	-	< 0.3	-	< 0.3	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	< 0.2	-	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	-	< 0.3	-	< 0.3	< 0.3
Fluoranthene	mg/kg	0.05	MCERTS	-	< 0.05	-	< 0.05	4.2
Pyrene	mg/kg	0.05	MCERTS	-	< 0.05	-	< 0.05	4.4
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	< 0.3	-	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	< 0.05	-	< 0.05	2.4
Chrysene	mg/kg	0.05	MCERTS	-	< 0.05	-	< 0.05	2.0
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	< 0.05	-	< 0.05	2.1
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	< 0.05	-	< 0.05	1.0
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	< 0.05	-	< 0.05	1.9
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	< 0.05	-	< 0.05	0.91
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	< 0.05	-	< 0.05	0.28
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	< 0.05	-	< 0.05	1.1

Analytical Report Number: 20-11060

Project / Site name: Northenden College

Your Order No: 13969 EF F

Lab Sample Number				1517850	1517851	1517852	1517853	1517854
Sample Reference				TP129	TP133	TP135	WS126	WS127
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.50	1.40	0.10	0.90
Date Sampled				20/05/2020	20/05/2020	21/05/2020	20/05/2020	21/05/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	10	9.3	5.4	8.6	1.1
Total mass of sample received	kg	0.001	NONE	0.60	0.60	0.60	0.60	0.60

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	-	Not-detected	-
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	-	7.8	-	-	-
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	< 1
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	990	-	-	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	690	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	0.35	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	347	-	-	-
Sulphide	mg/kg	1	MCERTS	-	24	-	-	-
Total Sulphur	mg/kg	50	MCERTS	-	700	-	-	-
Total Organic Carbon (TOC)	%	0.1	MCERTS	-	-	-	-	< 0.1

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-	< 1.0	-	-	-
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	-
Acenaphthene	mg/kg	0.05	MCERTS	0.27	< 0.05	< 0.05	< 0.05	-
Fluorene	mg/kg	0.05	MCERTS	0.19	< 0.05	< 0.05	< 0.05	-
Phenanthrene	mg/kg	0.05	MCERTS	2.8	0.94	< 0.05	0.54	-
Anthracene	mg/kg	0.05	MCERTS	0.50	0.16	< 0.05	< 0.05	-
Fluoranthene	mg/kg	0.05	MCERTS	4.8	1.3	< 0.05	1.1	-
Pyrene	mg/kg	0.05	MCERTS	4.8	1.3	< 0.05	1.2	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	2.7	0.72	< 0.05	0.70	-
Chrysene	mg/kg	0.05	MCERTS	2.4	0.64	< 0.05	0.66	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	2.5	0.63	< 0.05	0.58	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	1.3	0.31	< 0.05	0.37	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	2.2	0.50	< 0.05	0.59	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	1.1	0.26	< 0.05	0.28	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.31	< 0.05	< 0.05	< 0.05	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.2	0.33	< 0.05	0.31	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	27.0	7.06	< 0.80	6.37	-
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Analytical Report Number: 20-11060

Project / Site name: Northenden College

Your Order No: 13969 EF F

Lab Sample Number				1517850	1517851	1517852	1517853	1517854
Sample Reference				TP129	TP133	TP135	WS126	WS127
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.50	1.40	0.10	0.90
Date Sampled				20/05/2020	20/05/2020	21/05/2020	20/05/2020	21/05/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	13	9.2	2.2	10	2.2
Barium (aqua regia extractable)	mg/kg	1	MCERTS	180	-	7.5	62	7.5
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.73	-	0.12	0.45	0.18
Boron (water soluble)	mg/kg	0.2	MCERTS	0.6	-	0.3	0.5	0.3
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	19	13	5.4	13	5.5
Copper (aqua regia extractable)	mg/kg	1	MCERTS	43	18	1.8	22	2.9
Lead (aqua regia extractable)	mg/kg	1	MCERTS	130	41	4.2	59	3.6
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.9	0.5	< 0.3	0.5	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	15	11	4.1	11	6.1
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	2.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	22	-	9.4	18	7.5
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	94	72	20	44	15

Petroleum Hydrocarbons

TPH (C5 - C6)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C6 - C8)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH (C12 - C16)	mg/kg	4	MCERTS	5.8	< 4.0	< 4.0	< 4.0	< 4.0
TPH (C16 - C21)	mg/kg	1	MCERTS	25	15	< 1.0	9.4	< 1.0
TPH (C21 - C35)	mg/kg	1	MCERTS	47	50	< 1.0	30	< 1.0
TPH (C35 - C40)	mg/kg	10	MCERTS	< 10	12	< 10	< 10	< 10
TPH Total C5 - C40	mg/kg	10	MCERTS	79	79	< 10	42	< 10

Analytical Report Number: 20-11060

Project / Site name: Northenden College

Your Order No: 13969 EF F

Lab Sample Number				1517850	1517851	1517852	1517853	1517854
Sample Reference				TP129	TP133	TP135	WS126	WS127
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.50	1.40	0.10	0.90
Date Sampled				20/05/2020	20/05/2020	21/05/2020	20/05/2020	21/05/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Chloroethane	µg/kg	1	NONE	-	-	-	-	< 1.0
Bromomethane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Vinyl Chloride	µg/kg	1	NONE	-	-	-	-	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	-	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	-	-	-	-	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Trichloromethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	-	< 1.0
Benzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Trichloroethene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Dibromomethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Toluene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Tetrachloroethene	µg/kg	1	NONE	-	-	-	-	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Styrene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Tribromomethane	µg/kg	1	NONE	-	-	-	-	< 1.0
o-Xylene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Bromobenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0

Analytical Report Number: 20-11060

Project / Site name: Northenden College

Your Order No: 13969 EF F

Lab Sample Number				1517850	1517851	1517852	1517853	1517854
Sample Reference				TP129	TP133	TP135	WS126	WS127
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.50	1.40	0.10	0.90
Date Sampled				20/05/2020	20/05/2020	21/05/2020	20/05/2020	21/05/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
SVOCs								
Aniline	mg/kg	0.1	NONE	-	-	-	-	< 0.1
Phenol	mg/kg	0.2	ISO 17025	-	-	-	-	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	-	< 0.2
Isophorone	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	-	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	-	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	-	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	-	-	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Azobenzene	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Carbazole	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	-	-	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05



Analytical Report Number: 20-11060

Project / Site name: Northenden College

Your Order No: 13969 EF F

Lab Sample Number				1517855	1517856	1517857		
Sample Reference				TP124	TP132	TP136		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				0.30	0.50	0.50		
Date Sampled				20/05/2020	20/05/2020	21/05/2020		
Time Taken				None Supplied	None Supplied	None Supplied		
Analytical Parameter (Leachate Analysis)				Units	Limit of detection	Accreditation Status		

General Inorganics

pH	pH Units	N/A	ISO 17025	7.7	8.0	8.0		
Total Cyanide (Low Level 1 µg/l)	µg/l	1	ISO 17025	2.9	3.0	2.8		

Total Phenols

Total Phenols (monohydric)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
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Speciated PAHs

Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Indeno(1,2,3-cd)pyrene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01		
Dibenz(a,h)anthracene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01		
Benzo(ghi)perylene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01		

Total PAH

Total EPA-16 PAHs	µg/l	0.2	NONE	< 0.2	< 0.2	< 0.2		
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Heavy Metals / Metalloids

Arsenic (dissolved)	µg/l	1.1	ISO 17025	< 1.1	< 1.1	< 1.1		
Cadmium (dissolved)	µg/l	0.08	ISO 17025	< 0.08	< 0.08	< 0.08		
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0	< 5.0	< 5.0		
Chromium (dissolved)	µg/l	0.4	ISO 17025	0.9	1.3	0.7		
Copper (dissolved)	µg/l	0.7	ISO 17025	5.8	4.1	3.3		
Lead (dissolved)	µg/l	1	ISO 17025	6.9	5.7	< 1.0		
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5	< 0.5	< 0.5		
Nickel (dissolved)	µg/l	0.3	ISO 17025	1.5	0.4	0.5		
Selenium (dissolved)	µg/l	4	ISO 17025	< 4.0	< 4.0	< 4.0		
Zinc (dissolved)	µg/l	0.4	ISO 17025	7.0	5.4	2.0		



Analytical Report Number: 20-11060
Project / Site name: Northenden College

Your Order No: 13969 EF F

Lab Sample Number				1517855	1517856	1517857		
Sample Reference				TP124	TP132	TP136		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				0.30	0.50	0.50		
Date Sampled				20/05/2020	20/05/2020	21/05/2020		
Time Taken				None Supplied	None Supplied	None Supplied		
Analytical Parameter (Leachate Analysis)				Units	Limit of detection	Accreditation Status		

Monoaromatics & Oxygenates

Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
MTBE (Methyl Tertiary Butyl Ether)	µg/l	10	NONE	< 10	< 10	< 10		

Petroleum Hydrocarbons

TPH1 (C10 - C40)	µg/l	10	NONE	< 10	< 10	< 10		
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TPH-CWG - Aliphatic >C5 - C6	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
TPH-CWG - Aliphatic >C6 - C8	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
TPH-CWG - Aliphatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10		

TPH-CWG - Aromatic >C5 - C7	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
TPH-CWG - Aromatic >C7 - C8	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
TPH-CWG - Aromatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10		



Analytical Report Number : 20-11060

Project / Site name: Northenden College

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1517845	TP110	None Supplied	0.20	Brown loam and clay with gravel and vegetation.
1517846	TP122	None Supplied	1.20	Brown loam and sand with gravel and vegetation.
1517847	TP123	None Supplied	0.30	Brown loam and clay with gravel and vegetation.
1517848	TP125	None Supplied	1.00	Brown loam and sand with gravel and vegetation.
1517849	TP128	None Supplied	0.80	Brown loam and clay with gravel and vegetation.
1517850	TP129	None Supplied	0.20	Brown loam and clay with gravel and vegetation.
1517851	TP133	None Supplied	0.50	Brown loam and clay with gravel and vegetation.
1517852	TP135	None Supplied	1.40	Brown loam and sand with gravel and vegetation.
1517853	WS126	None Supplied	0.10	Brown loam and clay with gravel and vegetation.
1517854	WS127	None Supplied	0.90	Light brown sand with gravel.

Analytical Report Number : 20-11060

Project / Site name: Northenden College

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BS EN 12457-1 (2:1) Leachate Prep	2:1 (as recieved, moisture adjusted) end over end extraction with water for 24 hours. Eluate filtered prior to analysis.	In-house method based on BSEN12457-1.	L043-PL	W	NONE
BTEX and MTBE in leachates (Monoaromatics)	Determination of BTEX and MTBE in leachates by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	ISO 17025
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
Hexavalent chromium in leachate	Determination of hexavalent chromium in leachate by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	ISO 17025
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals by ICP-OES in leachate	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in leachate - LOW LEVEL 1 ug/l	Determination of phenols in leachate by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
pH at 20oC in leachate	Determination of pH in leachate by electrometric measurement.	In house method.	L005-PL	W	ISO 17025
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Speciated EPA-16 PAHs in leachate	Determination of PAH compounds in leachate by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L102B-PL	W	NONE
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS

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The results included within the report relate only to the sample(s) submitted for testing.

Page 13 of 15

Analytical Report Number : 20-11060

Project / Site name: Northenden College

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in leachate - 1µg/l	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L023-PL	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
TPH1 (Leachates)	Determination of dichloromethane extractable hydrocarbons in leachate by GC-MS.	In-house method	L070-PL	W	NONE
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Sample Deviation Report



Sample ID	Other_ID	Sample Type	Job	Sample Number	Sample Deviation Code	test_name	test_ref	Test Deviation code
TP110		S	20-11060	1517845	c	Total cyanide in soil	L080-PL	c
TP122		S	20-11060	1517846	c	Total cyanide in soil	L080-PL	c

**Rebecca Hodnett**

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Analytical Report Number : 20-12523

Project / Site name:	Northenden College	Samples received on:	04/06/2020
Your job number:	13-969	Sample instructed/ Analysis started on:	04/06/2020
Your order number:	13969-EF-I	Analysis completed by:	11/06/2020
Report Issue Number:	1	Report issued on:	11/06/2020
Samples Analysed:	4 water samples		

Signed:

Rachel Bradley

Deputy Quality Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

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The results included within the report relate only to the sample(s) submitted for testing.

Page 1 of 5



Analytical Report Number: 20-12523

Project / Site name: Northenden College

Your Order No: 13969-EF-1

Lab Sample Number				1525208	1525209	1525210	1525211	
Sample Reference				WS102	WS106	WS117	WS123	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	
Date Sampled				04/06/2020	04/06/2020	04/06/2020	04/06/2020	
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					

General Inorganics

pH	pH Units	N/A	ISO 17025	7.0	7.3	7.0	7.4	
Total Cyanide (Low Level 1 µg/l)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	

Total Phenols

Total Phenols (monohydric)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
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Heavy Metals / Metalloids

Arsenic (dissolved)	µg/l	0.15	ISO 17025	0.78	0.46	8.22	1.61	
Cadmium (dissolved)	µg/l	0.02	ISO 17025	0.09	0.08	< 0.02	0.14	
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	
Chromium (dissolved)	µg/l	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	0.2	
Copper (dissolved)	µg/l	0.5	ISO 17025	6.4	4.2	1.9	5.6	
Lead (dissolved)	µg/l	0.2	ISO 17025	0.2	< 0.2	0.5	0.4	
Mercury (dissolved)	µg/l	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05	
Nickel (dissolved)	µg/l	0.5	ISO 17025	2.8	1.3	8.5	0.8	
Selenium (dissolved)	µg/l	0.6	ISO 17025	1.0	2.2	0.9	1.2	
Zinc (dissolved)	µg/l	0.5	ISO 17025	9.7	5.2	6.5	2.1	

Monoaromatics & Oxygenates

Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	

Petroleum Hydrocarbons

TPH1 (C10 - C40)	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aliphatic >C5 - C6	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
TPH-CWG - Aliphatic >C6 - C8	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
TPH-CWG - Aliphatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic >C5 - C7	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
TPH-CWG - Aromatic >C7 - C8	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
TPH-CWG - Aromatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	



Analytical Report Number: 20-12523

Project / Site name: Northenden College

Your Order No: 13969-EF-1

Lab Sample Number				1525208	1525209	1525210	1525211	
Sample Reference				WS102	WS106	WS117	WS123	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	
Date Sampled				04/06/2020	04/06/2020	04/06/2020	04/06/2020	
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					

VOCS

Chloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Chloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Bromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Vinyl Chloride	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
Trichlorofluoromethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Cis-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
2,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Trichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,1-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Trans-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Tetrachloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Trichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Dibromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Bromodichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Cis-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Trans-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,2-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,3-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Dibromochloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Tetrachloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dibromoethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Chlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,1,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
p & m-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Styrene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Tribromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
o-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,2,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Isopropylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Bromobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
n-Propylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
2-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
4-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,3,5-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
tert-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,4-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
sec-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,3-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
p-Isopropyltoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,4-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dibromo-3-chloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,4-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Hexachlorobutadiene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,3-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	



Analytical Report Number: 20-12523

Project / Site name: Northenden College

Your Order No: 13969-EF-1

Lab Sample Number				1525208	1525209	1525210	1525211	
Sample Reference				WS102	WS106	WS117	WS123	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	
Date Sampled				04/06/2020	04/06/2020	04/06/2020	04/06/2020	
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					

SVOCs

Aniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Phenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2-Chlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Bis(2-chloroethyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
1,3-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
1,2-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
1,4-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Bis(2-chloroisopropyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Hexachloroethane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Nitrobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
4-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Isophorone	µg/l	0.05	NONE	8.0	< 0.05	2.9	< 0.05	
2-Nitrophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2,4-Dimethylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Bis(2-chloroethoxy)methane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
1,2,4-Trichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
4-Chloroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Hexachlorobutadiene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2-Methylnaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2-Chloronaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Dimethylphthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2,6-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
2,4-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Dibenzofuran	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
4-Chlorophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Diethyl phthalate	µg/l	0.05	NONE	2.5	< 0.05	1.5	0.92	
4-Nitroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Azobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Bromophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Hexachlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Carbazole	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Dibutyl phthalate	µg/l	0.05	NONE	0.29	< 0.05	1.0	0.81	
Anthraquinone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Butyl benzyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	

U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number : 20-12523

Project / Site name: Northenden College

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
BTEX and MTBE in water (Monoaromatics)	Determination of BTEX and MTBE in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073B-PL	W	ISO 17025
Hexavalent chromium in water	Determination of hexavalent chromium in water by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method by continuous flow analyser. Accredited Matrices SW, GW, PW.	L080-PL	W	ISO 17025
Low level total cyanide in water	Determination of total cyanide by distillation followed by colorimetry. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
Metals in water by ICP-MS (dissolved)	Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW.	In-house method based on USEPA Method 6020 & 200.8 "for the determination of trace elements in water by ICP-MS.	L012-PL	W	ISO 17025
Monohydric phenols in water - LOW LEVEL 1 ug/l	Determination of phenols in water by continuous flow analyser. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
pH at 20oC in water (automated)	Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW	In house method.	L099-PL	W	ISO 17025
Semi-volatile organic compounds in water	Determination of semi-volatile organic compounds in leachate by extraction in dichloromethane followed by GC-MS.	In-house method based on USEPA 8270	L102B-PL	W	NONE
TPH1 (Waters)	Determination of dichloromethane extractable hydrocarbons in water by GC-MS.	In-house method	L070-PL	W	NONE
TPHCWG (Waters)	Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation.	In-house method	L070-PL	W	NONE
Volatile organic compounds in water	Determination of volatile organic compounds in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073B-PL	W	ISO 17025

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.



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Analytical Report Number : 20-10204

Project / Site name:	Northenden College	Samples received on:	15/05/2020
Your job number:	13 969	Samples instructed on:	18/05/2020
Your order number:	13-969-BH-A	Analysis completed by:	26/05/2020
Report Issue Number:	1	Report issued on:	26/05/2020
Samples Analysed:	9 soil samples		

Signed: *Ag. Czerwińska*

Agnieszka Czerwińska

Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 20-10204

Project / Site name: Northenden College

Your Order No: 13-969-BH-A

Lab Sample Number	1513283	1513284	1513285	1513286	1513287
Sample Reference	WS101	WS103	WS104	WS107	WS110
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.10	0.10	1.60	0.55	0.80
Date Sampled	12/05/2020	12/05/2020	12/05/2020	13/05/2020	13/05/2020
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	10	11
Total mass of sample received	kg	0.001	NONE	0.50	0.40

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	-	Not-detected	-
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	-	-

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	5.3	-	8.4	8.3	8.3
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	< 1
Total Sulphate as SO ₄	mg/kg	50	MCERTS	520	-	78	470	87
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	15	-	9.4	96	9.0
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0075	-	0.0047	0.048	0.0045
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	7.5	-	4.7	48.0	4.5
Sulphide	mg/kg	1	MCERTS	< 1.0	-	< 1.0	59	< 1.0
Total Sulphur	mg/kg	50	MCERTS	280	-	< 50	560	< 50

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	1.2	0.43	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	0.19	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	1.7	0.57	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	1.9	0.59	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.85	0.30	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	1.1	0.41	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	0.90	0.26	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.44	0.13	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.87	0.26	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.44	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.57	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	10.1	2.95	< 0.80	< 0.80	< 0.80
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Analytical Report Number: 20-10204

Project / Site name: Northenden College

Your Order No: 13-969-BH-A

Lab Sample Number	1513283	1513284	1513285	1513286	1513287
Sample Reference	WS101	WS103	WS104	WS107	WS110
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.10	0.10	1.60	0.55	0.80
Date Sampled	12/05/2020	12/05/2020	12/05/2020	13/05/2020	13/05/2020
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	17	15	1.0	68	1.0
Barium (aqua regia extractable)	mg/kg	1	MCERTS	-	88	-	-	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-	0.64	-	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	-	0.4	-	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	1.0	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	14	-	4.9	22	6.0
Copper (aqua regia extractable)	mg/kg	1	MCERTS	39	13	3.3	49	1.7
Lead (aqua regia extractable)	mg/kg	1	MCERTS	100	49	3.4	110	2.1
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.8	0.5	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	17	13	5.6	35	6.3
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-	23	-	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	64	38	17	180	14

Petroleum Hydrocarbons

TPH (C5 - C6)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C6 - C8)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH (C12 - C16)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
TPH (C16 - C21)	mg/kg	1	MCERTS	13	1.9	< 1.0	< 1.0	< 1.0
TPH (C21 - C35)	mg/kg	1	MCERTS	38	7.1	< 1.0	< 1.0	< 1.0
TPH (C35 - C40)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH Total C5 - C40	mg/kg	10	MCERTS	53	11	< 10	< 10	< 10

Analytical Report Number: 20-10204

Project / Site name: Northenden College

Your Order No: 13-969-BH-A

Lab Sample Number				1513288	1513289	1513290	1513291	
Sample Reference				WS111	WS112	WS114	WS118	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				0.20	0.40	1.20	0.30	
Date Sampled				13/05/2020	13/05/2020	14/05/2020	14/05/2020	
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Moisture Content	%	N/A	NONE	10	7.6	4.2	10	
Total mass of sample received	kg	0.001	NONE	0.70	0.50	0.60	0.50	

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	Chrysotile	
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	-	Detected	
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	0.002	
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	0.002	

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	-	7.1	-	-	
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	290	-	-	
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	74	-	-	
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	0.037	-	-	
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	36.9	-	-	
Sulphide	mg/kg	1	MCERTS	-	6.9	-	-	
Total Sulphur	mg/kg	50	MCERTS	-	170	-	-	

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-	< 1.0	-	-	
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	2.0	
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Acenaphthene	mg/kg	0.05	MCERTS	0.22	< 0.05	< 0.05	0.76	
Fluorene	mg/kg	0.05	MCERTS	0.20	< 0.05	< 0.05	0.44	
Phenanthrene	mg/kg	0.05	MCERTS	2.9	< 0.05	< 0.05	4.6	
Anthracene	mg/kg	0.05	MCERTS	0.51	< 0.05	< 0.05	0.96	
Fluoranthene	mg/kg	0.05	MCERTS	3.9	< 0.05	< 0.05	5.3	
Pyrene	mg/kg	0.05	MCERTS	4.4	< 0.05	< 0.05	4.5	
Benzo(a)anthracene	mg/kg	0.05	MCERTS	2.0	< 0.05	< 0.05	2.7	
Chrysene	mg/kg	0.05	MCERTS	2.6	< 0.05	< 0.05	2.2	
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	1.7	< 0.05	< 0.05	2.0	
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	1.1	< 0.05	< 0.05	1.4	
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.8	< 0.05	< 0.05	1.9	
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.86	< 0.05	< 0.05	0.97	
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.32	< 0.05	< 0.05	0.29	
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.3	< 0.05	< 0.05	1.1	

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	23.8	< 0.80	< 0.80	31.2	
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Analytical Report Number: 20-10204

Project / Site name: Northenden College

Your Order No: 13-969-BH-A

Lab Sample Number				1513288	1513289	1513290	1513291	
Sample Reference				WS111	WS112	WS114	WS118	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				0.20	0.40	1.20	0.30	
Date Sampled				13/05/2020	13/05/2020	14/05/2020	14/05/2020	
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	19	4.4	2.9	24	
Barium (aqua regia extractable)	mg/kg	1	MCERTS	89	-	33	1200	
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.87	-	0.47	1.2	
Boron (water soluble)	mg/kg	0.2	MCERTS	0.5	-	0.3	1.4	
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	15	-	-	
Copper (aqua regia extractable)	mg/kg	1	MCERTS	56	3.2	6.8	47	
Lead (aqua regia extractable)	mg/kg	1	MCERTS	150	9.3	13	110	
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	1.0	< 0.3	< 0.3	0.4	
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	16	7.0	26	20	
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	27	-	20	28	
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	70	22	55	250	

Petroleum Hydrocarbons

TPH (C5 - C6)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
TPH (C6 - C8)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	4.1	
TPH (C12 - C16)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	5.6	
TPH (C16 - C21)	mg/kg	1	MCERTS	14	< 1.0	< 1.0	30	
TPH (C21 - C35)	mg/kg	1	MCERTS	28	< 1.0	< 1.0	40	
TPH (C35 - C40)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	
TPH Total C5 - C40	mg/kg	10	MCERTS	44	< 10	< 10	87	



Analytical Report Number : 20-10204

Project / Site name: Northenden College

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1513283	WS101	None Supplied	0.10	Brown loam and sand with vegetation and gravel.
1513284	WS103	None Supplied	0.10	Brown loam and sand with vegetation and gravel.
1513285	WS104	None Supplied	1.60	Light brown sand.
1513286	WS107	None Supplied	0.55	Brown clay and sand with gravel.
1513287	WS110	None Supplied	0.80	Light brown sand with gravel.
1513288	WS111	None Supplied	0.20	Brown loam and sand with vegetation and gravel.
1513289	WS112	None Supplied	0.40	Brown loam and sand with vegetation and gravel.
1513290	WS114	None Supplied	1.20	Brown sand with gravel.
1513291	WS118	None Supplied	0.30	Brown sand with gravel and brick.



Analytical Report Number: 20-10204
Project / Site name: Northenden College
Your Order No:

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006-PL based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
1513291	WS118	0.30	154	Loose Fibres	Chrysotile	0.002	0.002

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

Analytical Report Number : 20-10204

Project / Site name: Northenden College

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 dphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS



Analytical Report Number : 20-10204

Project / Site name: Northenden College

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Sample Deviation Report



Sample ID	Other ID	Sample Type	Job	Sample Number	Sample Deviation Code	test_name	test_ref	Test Deviation code
WS101		S	20-10204	1513283	c	Total cyanide in soil	L080-PL	c
WS103		S	20-10204	1513284	c	Total cyanide in soil	L080-PL	c
WS104		S	20-10204	1513285	c	Total cyanide in soil	L080-PL	c

APPENDIX VII ORIGIN OF TIER I GENERIC ASSESSMENT CRITERIA

CONSTITUENT	ORIGIN OF RISK ASSESSMENT VALUE
Arsenic	2014 LQM/CIEH S4ULs
Cadmium	2014 LQM/CIEH S4ULs
Chromium	2014 LQM/CIEH S4ULs
Lead	2014 LQM/CIEH S4ULs
Mercury	2014 LQM/CIEH S4ULs – methylmercury
Nickel	2014 LQM/CIEH S4ULs
Selenium	2014 LQM/CIEH S4ULs
Copper	2014 LQM/CIEH S4ULs
Zinc	2014 LQM/CIEH S4ULs
Cyanide – Total	2014 LQM/CIEH S4ULs
Phenols – Total	2014 LQM/CIEH S4ULs
Naphthalene	General assessment criteria (GAC) developed by CIEH/LQM Suitable 4 Use Levels with supporting data from SR3, SR7 and existing Tox report where applicable. 1% SOM.
Acenaphthylene	
Acenaphthene	
Fluorene	
Phenanthrene	
Anthracene	
Fluoranthene	
Pyrene	
Benzo(a)Anthracene	
Chrysene	
Benzo(b/k)Fluoranthene (iii)	
Benzo(a)Pyrene	
Indeno(123-cd)Pyrene	
Dibenzo(a,h)Anthracene	
Benzo(ghi)Perylene	
TPH C ₅ -C ₆ (aliphatic)	
TPH C ₆ -C ₈ (aliphatic)	
TPH C ₈ -C ₁₀ (aliphatic)	
TPH C ₁₀ -C ₁₂ (aliphatic)	
TPH C ₁₂ -C ₁₆ (aromatic)	
TPH C ₁₆ -C ₂₁ (aromatic)	
TPH C ₂₁ -C ₃₅ (aromatic)	



APPENDIX VIII

GEOTECHNICAL TEST

CERTIFICATES



LABORATORY REPORT



4043

Contract Number: PSL20/2586

Report Date: 19 June 2020

Client's Reference: 13969

Client Name: E3P
Taylor Road
Urmston
Manchester
M41 7JQ

For the attention of: Rebecca Hodnett/Elizabeth Fearn

Contract Title: Northenden College

Date Received: 28/5/2020

Date Commenced: 28/5/2020

Date Completed: 19/6/2020

Notes: Opinions and Interpretations are outside the UKAS Accreditation

A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced other than in full, without the prior written approval of the laboratory.

Checked and Approved Signatories:

R Gunson
(Director)

A Watkins
(Director)

R Berriman
(Quality Manager)

L Knight
(Senior Technician)


S Eyre
(Senior Technician)

R Cowles
(Senior Technician)

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Page 1 of

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Description of Sample
WS101		Liner	3.50	4.00	Soft brown slightly gravelly sandy CLAY.
WS107		Tub	2.00	2.45	Brown gravelly very sandy CLAY.
WS108		Liner	3.50	4.00	Firm brown slightly gravelly very sandy CLAY.
WS114		Tub	3.00	3.45	Brown slightly gravelly very sandy CLAY.
WS118		Liner	3.50	4.00	Firm brown slightly gravelly very sandy CLAY.
WS123		Tub	3.00	3.45	Brown slightly gravelly very sandy CLAY.
WS127		Tub	3.00	3.45	Brown very sandy CLAY.
WS129		Liner	3.50	4.00	Soft brown slightly gravelly CLAY.
TP103		Bulk	1.00		Brown very gravelly silty SAND.
TP110		Bulk	1.00		Brown slightly silty very sandy GRAVEL.
TP111		Tub	0.60		Brown slightly sandy CLAY.
TP126		Bulk	0.70		MADE GROUND brown silty very sandy gravel with cobbles.
TP134		Bulk	1.00		MADE GROUND brown very gravelly silty sand.
TP137		Bulk	1.50		Brown very gravelly slightly silty SAND.



4043

PSL

Professional Soils Laboratory

Northenden College

Contract No:

PSL20/2586

Client Ref:

13969

SUMMARY OF SOIL CLASSIFICATION TESTS

(BS1377 : PART 2 : 1990)

[illegible]

SYMBOLS : NP : Non Plastic

*** : Liquid Limit and Plastic Limit Wet Sieved.**



4043

PSL
Professional Soils Laboratory

Northenden College

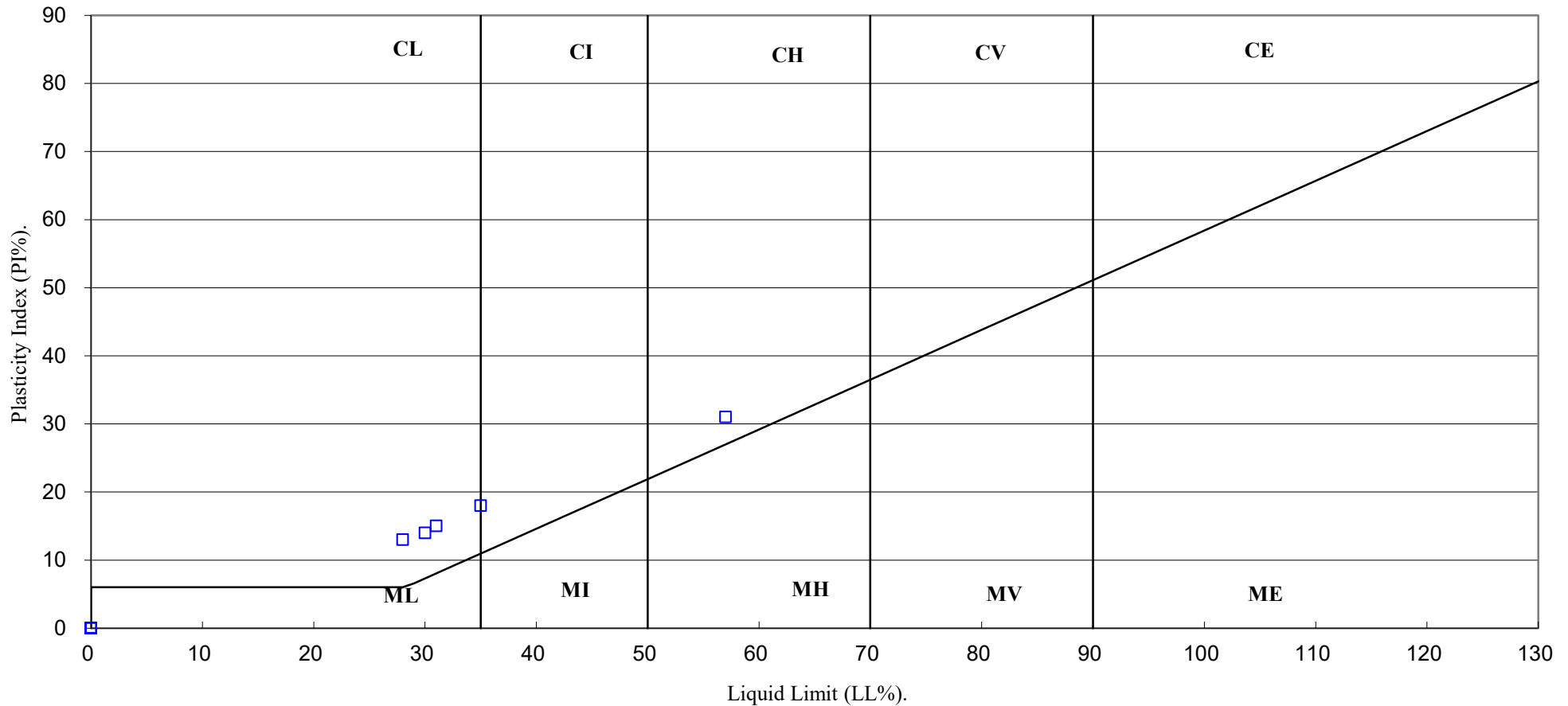
Contract No:

PSL20/2586

Client Ref:

13969

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.



4043

PSL
Professional Soils Laboratory

Northenden College

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Client Ref:

13969

PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

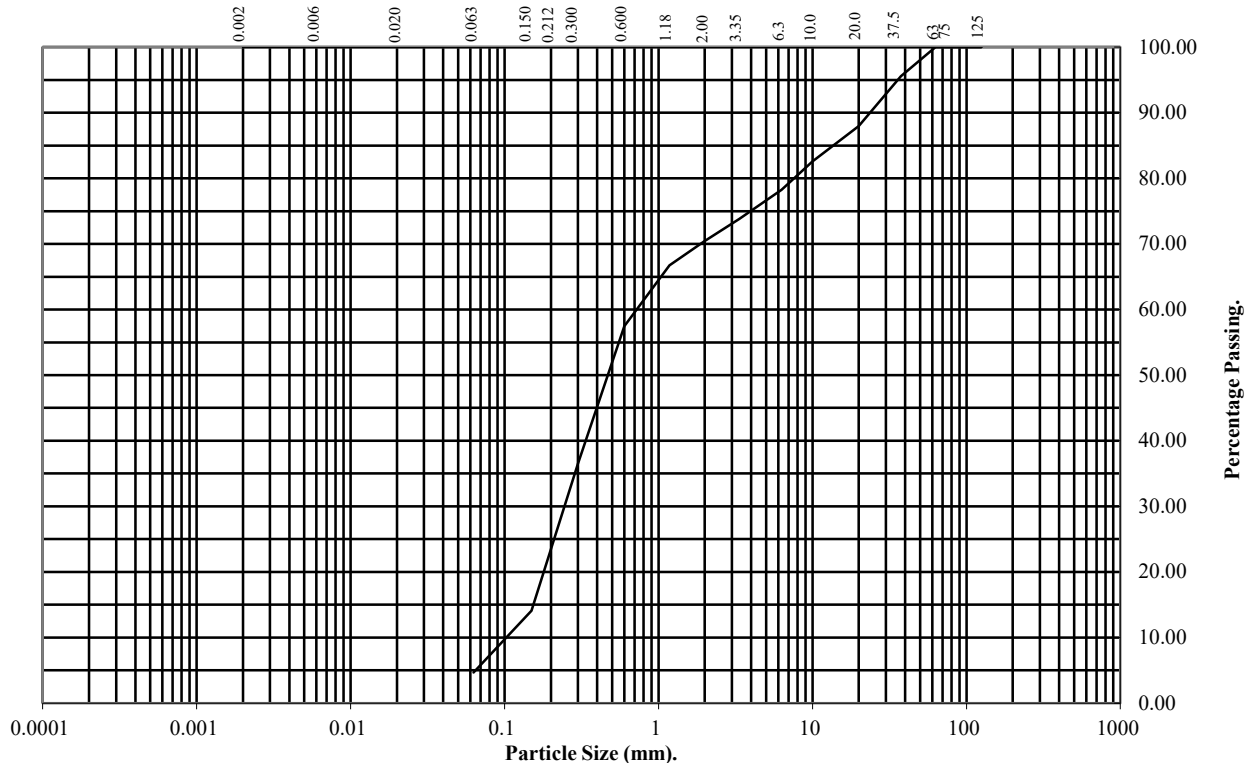
Hole Number: TP103

Top Depth (m): 1.00

Sample Number:

Base Depth(m):

Sample Type: Bulk



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	96
20	88
10	83
6.3	78
3.35	74
2	70
1.18	67
0.6	57
0.3	36
0.212	25
0.15	14
0.063	5

Soil Fraction	Total Percentage
Cobbles	0
Gravel	30
Sand	65
Silt/Clay	5

Remarks:

See Summary of Soil Descriptions



PSL
Professional Soils Laboratory

Northenden College

Contract No:
PSL20/2586
Client Ref:
13969

PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

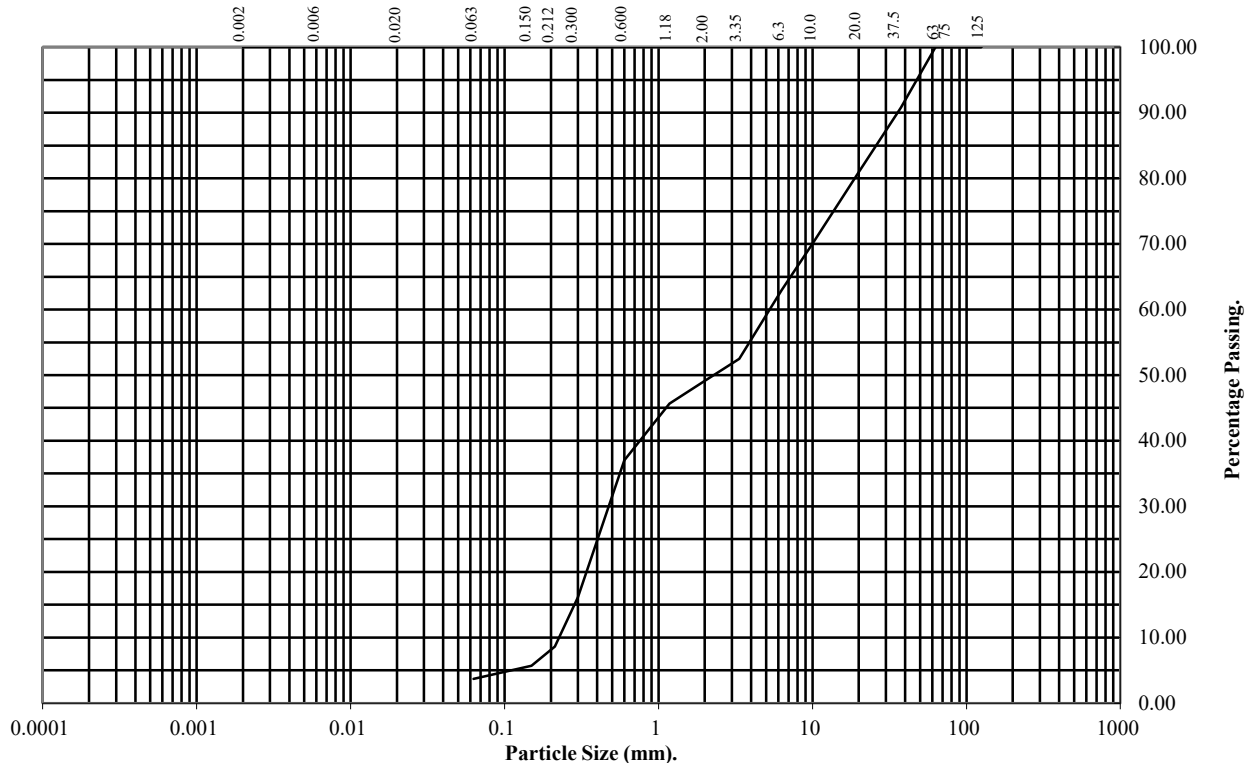
Hole Number: TP110

Top Depth (m): 1.00

Sample Number:

Base Depth(m):

Sample Type: Bulk



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	91
20	81
10	70
6.3	63
3.35	52
2	49
1.18	46
0.6	37
0.3	16
0.212	9
0.15	6
0.063	4

Soil Fraction	Total Percentage
Cobbles	0
Gravel	51
Sand	45
Silt/Clay	4

Remarks:

See Summary of Soil Descriptions



PSL
Professional Soils Laboratory

Northenden College

Contract No:
PSL20/2586
Client Ref:
13969

PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

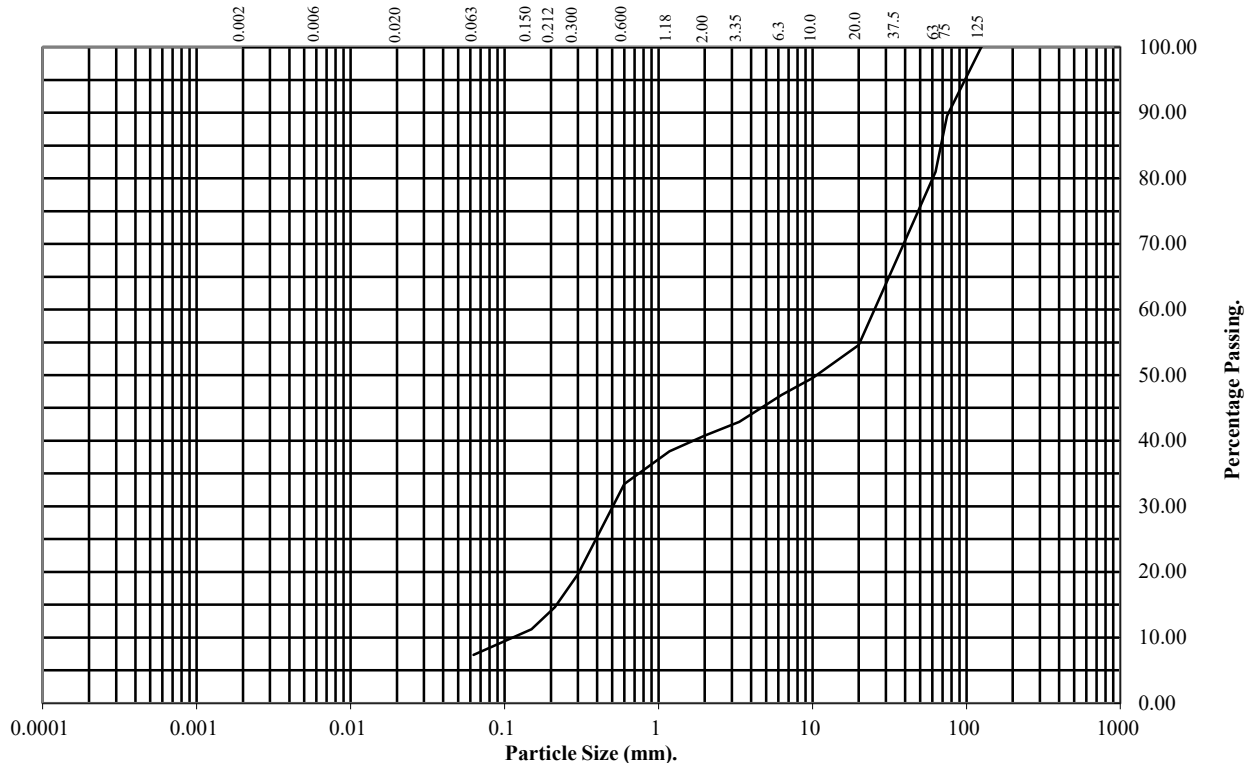
Hole Number: TP126

Top Depth (m): 0.70

Sample Number:

Base Depth(m):

Sample Type: Bulk



BS Test Sieve (mm)	Percentage Passing
125	100
75	90
63	81
37.5	69
20	55
10	50
6.3	47
3.35	43
2	41
1.18	38
0.6	33
0.3	20
0.212	15
0.15	11
0.063	7

Soil Fraction	Total Percentage
Cobbles	19
Gravel	40
Sand	34
Silt/Clay	7

Remarks:

See Summary of Soil Descriptions



PSL
Professional Soils Laboratory

Northenden College

Contract No:

PSL20/2586

Client Ref:

13969

PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

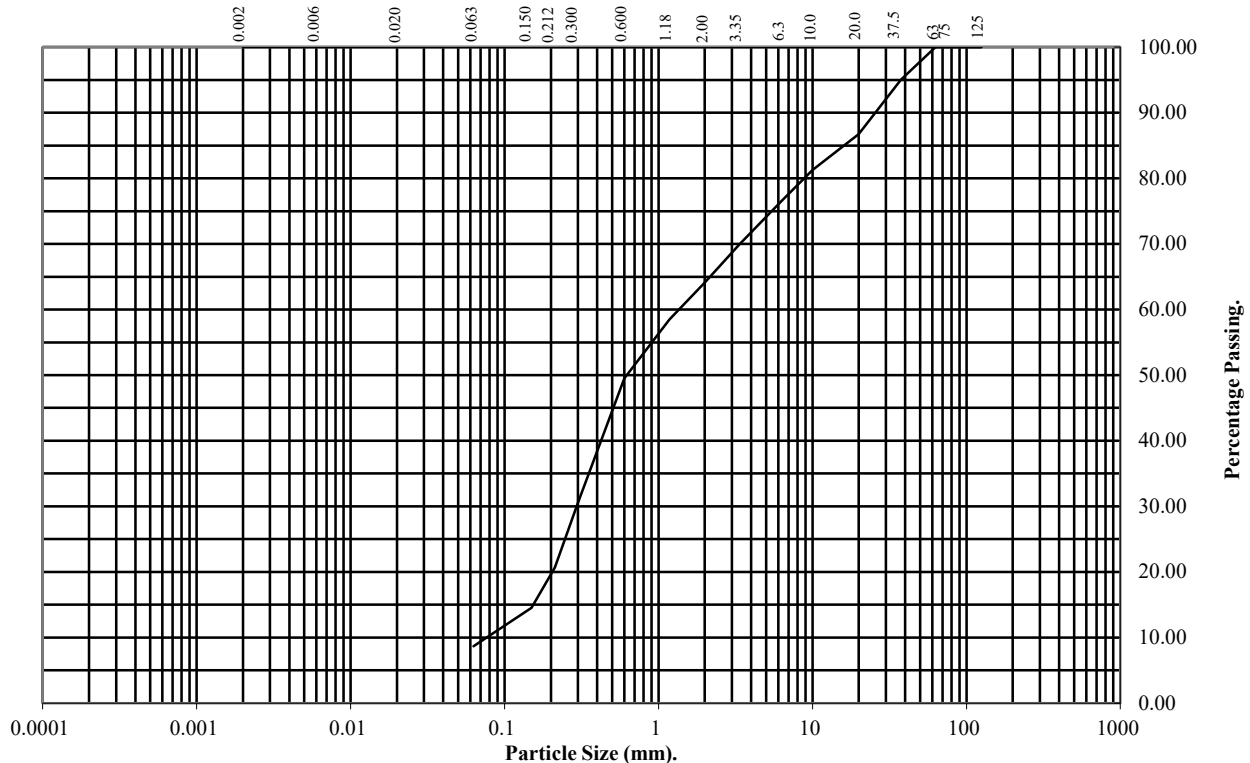
Hole Number: TP134

Top Depth (m): 1.00

Sample Number:

Base Depth(m):

Sample Type: Bulk



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	95
20	87
10	81
6.3	77
3.35	70
2	64
1.18	59
0.6	49
0.3	31
0.212	21
0.15	15
0.063	9

Soil Fraction	Total Percentage
Cobbles	0
Gravel	36
Sand	55
Silt/Clay	9

Remarks:

See Summary of Soil Descriptions



PSL
Professional Soils Laboratory

Northenden College

Contract No:
PSL20/2586
Client Ref:
13969

PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

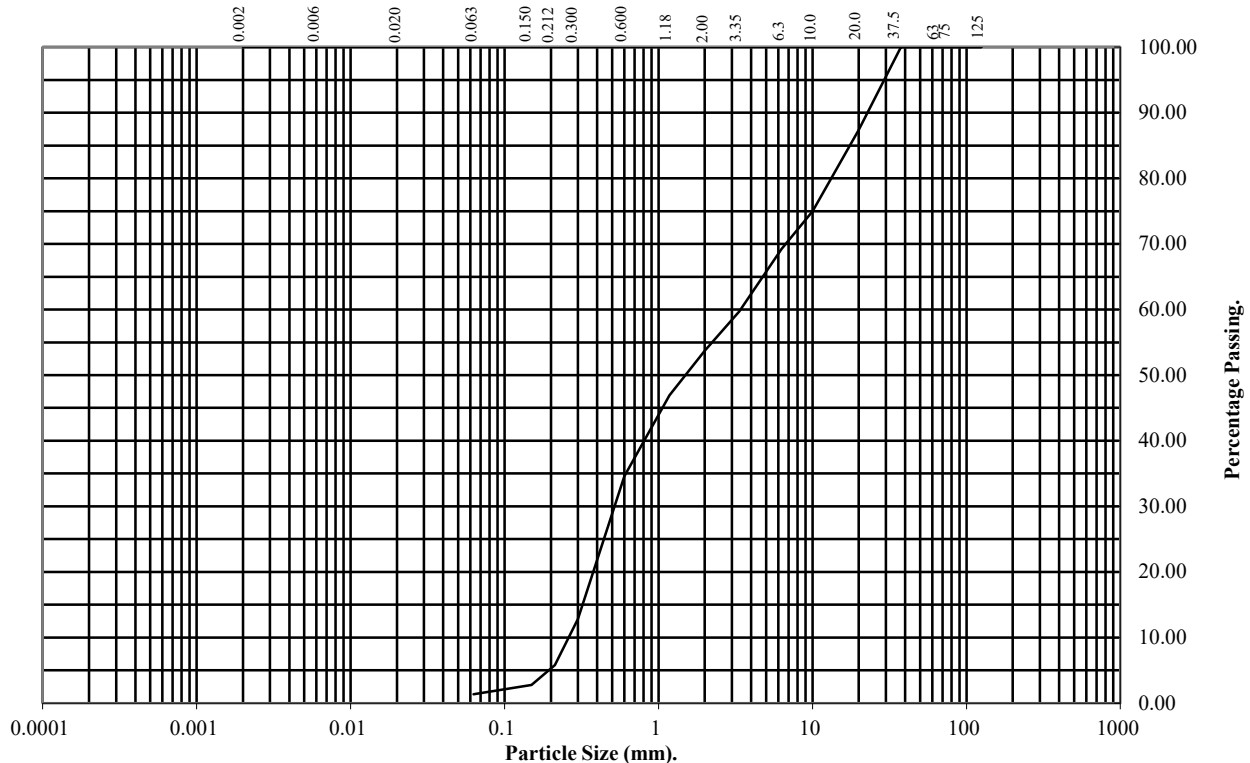
Hole Number: TP137

Top Depth (m): 1.50

Sample Number:

Base Depth(m):

Sample Type: Bulk



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	87
10	75
6.3	69
3.35	60
2	54
1.18	47
0.6	35
0.3	13
0.212	6
0.15	3
0.063	1

Soil Fraction	Total Percentage
Cobbles	0
Gravel	46
Sand	53
Silt/Clay	1

Remarks:

See Summary of Soil Descriptions



PSL
Professional Soils Laboratory

Northenden College

Contract No:
PSL20/2586
Client Ref:
13969

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

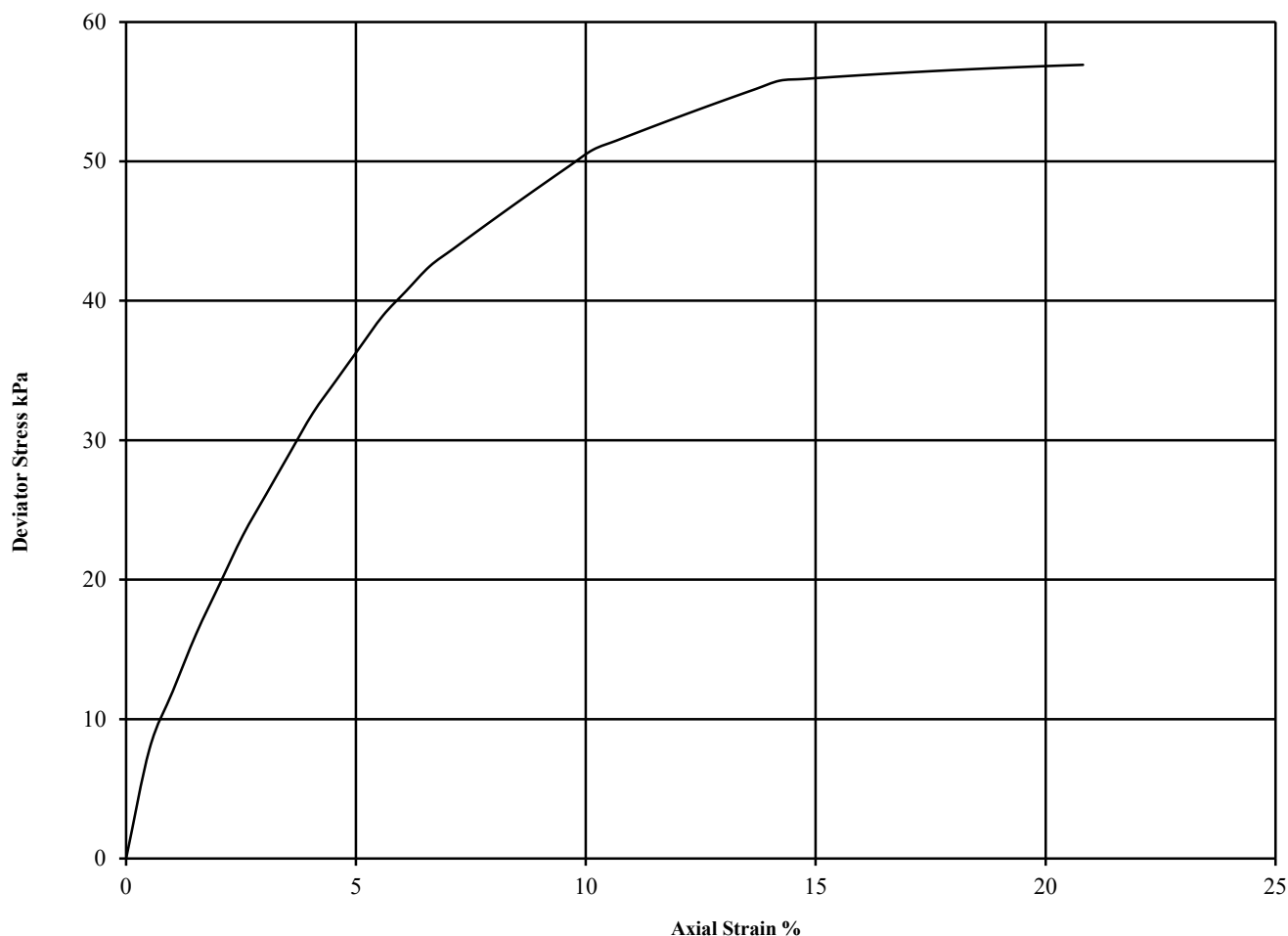
Hole Number: WS101

Top Depth (m): 3.50

Sample Number:

Base Depth (m): 4.00

Sample Type Liner



Diameter (mm):		66		Height (mm):		130	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.48 See summary of soil descriptions	
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$				
1	27	1.90	1.50	75	57	28	20.8	Plastic		



PSL
Professional Soils Laboratory

Northenden College

Contract No:

PSL20/2586

Client Ref:

13969

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

Hole Number: WS108

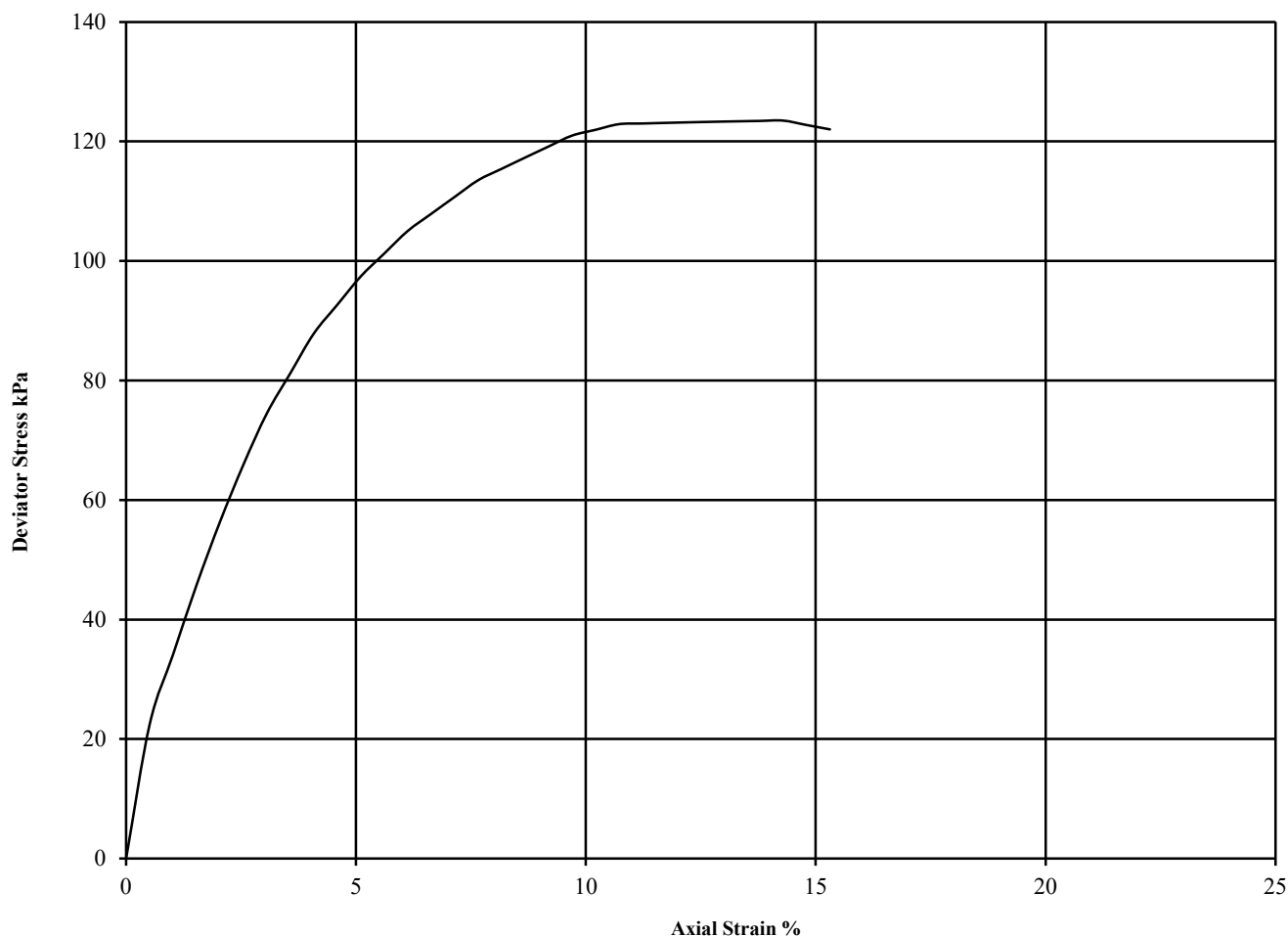
Top Depth (m): 3.50

Sample Number:

Base Depth (m): 4.00

Sample Type

Liner



Diameter (mm):		74		Height (mm):		145		Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.46 See summary of soil descriptions		
1	16	2.19	1.90	θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$	62	Plastic			



PSL
Professional Soils Laboratory

Northenden College

Contract No:

PSL20/2586

Client Ref:

13969

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

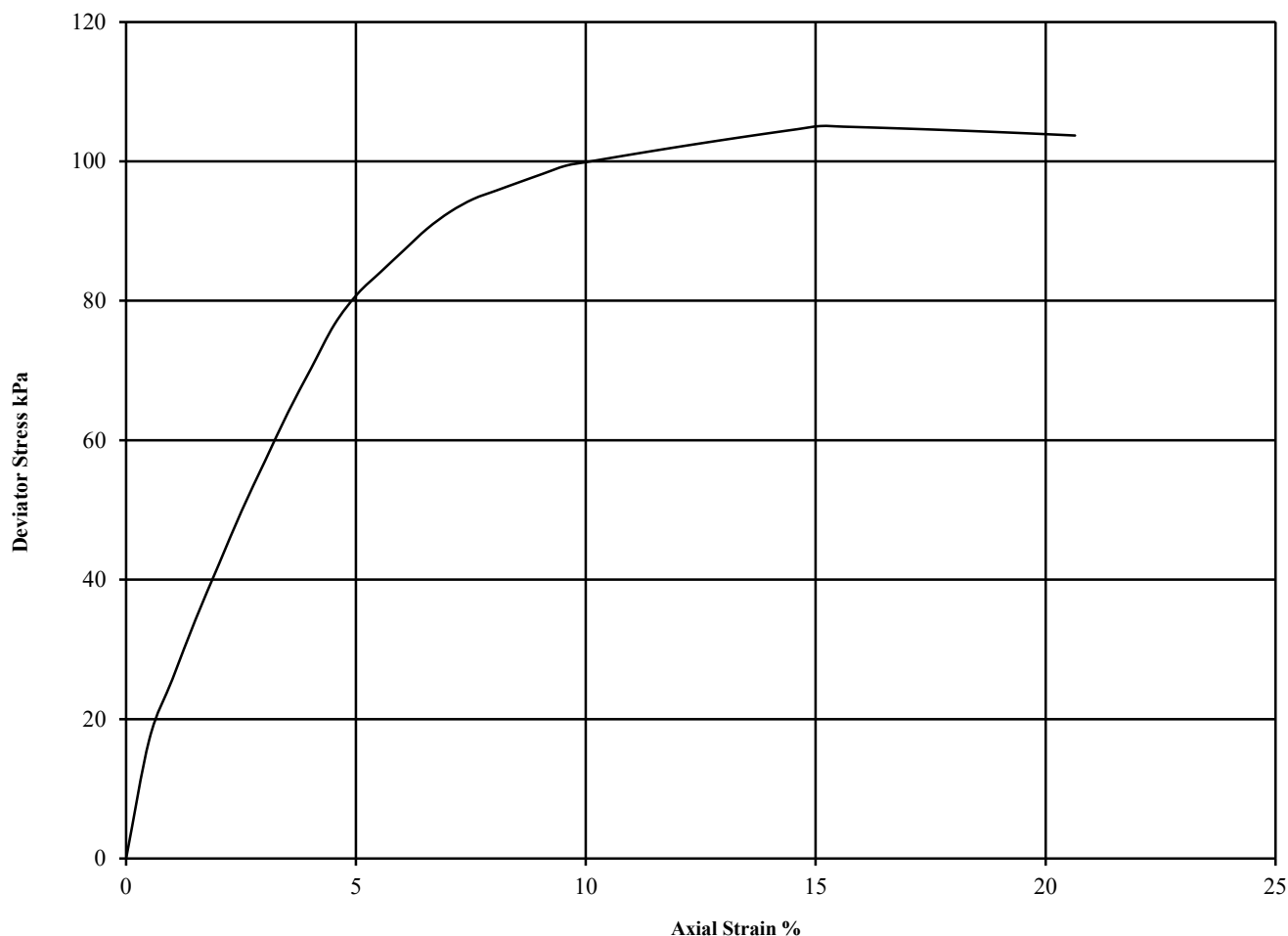
Hole Number: WS118

Top Depth (m): 3.50

Sample Number:

Base Depth (m): 4.00

Sample Type Liner



Diameter (mm):		73	Height (mm):		145	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Undisturbed Sample
									Sample taken from top of tube
									Rate of strain = 2 %/min
									Latex Membrane used 0.2 mm thick,
				θ_3	$(\theta_1-\theta_3)_f$	$^{1/2}(\theta_1-\theta_3)_f$			Correction applied 0.46
1	16	2.28	1.96	75	105	53	15.1	Plastic	See summary of soil descriptions



PSL
Professional Soils Laboratory

Northenden College

Contract No:

PSL20/2586

Client Ref:

13969

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

Hole Number: WS129

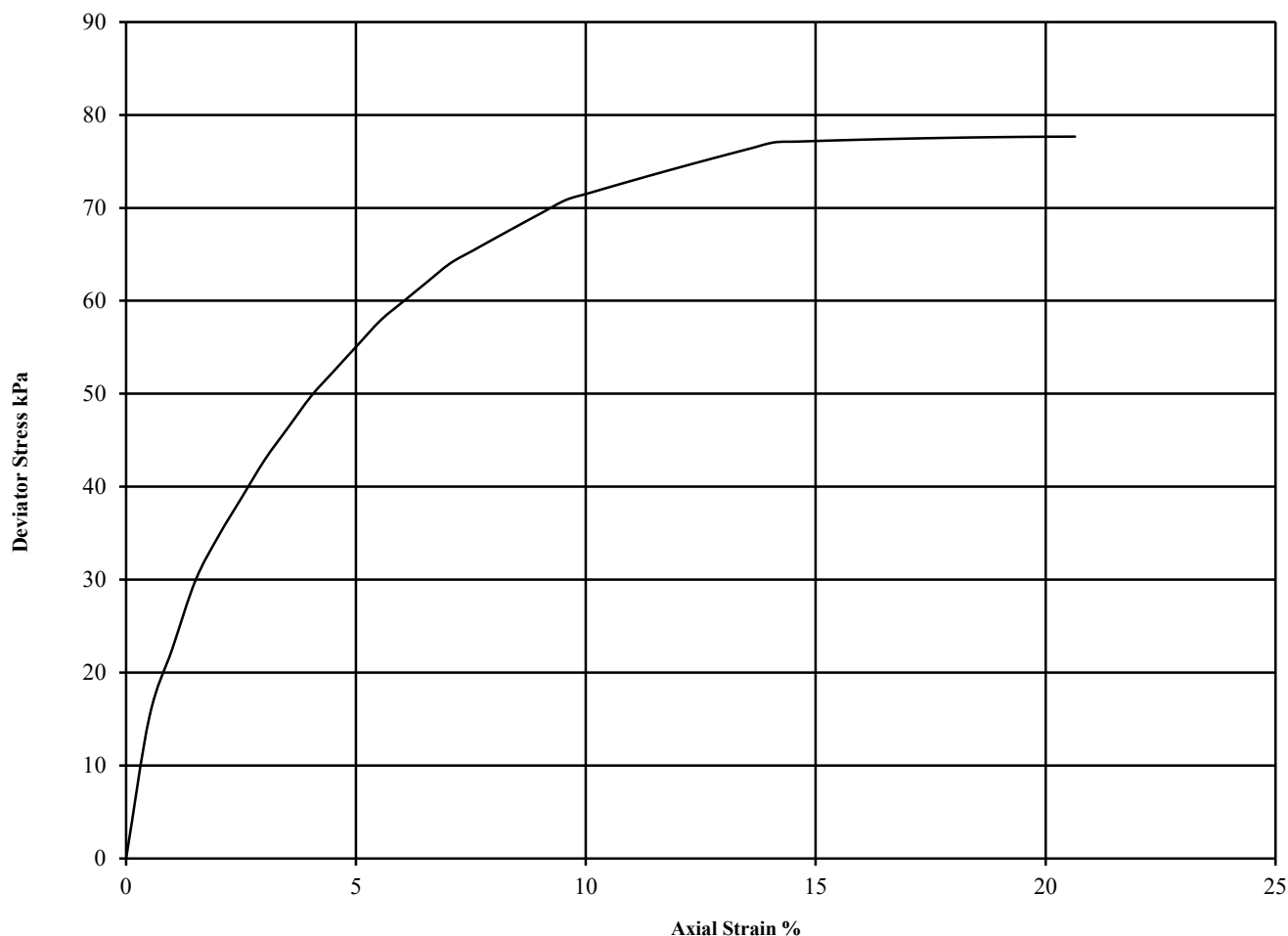
Top Depth (m): 3.50

Sample Number:

Base Depth (m): 4.00

Sample Type

Liner



Diameter (mm):		73		Height (mm):		145		Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.44 See summary of soil descriptions		
1	24	1.97	1.58	θ_3 75	$(\theta_1 - \theta_3)_f$ 78	$\frac{1}{2}(\theta_1 - \theta_3)_f$ 39	20.6	Plastic			



PSL
Professional Soils Laboratory

Northenden College

Contract No:

PSL20/2586

Client Ref:

13969

ONE DIMENSIONAL CONSOLIDATION TEST

BS 1377: Part 5: 1990: Clause 3

Hole Number: WS118

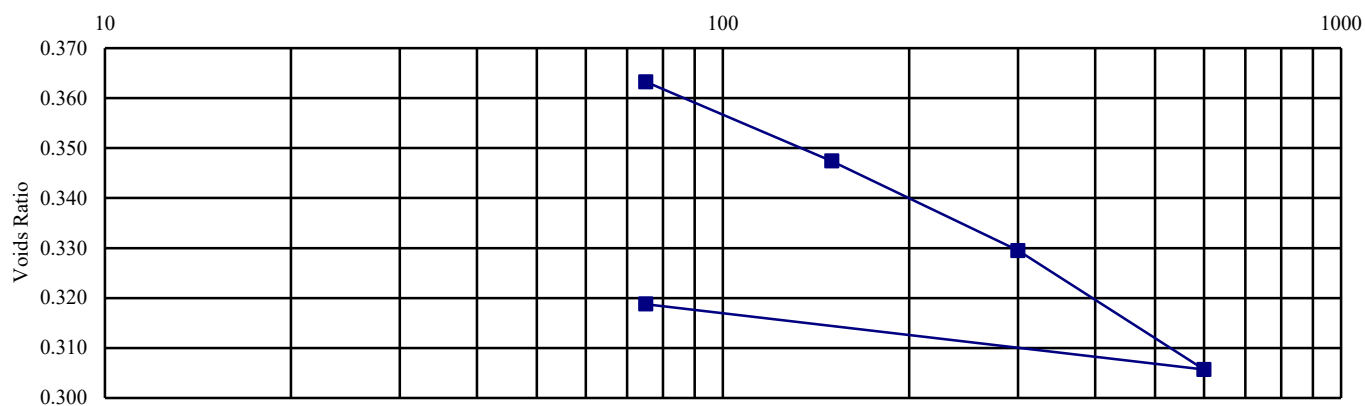
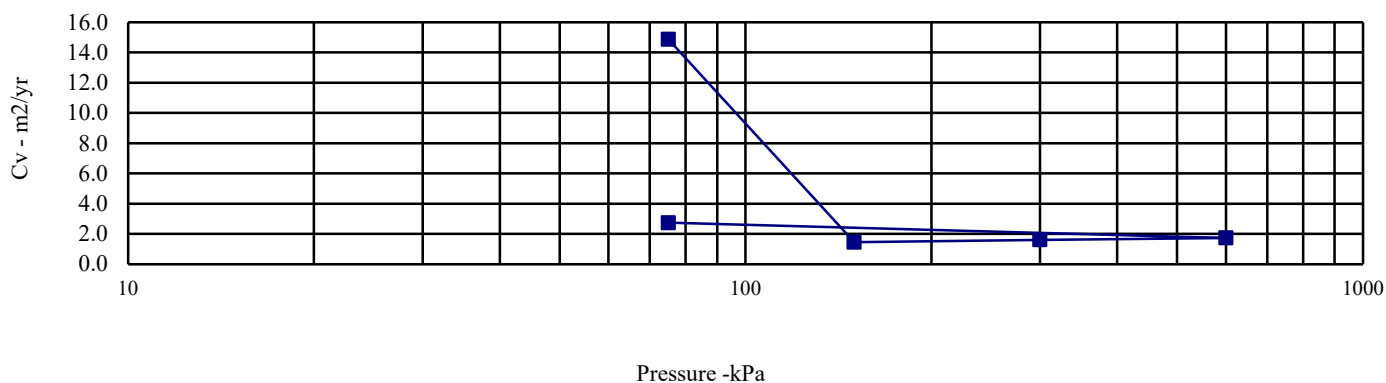
Top Depth (m): 3.50

Sample Number:

Base Depth (m) : 4.00

Sample Type: Liner

Initial Conditions		Pressure Range		Mv	Cv	Specimen location	
Moisture Content (%):	16	kPa		m2/MN	m2/yr	within tube:	Top
Bulk Density (Mg/m3):	2.19	0	75	0.411	14.869	Method used to	
Dry Density (Mg/m3):	1.88	75	150	0.155	1.451	determine CV:	T90
Voids Ratio:	0.407	150	300	0.089	1.603	Nominal temperature	
Degree of saturation:	104.5	300	600	0.060	1.728	during test ' C:	20
Height (mm):	19.96	600	75	0.019	2.737	Remarks:	See summary of soil descriptions
Diameter (mm)	50.098						
Particle Density (Mg/m3):	2.65						
Assumed							



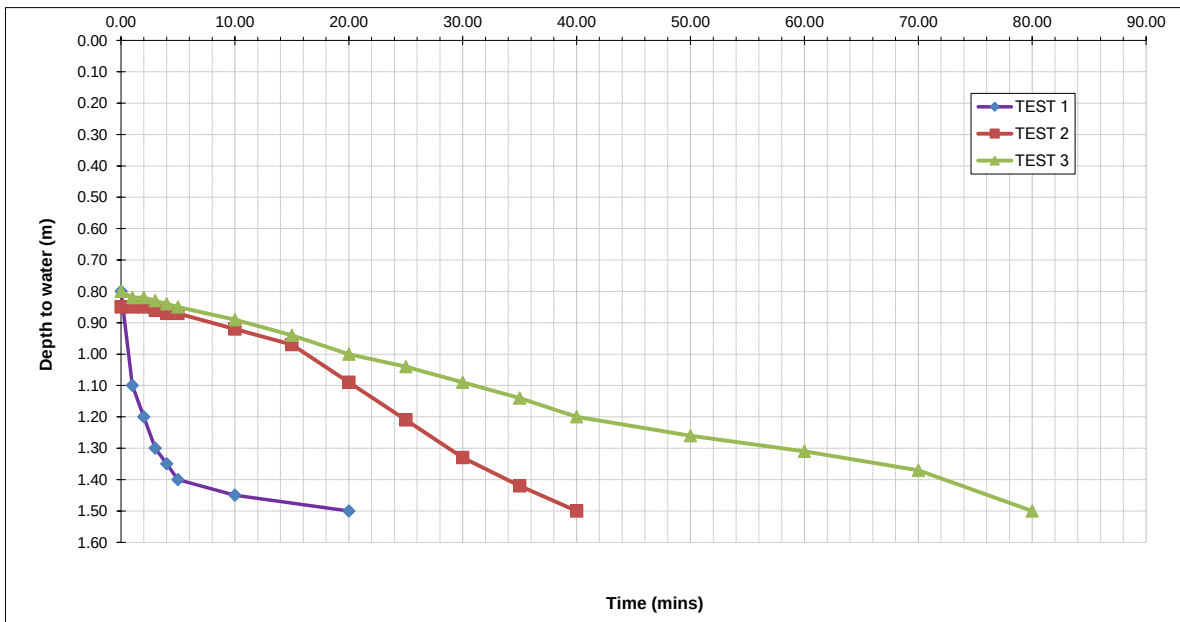
Northenden College

Contract No:
PSL20/2586
Client Ref:
13969

APPENDIX IX SOAKAWAY TEST CERTIFICATES

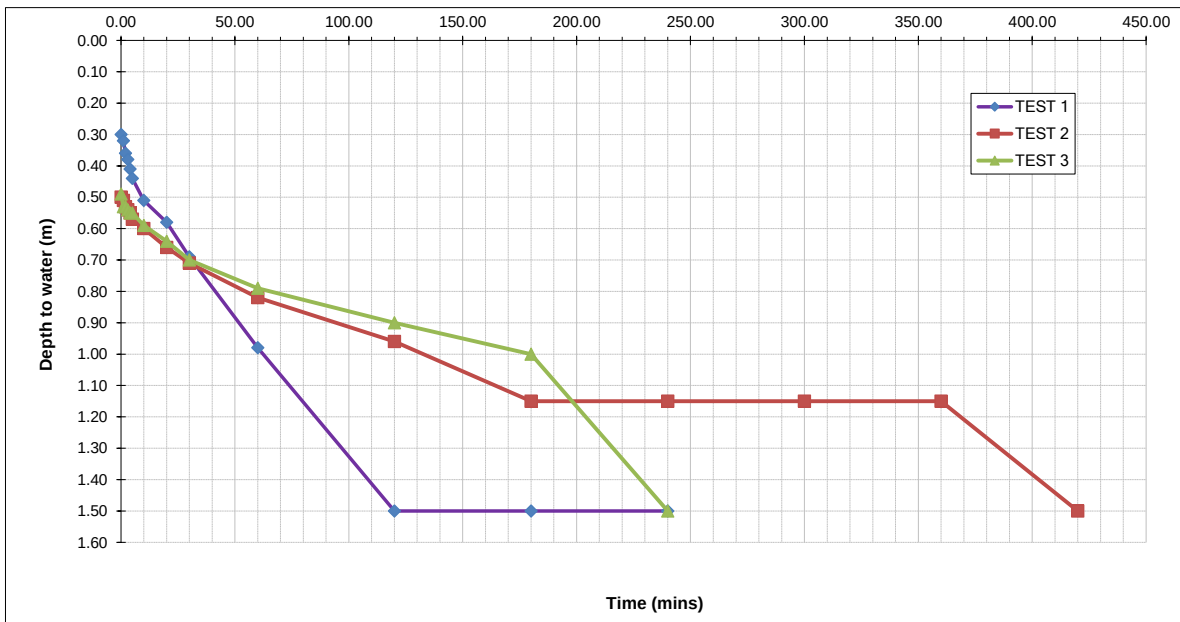
		Site: Northenden College Job Number: 13-969 Date of Test: 18/05/2020		Trial Pit Number: SA101 Length: 2.30 m Width: 0.60 m Depth: 1.50 m Groundwater Level: N/A m		
	TEST 1		TEST 2		TEST 3	
	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)
	0.00	0.80	0.00	0.85	0.00	0.80
	1.00	1.10	1.00	0.85	1.00	0.82
	2.00	1.20	2.00	0.85	2.00	0.82
	3.00	1.30	3.00	0.86	3.00	0.83
	4.00	1.35	4.00	0.87	4.00	0.84
	5.00	1.40	5.00	0.87	5.00	0.85
	10.00	1.45	10.00	0.92	10.00	0.89
	20.00	1.50	15.00	0.97	15.00	0.94
			20.00	1.09	20.00	1.00
			25.00	1.21	25.00	1.04
			30.00	1.33	30.00	1.09
			35.00	1.42	35.00	1.14
			40.00	1.50	40.00	1.20
					50.00	1.26
					60.00	1.31
				70.00	1.37	
				80.00	1.50	
Effective Storage Depth	m	0.70	0.65	0.70		
75% Effective Storage Depth	m	0.53	0.49	0.53		
(i.e. depth below GL)	m	0.98	1.01	0.98		
25% Effective Storage Depth	m	0.18	0.16	0.18		
(i.e. depth below GL)	m	1.33	1.34	1.33		
Effective Storage Depth 75%-25%	m	0.35	0.33	0.35		
Time to fall to 75% effective depth	mins	1.00	16.00	17.00		
Time to fall to 25% effective depth	mins	1.10	31.00	62.00		
V (75%-25%)	m3	0.48	0.45	0.48		
a (50%)	m2	3.41	3.27	3.41		
t (75%-25%)	mins	0.10	15.00	45.00		
SOIL INFILTRATION RATE	m/s	2.36E-02	1.53E-04	5.25E-05		

DESIGN SOIL INFILTRATION RATE, f	5.25E-05
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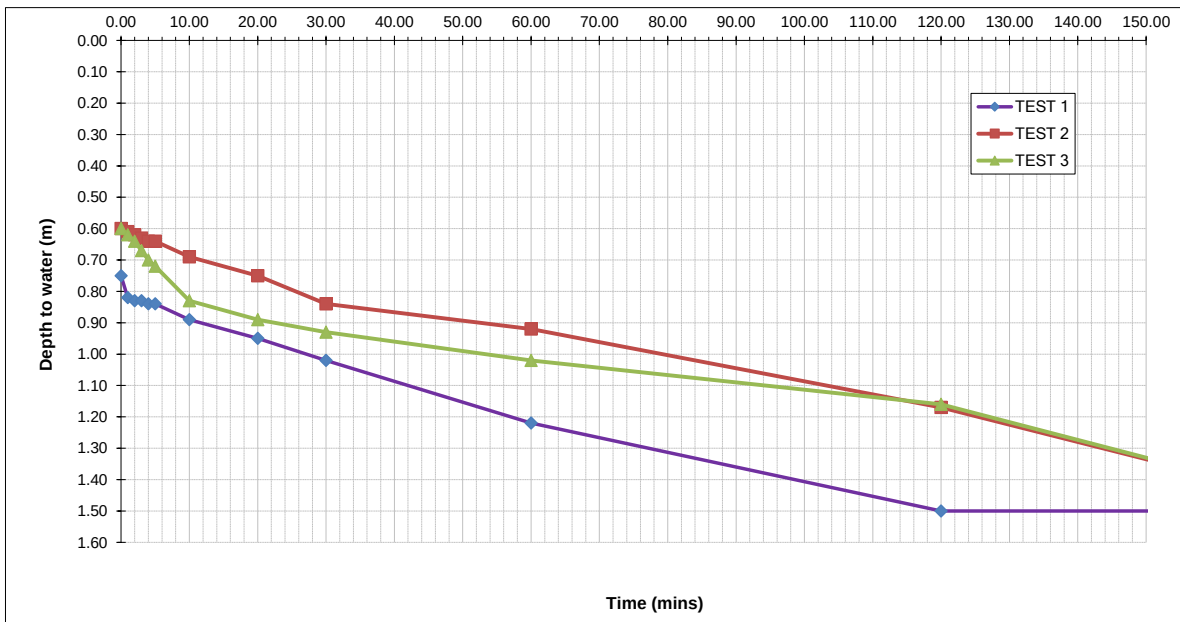
		Site: Northenden College Job Number: 13-969 Date of Test: 18/05/2020		Trial Pit Number: SA102 Length: 2.00 m Width: 0.60 m Depth: 1.50 m Groundwater Level: N/A m		
	TEST 1		TEST 2		TEST 3	
	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)
	0.00	0.30	0.00	0.50	0.00	0.49
	1.00	0.32	1.00	0.51	1.00	0.53
	2.00	0.36	2.00	0.53	2.00	0.53
	3.00	0.38	3.00	0.54	3.00	0.54
	4.00	0.41	4.00	0.55	4.00	0.55
	5.00	0.44	5.00	0.57	5.00	0.55
	10.00	0.51	10.00	0.60	10.00	0.59
	20.00	0.58	20.00	0.66	20.00	0.64
	30.00	0.69	30.00	0.71	30.00	0.70
	60.00	0.98	60.00	0.82	60.00	0.79
	120.00	1.50	120.00	0.96	120.00	0.90
	180.00	1.50	180.00	1.15	180.00	1.00
	240.00	1.50	240.00	1.15	240.00	1.50
			300.00	1.15		
			360.00	1.15		
		420.00	1.50			
Effective Storage Depth	m	1.20	1.00	1.01		
75% Effective Storage Depth	m	0.90	0.75	0.76		
(i.e. depth below GL)	m	0.60	0.75	0.74		
25% Effective Storage Depth	m	0.30	0.25	0.25		
(i.e. depth below GL)	m	1.20	1.25	1.25		
Effective Storage Depth 75%-25%	m	0.60	0.50	0.51		
Time to fall to 75% effective depth	mins	22.00	40.00	50.00		
Time to fall to 25% effective depth	mins	85.00	375.00	210.00		
V (75%-25%)	m3	0.72	0.60	0.61		
a (50%)	m2	4.32	3.80	3.83		
t (75%-25%)	mins	63.00	335.00	160.00		
SOIL INFILTRATION RATE	m/s	4.41E-05	7.86E-06	1.65E-05		

DESIGN SOIL INFILTRATION RATE, f	4.41E-05
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		Site: Northenden College Job Number: 13-969 Date of Test: 18/05/2020		Trial Pit Number: SA103 Length: 2.20 m Width: 0.60 m Depth: 1.50 m Groundwater Level: N/A m		
	TEST 1		TEST 2		TEST 3	
	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)
	0.00	0.75	0.00	0.60	0.00	0.60
	1.00	0.82	1.00	0.61	1.00	0.62
	2.00	0.83	2.00	0.62	2.00	0.64
	3.00	0.83	3.00	0.63	3.00	0.67
	4.00	0.84	4.00	0.64	4.00	0.70
	5.00	0.84	5.00	0.64	5.00	0.72
	10.00	0.89	10.00	0.69	10.00	0.83
	20.00	0.95	20.00	0.75	20.00	0.89
	30.00	1.02	30.00	0.84	30.00	0.93
	60.00	1.22	60.00	0.92	60.00	1.02
	120.00	1.50	120.00	1.17	120.00	1.16
	180.00	1.50	180.00	1.50	180.00	1.50
	240.00	1.50	240.00	1.50	240.00	1.50
Effective Storage Depth	m	0.75	0.90	0.90		
75% Effective Storage Depth	m	0.56	0.68	0.68		
(i.e. depth below GL)	m	0.94	0.83	0.83		
25% Effective Storage Depth	m	0.19	0.23	0.23		
(i.e. depth below GL)	m	1.31	1.28	1.28		
Effective Storage Depth 75%-25%	m	0.38	0.45	0.45		
Time to fall to 75% effective depth	mins	16.00	28.00	10.00		
Time to fall to 25% effective depth	mins	82.00	138.00	138.00		
V (75%-25%)	m3	0.50	0.59	0.59		
a (50%)	m2	3.42	3.84	3.84		
t (75%-25%)	mins	66.00	110.00	128.00		
SOIL INFILTRATION RATE	m/s	3.65E-05	2.34E-05	2.01E-05		

DESIGN SOIL INFILTRATION RATE, f	3.65E-05
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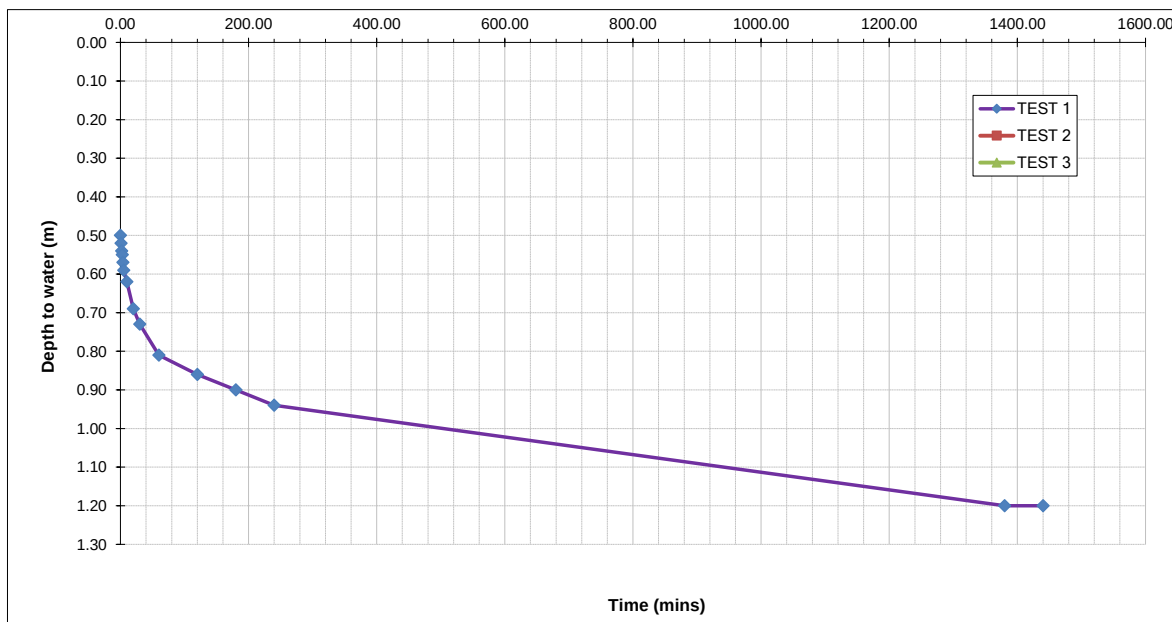
Site: Northenden College
Job Number: 13-969
Date of Test: 19/05/2020

Trial Pit Number: SA104
Length: 2.10 m
Width: 0.60 m
Depth: 1.50 m
Groundwater Level: N/A m

		TEST 1		TEST 2		TEST 3	
		Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)
		0.00	0.50				
		1.00	0.52				
		2.00	0.54				
		3.00	0.55				
		4.00	0.57				
		5.00	0.59				
		10.00	0.62				
		20.00	0.69				
		30.00	0.73				
		60.00	0.81				
		120.00	0.86				
		180.00	0.90				
		240.00	0.94				
		1380.00	1.20				
		1440.00	1.20				
Effective Storage Depth	m		1.00				
75% Effective Storage Depth	m		0.75				
(i.e. depth below GL)	m		0.75				
25% Effective Storage Depth	m		0.25				
(i.e. depth below GL)	m		1.25				
Effective Storage Depth 75%-25%	m		0.50				
Time to fall to 75% effective depth	mins		35.00				
Time to fall to 25% effective depth	mins		N/A				
V (75%-25%)	m3		0.63				
a (50%)	m2		3.96				
t (75%-25%)	mins		N/A				
SOIL INFILTRATION RATE	m/s		N/A				

DESIGN SOIL INFILTRATION RATE, f

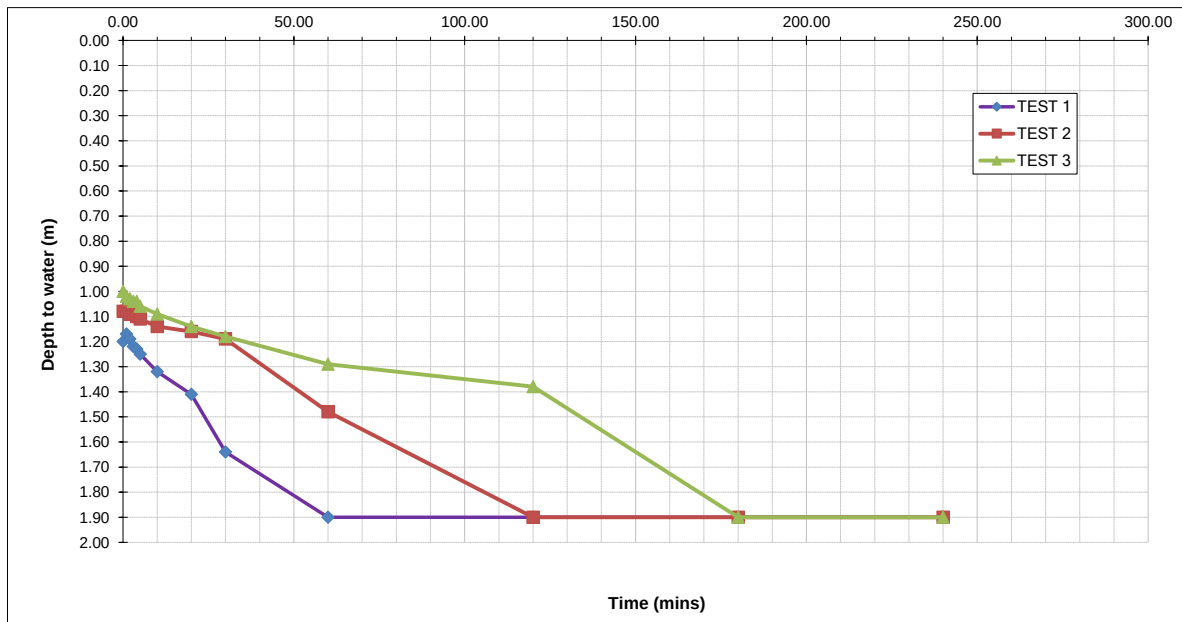
N/A



	Site:	Northenden College	Trial Pit Number:	SA105
	Job Number:	13-969	Length:	2.10 m
	Date of Test:	20/05/2020	Width:	0.60 m
			Depth:	1.90 m
			Groundwater Level:	1.20 m

		TEST 1		TEST 2		TEST 3	
		Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)
		0.00	1.20	0.00	1.08	0.00	1.00
		1.00	1.17	1.00	1.08	1.00	1.02
		2.00	1.19	2.00	1.09	2.00	1.03
		3.00	1.22	3.00	1.09	3.00	1.04
		4.00	1.23	4.00	1.10	4.00	1.04
		5.00	1.25	5.00	1.11	5.00	1.06
		10.00	1.32	10.00	1.14	10.00	1.09
		20.00	1.41	20.00	1.16	20.00	1.14
		30.00	1.64	30.00	1.19	30.00	1.18
		60.00	1.90	60.00	1.48	60.00	1.29
		120.00	1.90	120.00	1.90	120.00	1.38
		180.00	1.90	180.00	1.90	180.00	1.90
		240.00	1.90	240.00	1.90	240.00	1.90
Effective Storage Depth	m		0.70		0.82		0.90
75% Effective Storage Depth	m		0.53		0.62		0.68
(i.e. depth below GL)	m		1.38		1.29		1.23
25% Effective Storage Depth	m		0.18		0.21		0.23
(i.e. depth below GL)	m		1.73		1.70		1.68
Effective Storage Depth 75%-25%	m		0.35		0.41		0.45
Time to fall to 75% effective depth	mins		18.00		40.00		45.00
Time to fall to 25% effective depth	mins		43.00		90.00		155.00
V (75%-25%)	m3		0.44		0.52		0.57
a (50%)	m2		3.15		3.47		3.69
t (75%-25%)	mins		25.00		50.00		110.00
SOIL INFILTRATION RATE	m/s		9.33E-05		4.96E-05		2.33E-05

DESIGN SOIL INFILTRATION RATE, f	9.33E-05
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	Site: Northenden College	Trial Pit Number: SA106
	Job Number: 13-969	Length: 2.30 m
	Date of Test: 20/05/2020	Width: 0.60 m
		Depth: 1.80 m
		Groundwater Level: N/A m

		TEST 1		TEST 2		TEST 3	
		Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)
		0.00	1.20	0.00	1.15	0.00	1.10
		1.00	1.22	1.00	1.16	1.00	1.13
		2.00	1.23	2.00	1.17	2.00	1.13
		3.00	1.23	3.00	1.17	3.00	1.15
		4.00	1.24	4.00	1.18	4.00	1.16
		5.00	1.24	5.00	1.19	5.00	1.18
		10.00	1.29	10.00	1.25	10.00	1.22
		20.00	1.36	20.00	1.34	20.00	1.29
		30.00	1.37	30.00	1.44	30.00	1.36
		60.00	1.80	60.00	1.80	60.00	1.42
		120.00	1.80	120.00	1.80	120.00	1.80
		180.00	1.80	180.00	1.80	180.00	1.80
		240.00	1.80	240.00	1.80	240.00	1.80
Effective Storage Depth	m		0.60		0.65		0.70
75% Effective Storage Depth	m		0.45		0.49		0.53
(i.e. depth below GL)	m		1.35		1.31		1.28
25% Effective Storage Depth	m		0.15		0.16		0.18
(i.e. depth below GL)	m		1.65		1.64		1.63
Effective Storage Depth 75%-25%	m		0.30		0.33		0.35
Time to fall to 75% effective depth	mins		19.00		18.00		19.00
Time to fall to 25% effective depth	mins		50.00		48.00		95.00
V (75%-25%)	m3		0.41		0.45		0.48
a (50%)	m2		3.12		3.27		3.41
t (75%-25%)	mins		31.00		30.00		76.00
SOIL INFILTRATION RATE	m/s		7.13E-05		7.63E-05		3.11E-05

DESIGN SOIL INFILTRATION RATE, f	7.13E-05
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APPENDIX X DYNAMIC CONE PENETROMETER TEST CERTIFICATES

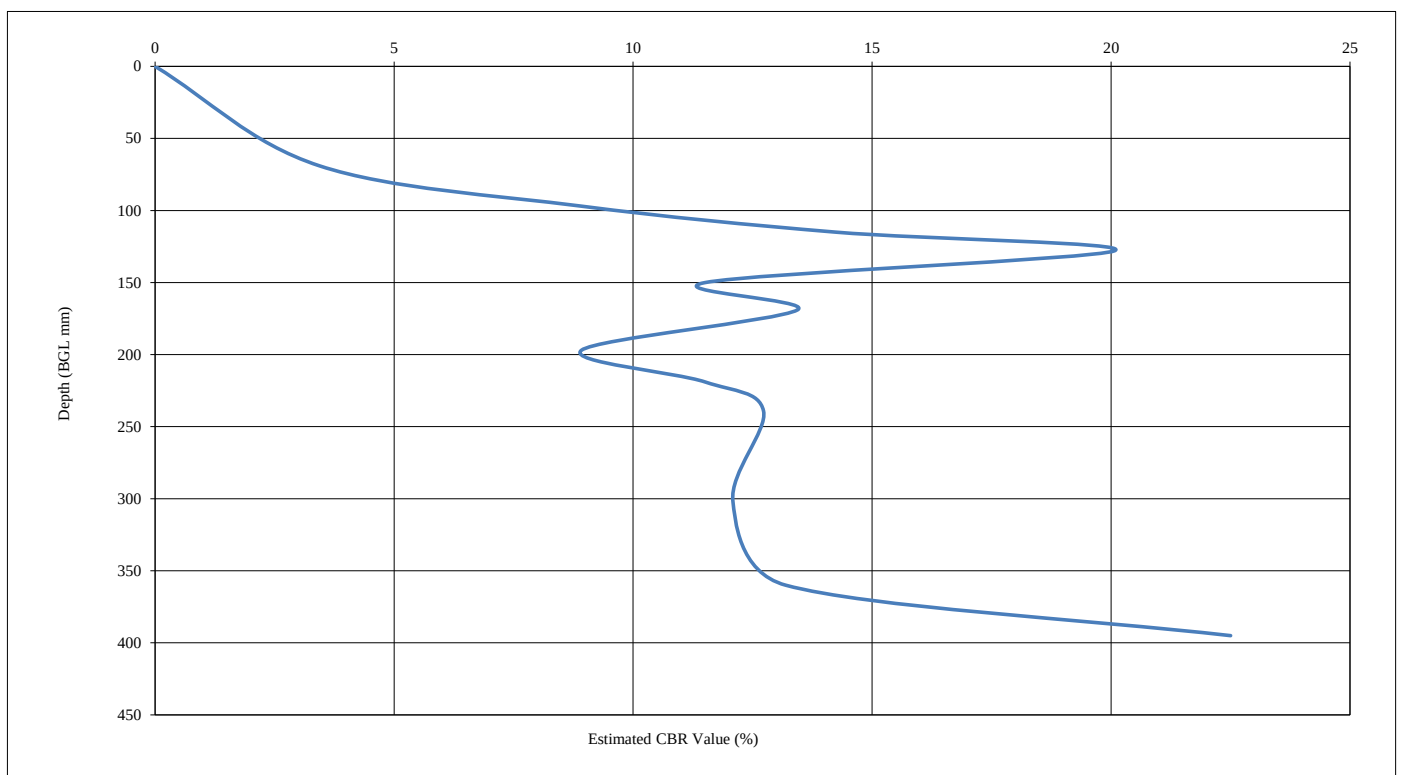


Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Northenden College	Test Date:	18/06/2020
Site Ref	13-969	Test Location:	Wythenshawe
Test No.:	DCP109	Easting:	0
Initial Depth (mm BGL):	0	Northing:	0
Final Depth (mm BGL):	395		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	128	4	4	32.00	7.75
128	360	15	11	21.09	12.03
360	395	18	3	11.67	22.50

Comments

Terminated Due to Obstruction.

Site Engineer:	Checked By:	Date:	Approved By:	Date:
JN	EF	22/06/2020	BH	19/07/2020

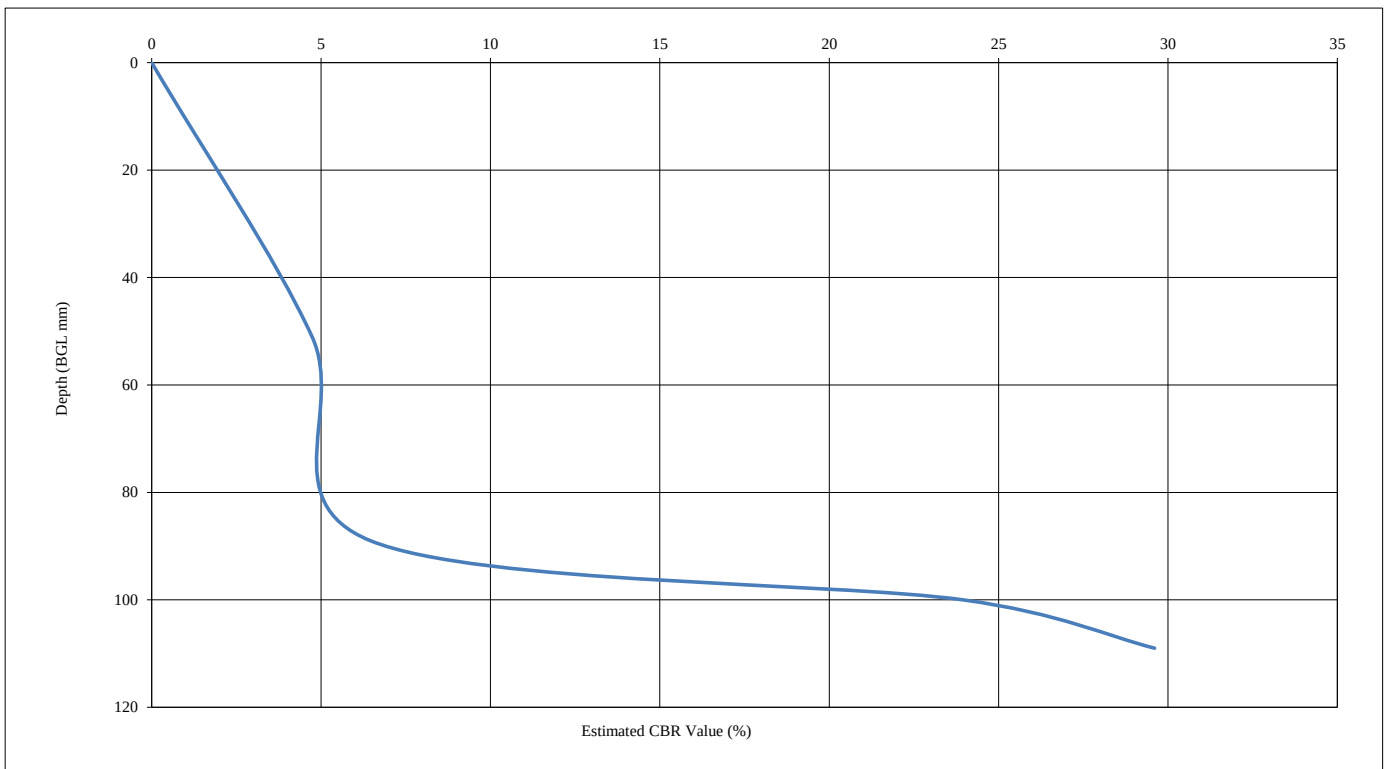


Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Northenden College	Test Date:	18/06/2020
Site Ref	13-969	Test Location:	Wythenshawe
Test No.:	DCP101	Easting:	0
Initial Depth (mm BGL):	0	Northing:	0
Final Depth (mm BGL):	109		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	89	2	4	22.25	11.37
89	109	4	2	10.00	26.49

Comments

Terminated Due to Obstruction.

Site Engineer:	Checked By:	Date:	Approved By:	Date:
JN	EF	22/06/2020	BH	19/07/2020

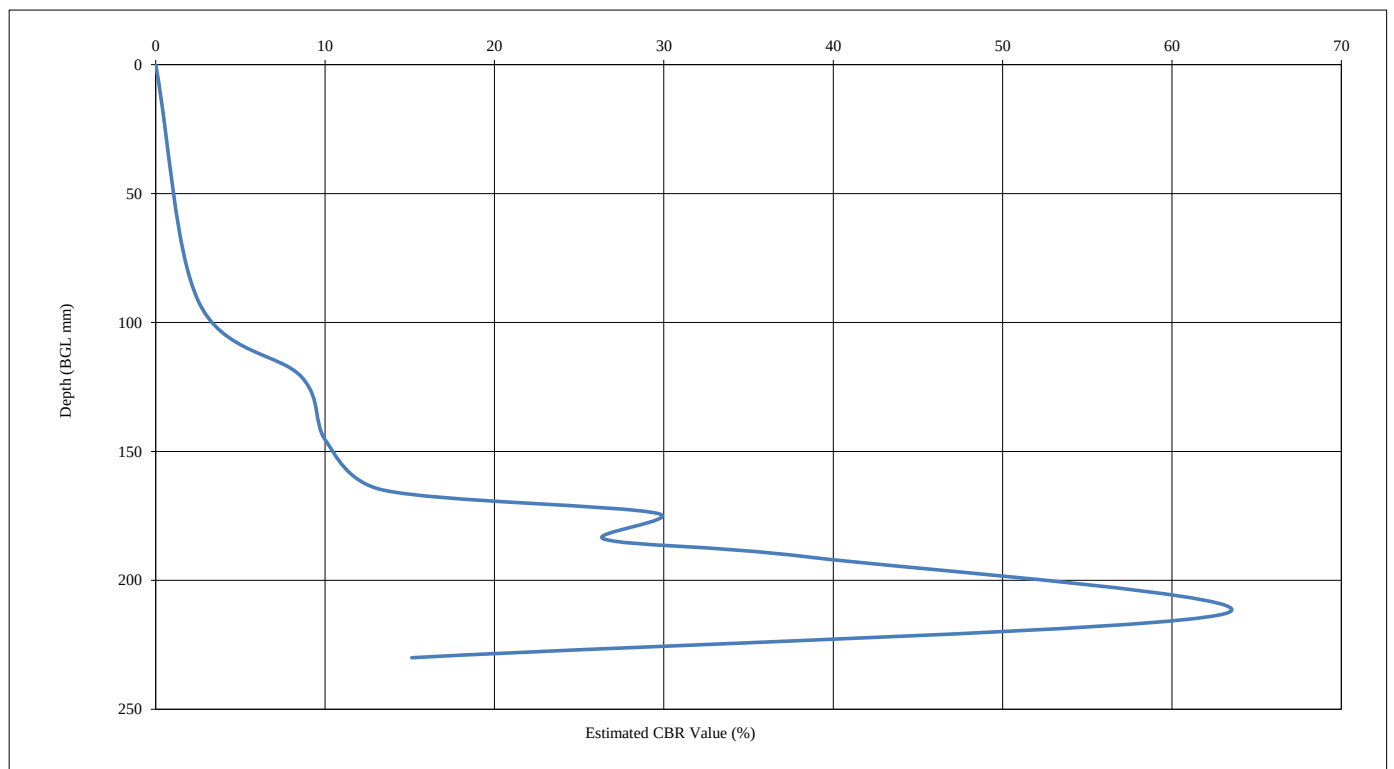


Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Northenden College	Test Date:	18/06/2020
Site Ref	13-969	Test Location:	Wythenshawe
Test No.:	DCP102	Easting:	0
Initial Depth (mm BGL):	0	Northing:	0
Final Depth (mm BGL):	230		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	146	3	4	36.50	6.74
146	184	6	3	12.67	20.63
184	230	13	7	6.57	41.28

Comments

Terminated Due to Obstruction

Site Engineer:	Checked By:	Date:	Approved By:	Date:
JN	EF	22/06/2020	BH	19/07/2020



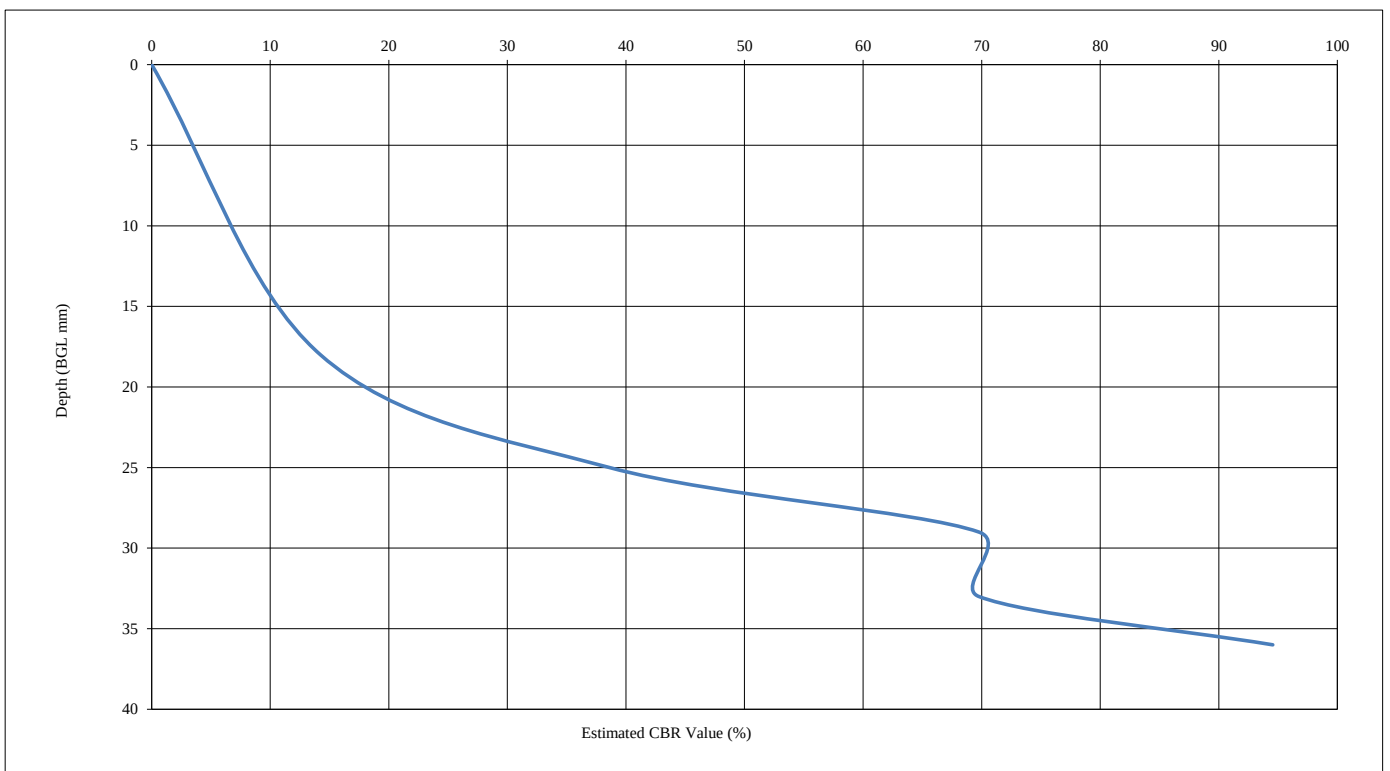
Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name: Northenden College
Site Ref: 13-969
Test No.: DCP103
Initial Depth (mm BGL): 0
Final Depth (mm BGL): 36

Test Date: 18/06/2020
Test Location: Wythenshawe
Easting: 0
Northing: 0

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	33	4	4	8.25	32.46
33	36	5	1	3.00	94.55

Comments

Terminated Due to Hardstanding Obstruction.

Site Engineer:	Checked By:	Date:	Approved By:	Date:
JN	EF	22/06/2020	BH	19/07/2020

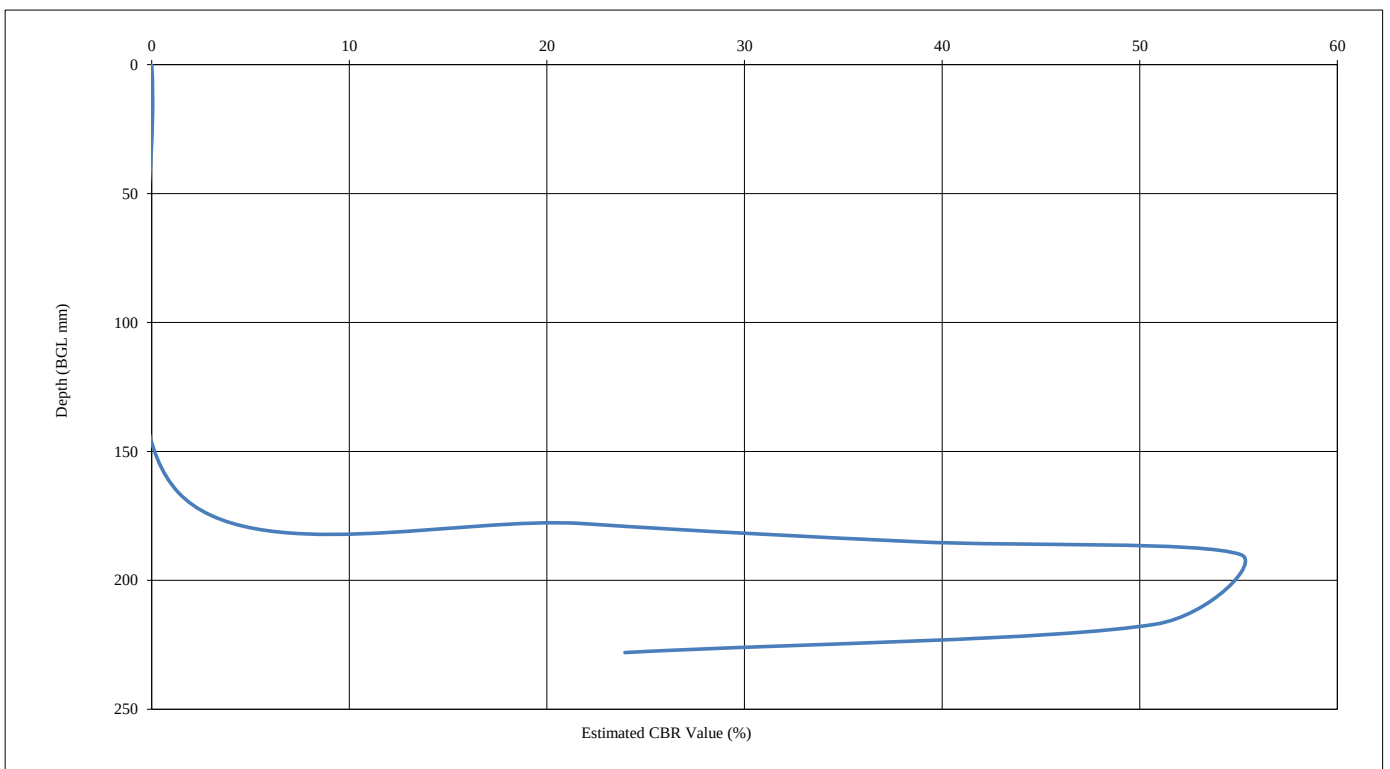


Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Northenden College	Test Date:	18/06/2020
Site Ref	13-969	Test Location:	Wythenshawe
Test No.:	DCP104	Easting:	0
Initial Depth (mm BGL):	0	Northing:	0
Final Depth (mm BGL):	228		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	178	2	4	44.50	5.47
178	228	10	8	6.25	43.53

Comments

Terminated Due to Obstruction

Site Engineer:	Checked By:	Date:	Approved By:	Date:
JN	EF	22/06/2020	BH	19/07/2020

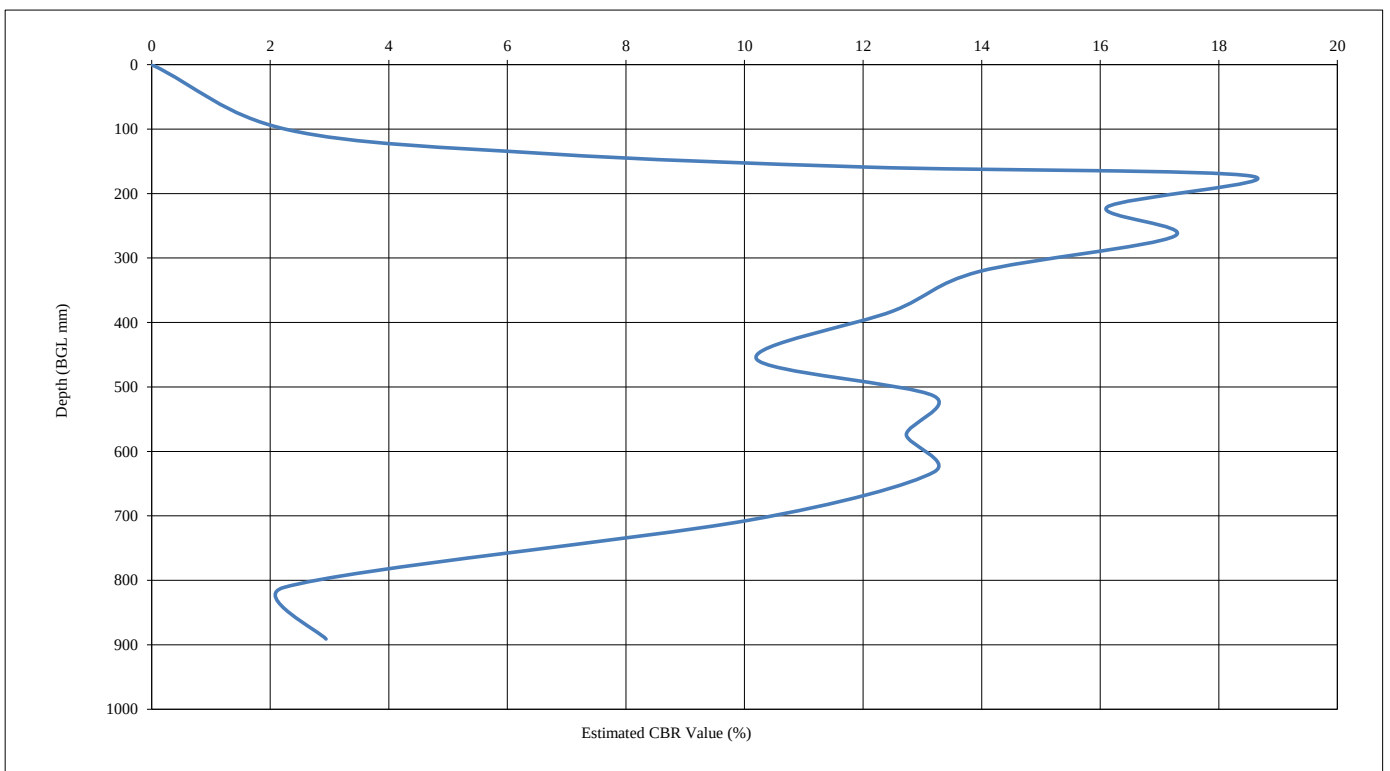


Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Northenden College	Test Date:	18/06/2020
Site Ref	13-969	Test Location:	Wythenshawe
Test No.:	DCP105	Easting:	0
Initial Depth (mm BGL):	0	Northing:	0
Final Depth (mm BGL):	891		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	266	10	10	26.60	9.42
266	456	19	9	21.11	12.02
456	632	28	9	19.56	13.04
632	891	33	5	51.80	4.66

Comments

Site Engineer:	Checked By:	Date:	Approved By:	Date:
JN	EF	22/06/2020	BH	19/07/2020

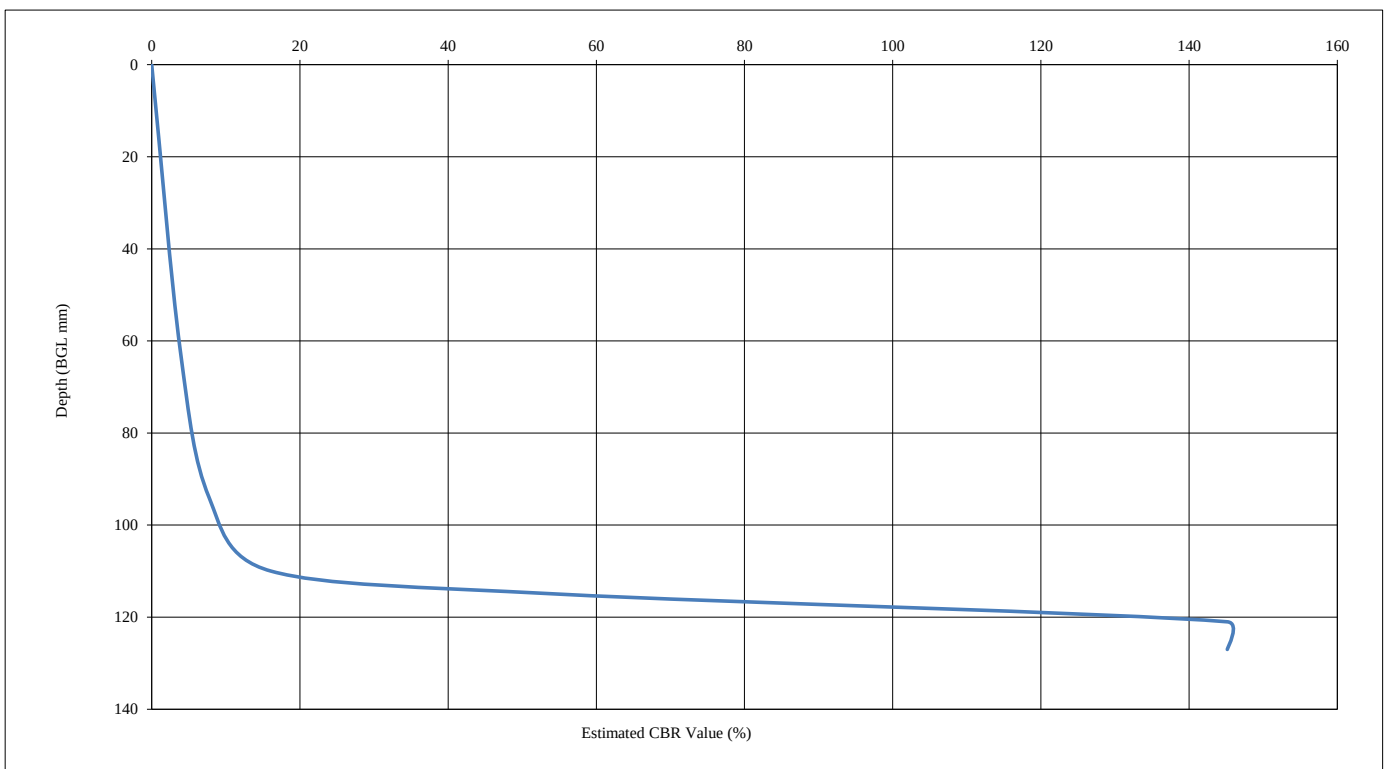


Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Northenden College	Test Date:	18/06/2020
Site Ref	13-969	Test Location:	Wythenshawe
Test No.:	DCP106	Easting:	0
Initial Depth (mm BGL):	0	Northing:	0
Final Depth (mm BGL):	127		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	110	3	4	27.50	9.09
110	127	10	7	2.43	118.22

Comments

Terminated Due to Obstruction.

Site Engineer:	Checked By:	Date:	Approved By:	Date:
JN	EF	22/06/2020	BH	19/07/2020

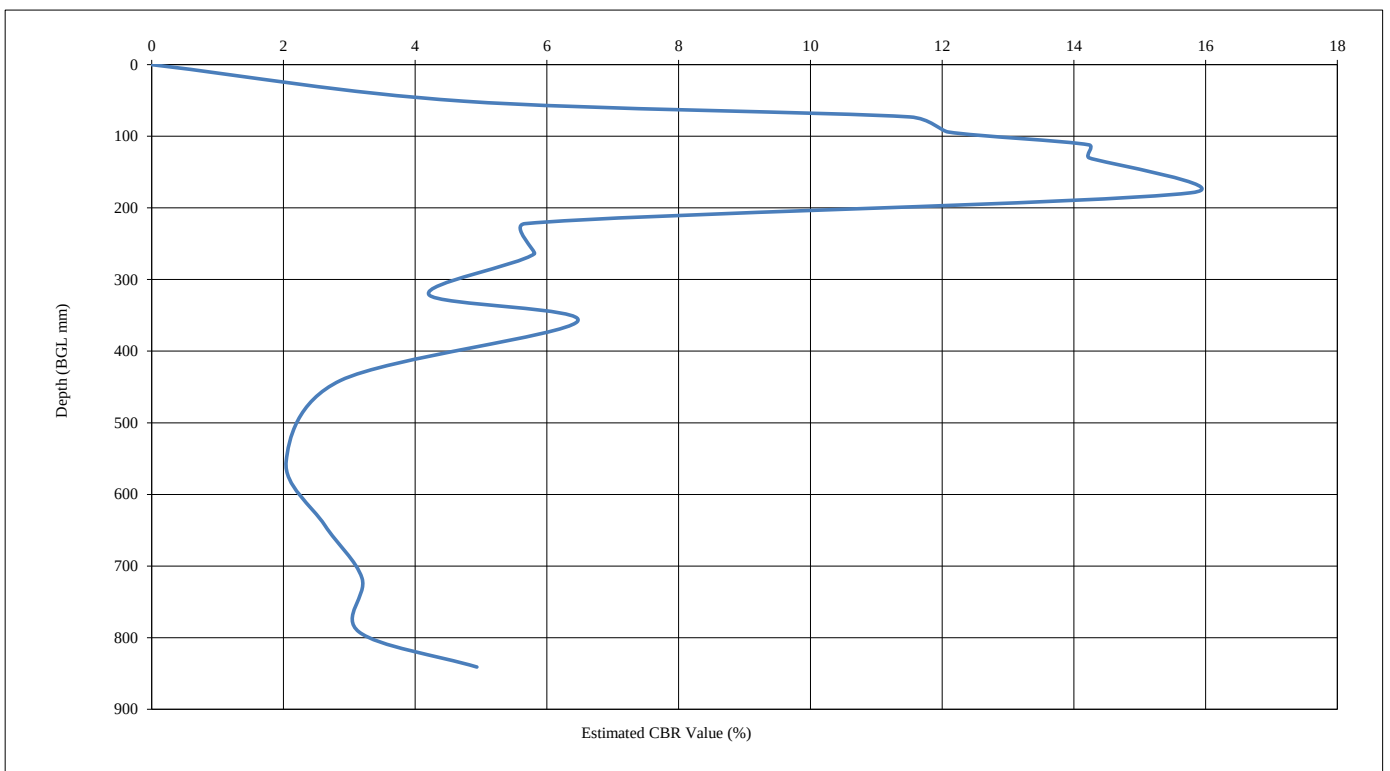


Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Northenden College	Test Date:	18/06/2020
Site Ref	13-969	Test Location:	Wythenshawe
Test No.:	DCP107	Easting:	0
Initial Depth (mm BGL):	0	Northing:	0
Final Depth (mm BGL):	841		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	179	8	8	22.38	11.31
179	359	12	4	45.00	5.40
359	841	18	6	80.33	2.93

Comments

Site Engineer:	Checked By:	Date:	Approved By:	Date:
JN	EF	22/06/2020	BH	19/07/2020

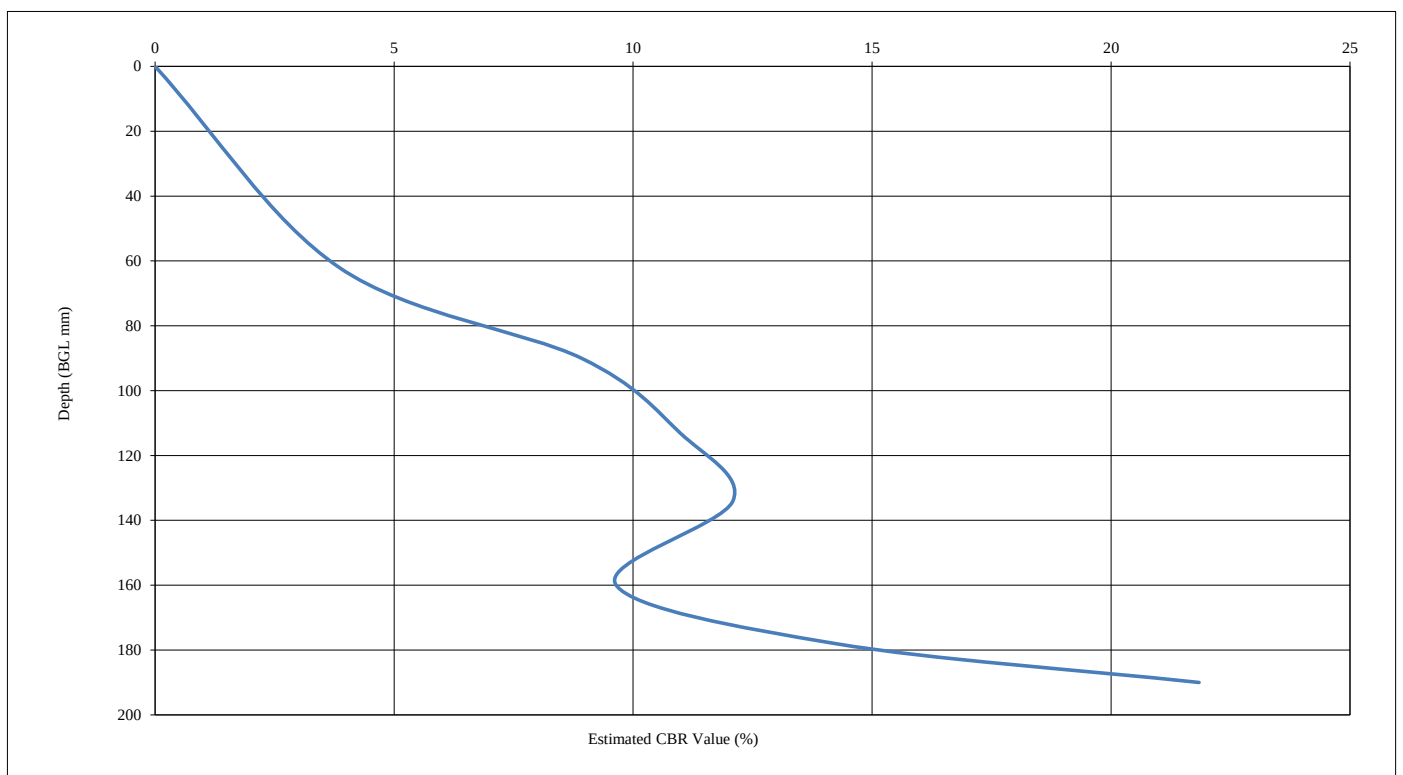


Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Northenden College	Test Date:	18/06/2020
Site Ref	13-969	Test Location:	Wythenshawe
Test No.:	DCP108	Easting:	0
Initial Depth (mm BGL):	0	Northing:	0
Final Depth (mm BGL):	190		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	90	2	4	22.50	11.24
90	160	5	3	23.33	10.82
160	190	7	2	15.00	17.25

Comments

Terminated Due to Obstruction.

Site Engineer:	Checked By:	Date:	Approved By:	Date:
JN	EF	22/06/2020	BH	19/07/2020

APPENDIX XI

SUPER HEAVY DYNAMIC PROBE CERTIFICATES

Dynamic Probe Test Results Sheet

DP No: **SHDP101**

Site: **Northenden College**

Date: **14th May 2020**

Job Number: **12-424**

Test Type: **SHDP**

Client: **Cushman and Wakefield**

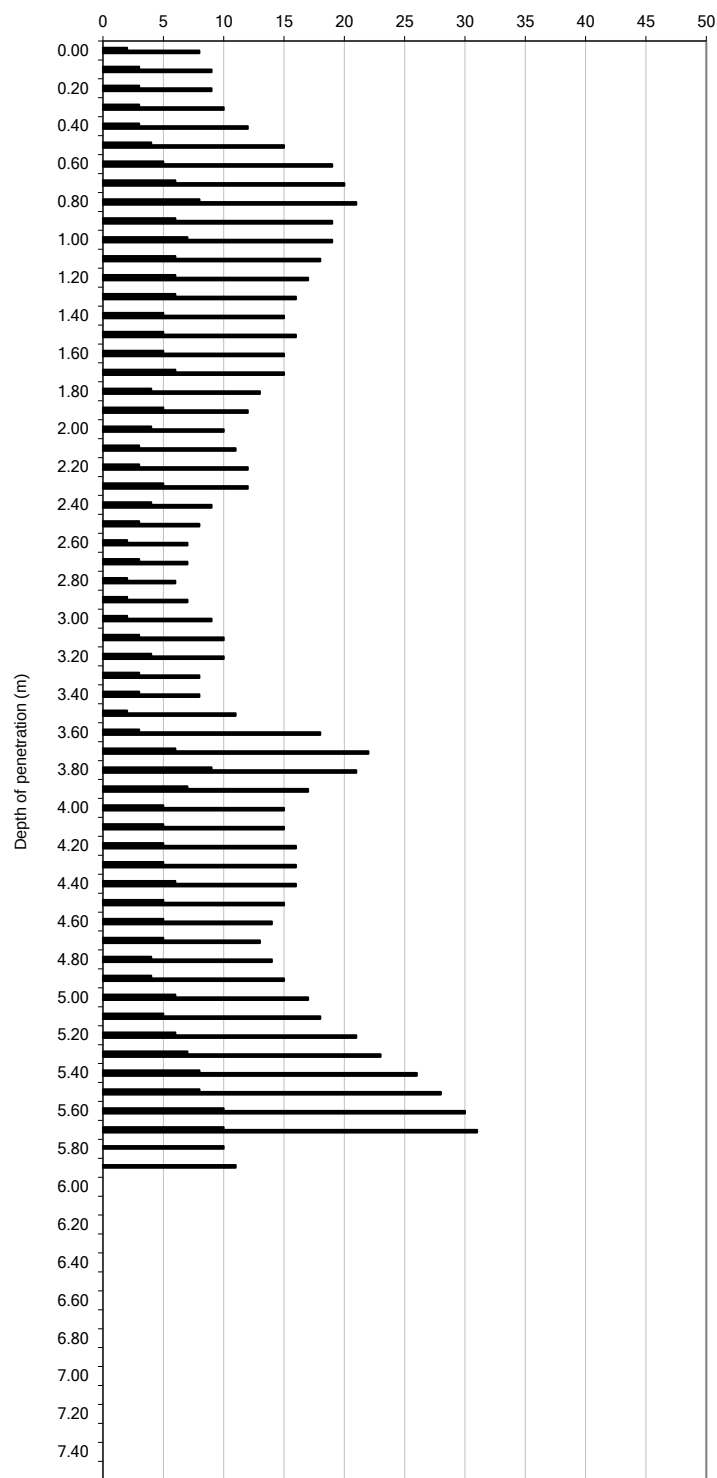
Final Depth: **6.0**

Rig Type:

Sheet 1 of 1



Depth (m)	DPN ₁₀₀	DPN ₃₀₀	SPT N *
0.00	2	8	8
0.10	3	9	9
0.20	3	9	9
0.30	3	10	10
0.40	3	12	12
0.50	4	15	15
0.60	5	19	19
0.70	6	20	20
0.80	8	21	21
0.90	6	19	19
1.00	7	19	19
1.10	6	18	18
1.20	6	17	17
1.30	6	16	16
1.40	5	15	15
1.50	5	16	16
1.60	5	15	15
1.70	6	15	15
1.80	4	13	13
1.90	5	12	12
2.00	4	10	10
2.10	3	11	11
2.20	3	12	12
2.30	5	12	12
2.40	4	9	9
2.50	3	8	8
2.60	2	7	7
2.70	3	7	7
2.80	2	6	6
2.90	2	7	7
3.00	2	9	9
3.10	3	10	10
3.20	4	10	10
3.30	3	8	8
3.40	3	8	8
3.50	2	11	11
3.60	3	18	18
3.70	6	22	22
3.80	9	21	21
3.90	7	17	17
4.00	5	15	15
4.10	5	15	15
4.20	5	16	16
4.30	5	16	16
4.40	6	16	16
4.50	5	15	15
4.60	5	14	14
4.70	5	13	13
4.80	4	14	14
4.90	4	15	15
5.00	6	17	17
5.10	5	18	18
5.20	6	21	21
5.30	7	23	23
5.40	8	26	26
5.50	8	28	28
5.60	10	30	30
5.70	10	31	31
5.80	10		
5.90	11		
6.00			
6.10			
6.20			
6.30			
6.40			
6.50			
6.60			
6.70			
6.80			
6.90			
7.00			
7.10			
7.20			
7.30			
7.40			
7.50			



DPN₁₀₀ values (shorter bars) & equivalent SPT values (longer bars)

Hammer Mass: 63.5 kg Cone Dia: 50.5mm
Drop Height: 750 mm Test by: EF

General Remarks:
 DPN₁₀₀ = Dynamic penetration resistance for 100mm penetration.
 DPN₃₀₀ = Dynamic penetration resistance for 300mm penetration (ie: sum of 3 consecutive DPN₁₀₀ values), starting at the depth given.
 * Equivalent SPT N-values (for 300mm penetration) assumed to approximate the DPN₃₀₀ values for dynamic probe "super-heavy" test (DPSH).
 For dynamic probe "heavy" test (DPH), equivalent SPT N-values estimated using the theoretical relationship $DPN_{300} = 1.5 \text{ SPT-N}$. [see Card, G.B., Roche, D.P. & Herbert, S.M., in Geol. Soc. Special Publication No 6, *Field Testing in Engineering Geology* (1990)]. SPT values are estimated and are for general guidance only.

Dynamic Probe Test Results Sheet

DP No: **SHDP102**

Site: **Northenden College**

Date: **14th May 2020**

Job Number: **13-969**

Test Type: **SHDP**

Client: **Cushman and Wakefield**

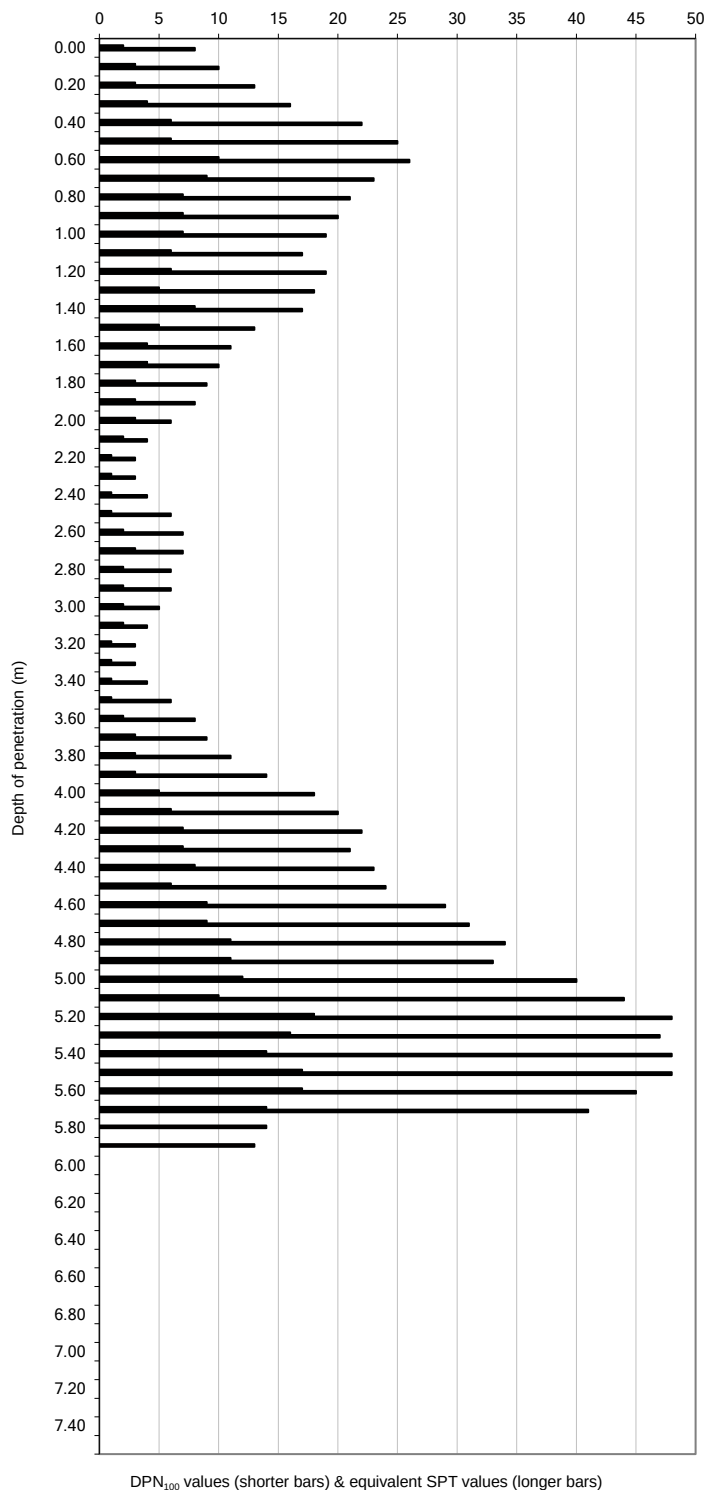
Final Depth: **6.0**

Rig Type:

Sheet 1 of 1



Depth (m)	DPN ₁₀₀	DPN ₃₀₀	SPT N *
0.00	2	8	8
0.10	3	10	10
0.20	3	13	13
0.30	4	16	16
0.40	6	22	22
0.50	6	25	25
0.60	10	26	26
0.70	9	23	23
0.80	7	21	21
0.90	7	20	20
1.00	7	19	19
1.10	6	17	17
1.20	6	19	19
1.30	5	18	18
1.40	8	17	17
1.50	5	13	13
1.60	4	11	11
1.70	4	10	10
1.80	3	9	9
1.90	3	8	8
2.00	3	6	6
2.10	2	4	4
2.20	1	3	3
2.30	1	3	3
2.40	1	4	4
2.50	1	6	6
2.60	2	7	7
2.70	3	7	7
2.80	2	6	6
2.90	2	6	6
3.00	2	5	5
3.10	2	4	4
3.20	1	3	3
3.30	1	3	3
3.40	1	4	4
3.50	1	6	6
3.60	2	8	8
3.70	3	9	9
3.80	3	11	11
3.90	3	14	14
4.00	5	18	18
4.10	6	20	20
4.20	7	22	22
4.30	7	21	21
4.40	8	23	23
4.50	6	24	24
4.60	9	29	29
4.70	9	31	31
4.80	11	34	34
4.90	11	33	33
5.00	12	40	40
5.10	10	44	44
5.20	18	48	48
5.30	16	47	47
5.40	14	48	48
5.50	17	48	48
5.60	17	45	45
5.70	14	41	41
5.80	14		
5.90	13		
6.00			
6.10			
6.20			
6.30			
6.40			
6.50			
6.60			
6.70			
6.80			
6.90			
7.00			
7.10			
7.20			
7.30			
7.40			
7.50			



Hammer Mass: 63.5 kg Cone Dia: 50.5mm
Drop Height: 750 mm Test by: EF

General Remarks:
 DPN₁₀₀ = Dynamic penetration resistance for 100mm penetration.
 DPN₃₀₀ = Dynamic penetration resistance for 300mm penetration (ie: sum of 3 consecutive DPN₁₀₀ values), starting at the depth given.
 * Equivalent SPT N-values (for 300mm penetration) assumed to approximate the DPN₃₀₀ values for dynamic probe "super-heavy" test (DPSH).
 For dynamic probe "heavy" test (DPH), equivalent SPT N-values estimated using the theoretical relationship $DPN_{300} = 1.5 \text{ SPT-N}$. (see Card, G.B., Roche, D.P. & Herbert, S.M., in Geol. Soc. Special Publication No 6, *Field Testing in Engineering Geology* (1990)). SPT values are estimated and are for general guidance only.

Dynamic Probe Test Results Sheet

DP No: **SHDP103**

Site: **Northenden College**

Date: 14th May 2020

Job Number: **13-969**

Test Type: SHDP

Client: **Cushman and Wakefield**

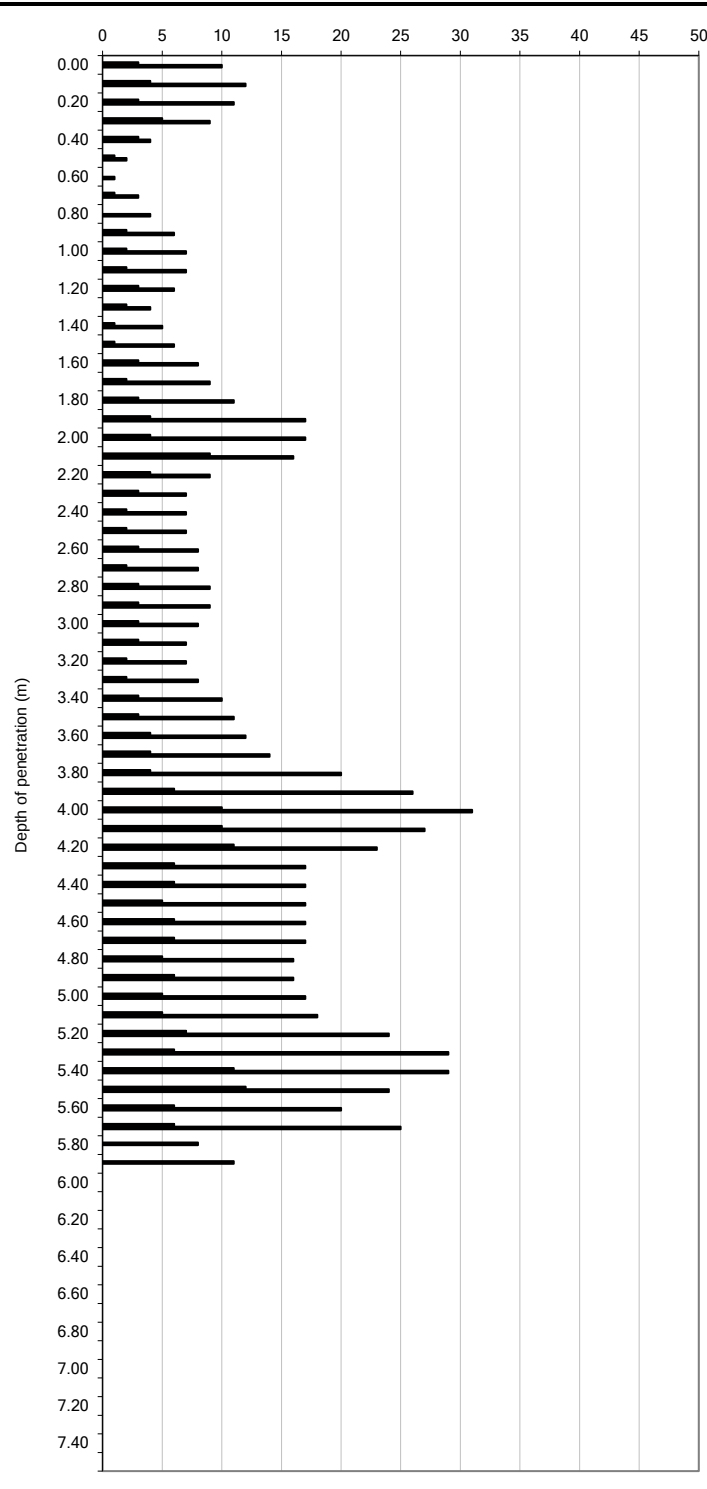
Final Depth: 6.0

Rig Type:

Sheet 1 of 1



Penetration Test Results			
Depth (m)	DPN ₁₀₀	DPN ₃₀₀	SPT N *
0.00	3	10	10
0.10	4	12	12
0.20	3	11	11
0.30	5	9	9
0.40	3	4	4
0.50	1	2	2
0.60	0	1	1
0.70	1	3	3
0.80	0	4	4
0.90	2	6	6
1.00	2	7	7
1.10	2	7	7
1.20	3	6	6
1.30	2	4	4
1.40	1	5	5
1.50	1	6	6
1.60	3	8	8
1.70	2	9	9
1.80	3	11	11
1.90	4	17	17
2.00	4	17	17
2.10	9	16	16
2.20	4	9	9
2.30	3	7	7
2.40	2	7	7
2.50	2	7	7
2.60	3	8	8
2.70	2	8	8
2.80	3	9	9
2.90	3	9	9
3.00	3	8	8
3.10	3	7	7
3.20	2	7	7
3.30	2	8	8
3.40	3	10	10
3.50	3	11	11
3.60	4	12	12
3.70	4	14	14
3.80	4	20	20
3.90	6	26	26
4.00	10	31	31
4.10	10	27	27
4.20	11	23	23
4.30	6	17	17
4.40	6	17	17
4.50	5	17	17
4.60	6	17	17
4.70	6	17	17
4.80	5	16	16
4.90	6	16	16
5.00	5	17	17
5.10	5	18	18
5.20	7	24	24
5.30	6	29	29
5.40	11	29	29
5.50	12	24	24
5.60	6	20	20
5.70	6	25	25
5.80	8		
5.90	11		
6.00			
6.10			
6.20			
6.30			
6.40			
6.50			
6.60			
6.70			
6.80			
6.90			
7.00			
7.10			
7.20			
7.30			
7.40			
7.50			



Hammer Mass: 63.5 kg Cone Dia: 50.5mm
Drop Height: 750 mm Test by: EF

General Remarks:
 DPN₁₀₀ = Dynamic penetration resistance for 100mm penetration.
 DPN₃₀₀ = Dynamic penetration resistance for 300mm penetration (ie: sum of 3 consecutive DPN₁₀₀ values), starting at the depth given.
 Equivalent SPT N-values (for 300mm penetration) assumed to approximate the DPN₃₀₀ values for dynamic probe 'super-heavy' test (DPSH).
 For dynamic probe 'heavy' test (DPH), equivalent SPT N-values estimated using the theoretical relationship DPN₃₀₀ = 1.5 SPT-N, [see Card,G.B., Roche,D.P. & Herbert,S.M., in Geol. Soc. Special Publication No 6, *Field Testing in Engineering Geology* (1990)]. SPT values are estimated and are for general guidance only.

Dynamic Probe Test Results Sheet

DP No: **SHDP104**

Site: **Northenden College**

Date: **14th May 2020**

Job Number: **13-969**

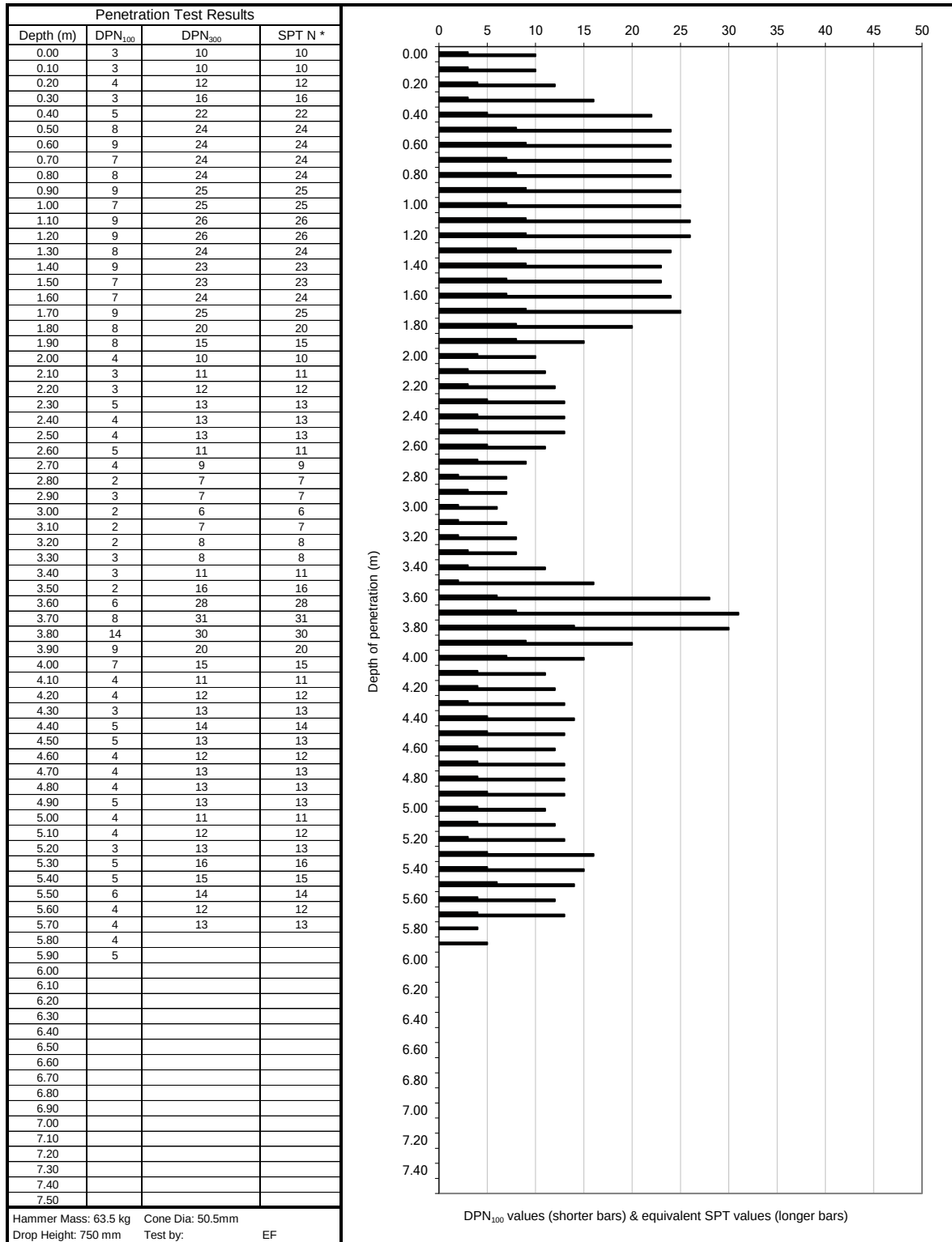
Test Type: **SHDP**

Client: **Cushman and Wakefield**

Final Depth: **6.0**

Rig Type:

Sheet 1 of 1



Hammer Mass: 63.5 kg Cone Dia: 50.5mm
Drop Height: 750 mm Test by: EF

General Remarks:

DPN₁₀₀ = Dynamic penetration resistance for 100mm penetration.
DPN₃₀₀ = Dynamic penetration resistance for 300mm penetration (ie: sum of 3 consecutive DPN₁₀₀ values), starting at the depth given.
Equivalent SPT N-values (for 300mm penetration) assumed to approximate the DPN₃₀₀ values for dynamic probe "super-heavy" test (DPSH).
For dynamic probe "heavy" test (DPH), equivalent SPT N-values estimated using the theoretical relationship DPN₃₀₀ = 1.5 SPT N, [see Card, G.B., Roche, D.P. & Herbert, S.M., in Geol. Soc. Special Publication No 6, *Field Testing in Engineering Geology* (1990)]. SPT values are estimated and are for general guidance only.

Dynamic Probe Test Results Sheet

DP No: **SHDP105**

Site: **Northenden College**

Date: **14th May 2020**

Job Number: **13-969**

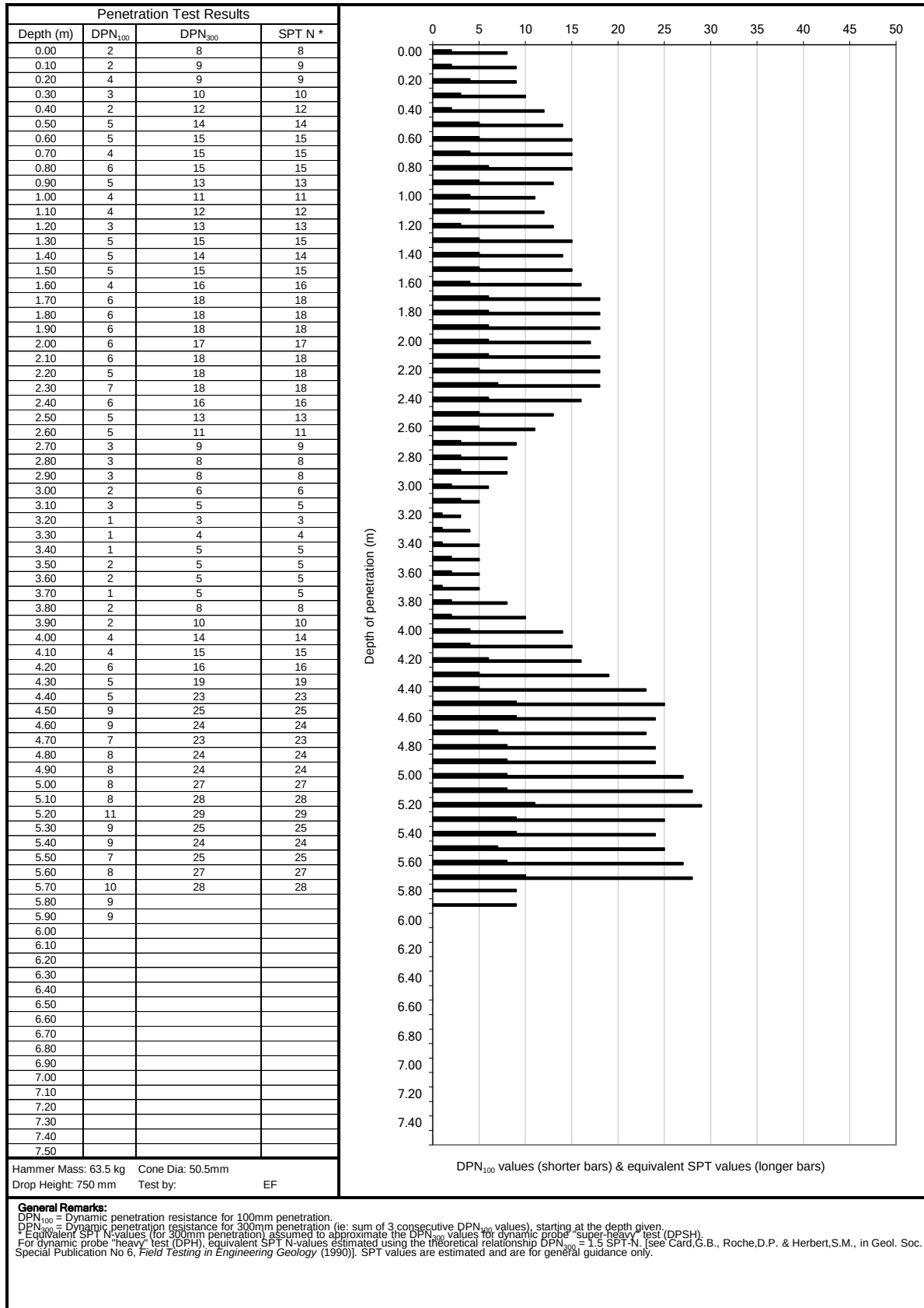
Test Type: **SHDP**

Client: **Cushman and Wakefield**

Final Depth: **6.0**

Rig Type:

Sheet 1 of 1



Dynamic Probe Test Results Sheet

DP No: **SHDP106**

Site: **Northenden College**

Date: **14th May 2020**

Job Number: **13-969**

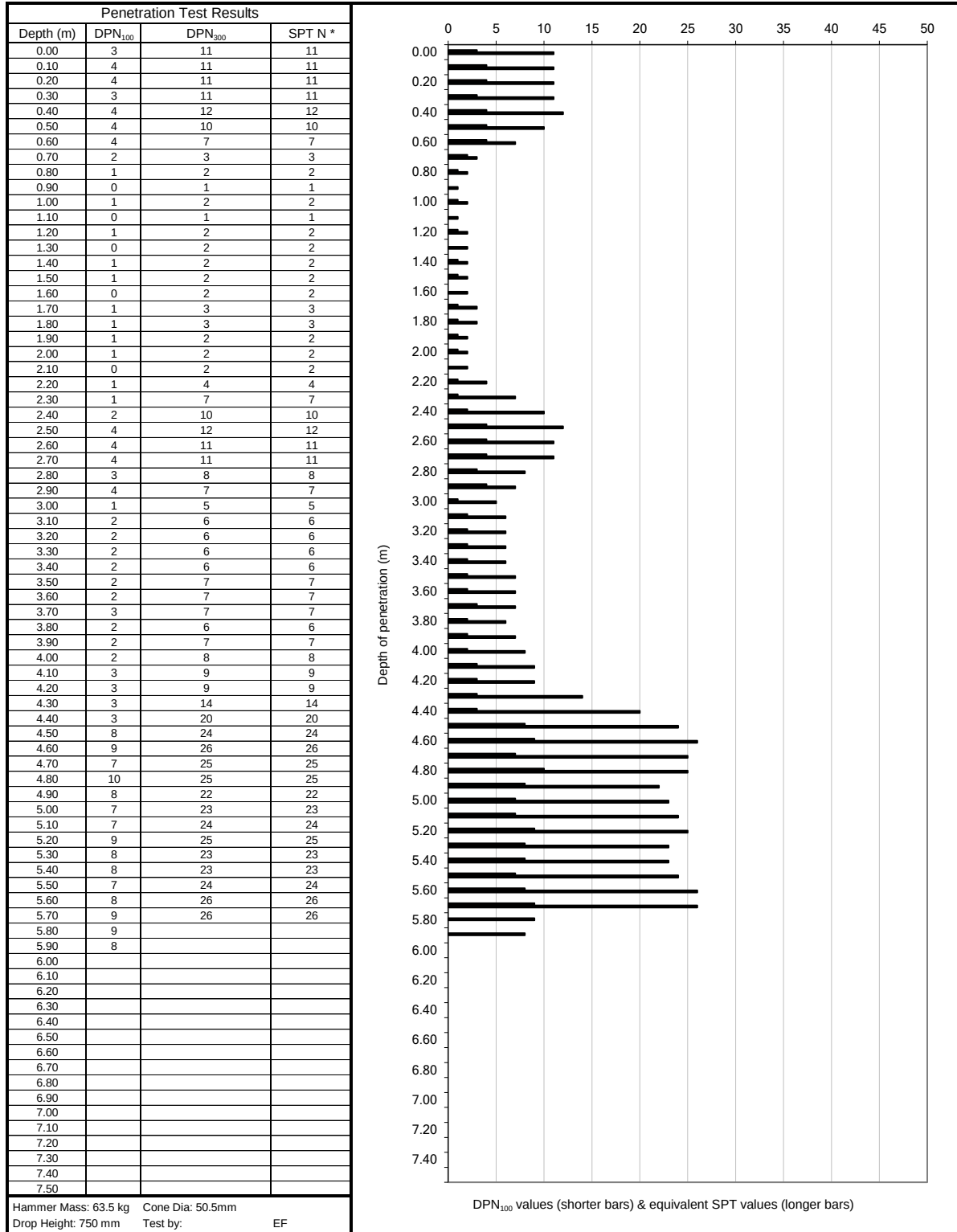
Test Type: **SHDP**

Client: **Cushman and Wakefield**

Final Depth: **6.0**

Rig Type:

Sheet 1 of 1



Hammer Mass: 63.5 kg Cone Dia: 50.5mm
Drop Height: 750 mm Test by: EF

General Remarks:
DPN₁₀₀ = Dynamic penetration resistance for 100mm penetration.
DPN₃₀₀ = Dynamic penetration resistance for 300mm penetration (ie: sum of 3 consecutive DPN₁₀₀ values), starting at the depth given.
Equivalent SPT N-values (for 300mm penetration) assumed to approximate the DPN₃₀₀ values for dynamic probe 'super-heavy' test (DPSH).
For dynamic probe 'heavy' test (DPH), equivalent SPT N-values estimated using the theoretical relationship DPN₃₀₀ = 1.5 SPT-N, [see Card, G.B., Roche, D.P. & Herbert, S.M., in Geol. Soc. Special Publication No 6, *Field Testing in Engineering Geology* (1990)]. SPT values are estimated and are for general guidance only.

Dynamic Probe Test Results Sheet

DP No: **SHDP107**

Site: **Northenden College**

Date: **14th May 2020**

Job Number: **13-969**

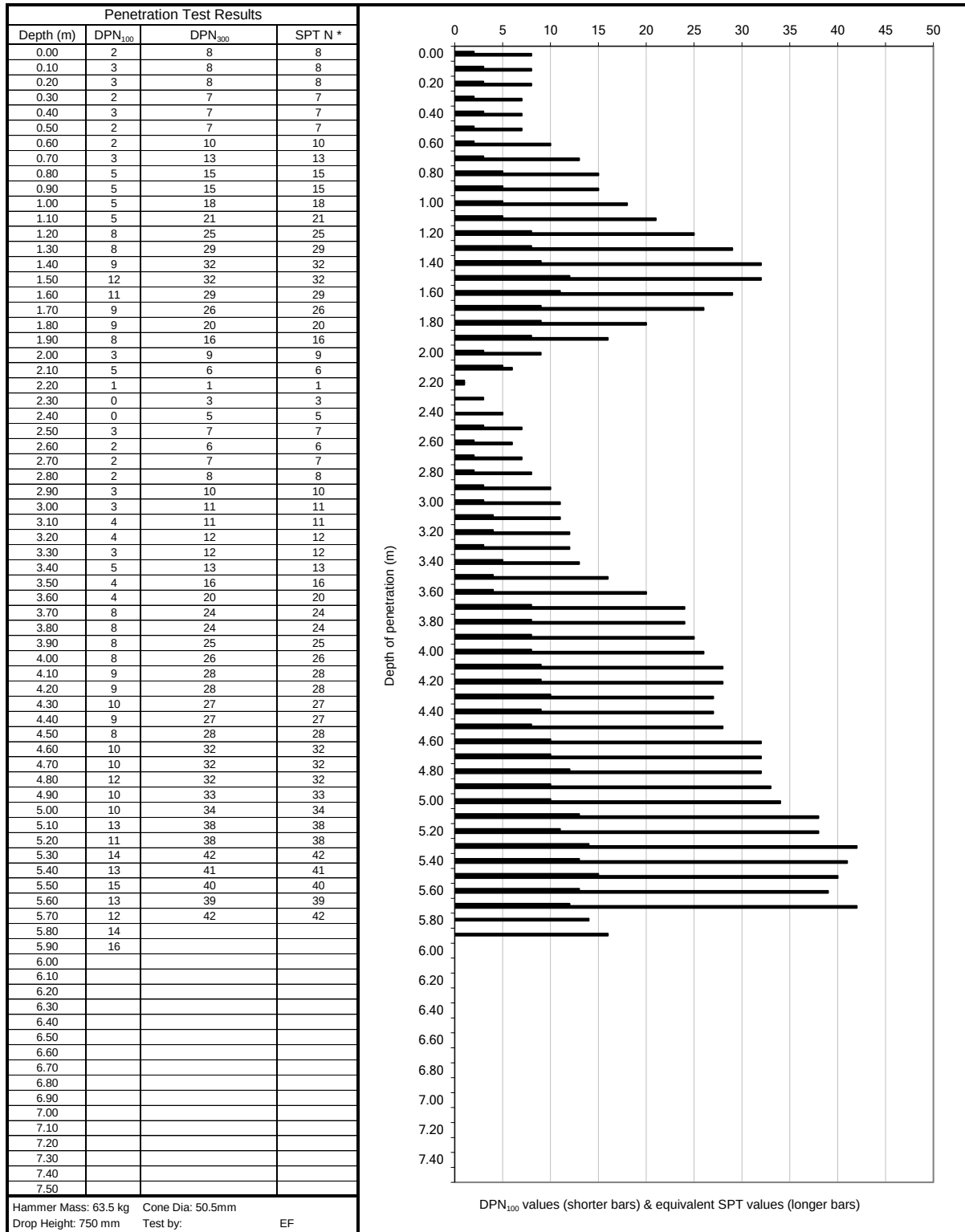
Test Type: **SHDP**

Client: **Cushman and Wakefield**

Final Depth: **6.0**

Rig Type:

Sheet 1 of 1



Hammer Mass: 63.5 kg Cone Dia: 50.5mm
Drop Height: 750 mm Test by: EF

General Remarks:

DPN₁₀₀ = Dynamic penetration resistance for 100mm penetration.
DPN₃₀₀ = Dynamic penetration resistance for 300mm penetration (ie: sum of 3 consecutive DPN₁₀₀ values), starting at the depth given.
Equivalent SPT N-values (for 300mm penetration) assumed to approximate the DPN₃₀₀ values for dynamic probe 'super-heavy' test (DPSH).
For dynamic probe 'heavy' test (DPH), equivalent SPT N-values estimated using the theoretical relationship DPN₃₀₀ = 1.5 SPT-N, [see Card, G.B., Roche, D.P. & Herbert, S.M., in Geol. Soc. Special Publication No 6, *Field Testing in Engineering Geology* (1990)]. SPT values are estimated and are for general guidance only.

Dynamic Probe Test Results Sheet

DP No: **SHDP108**

Site: **Northenden College**

Date: **14th May 2020**

Job Number: **13-969**

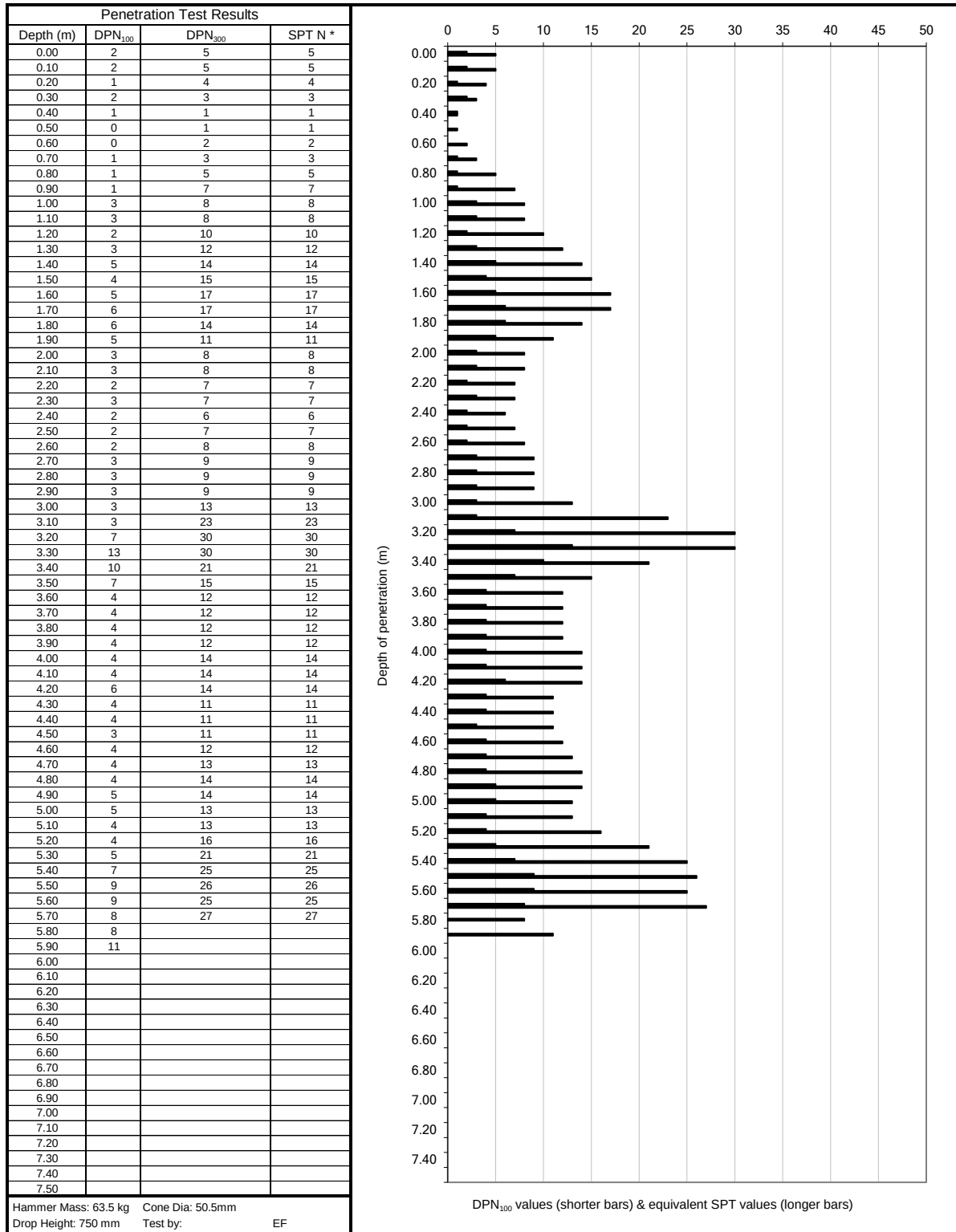
Test Type: **SHDP**

Client: **Cushman and Wakefield**

Final Depth: **6.0**

Rig Type:

Sheet 1 of 1



Hammer Mass: 63.5 kg Cone Dia: 50.5mm
Drop Height: 750 mm Test by: EF

General Remarks:

DPN₁₀₀ = Dynamic penetration resistance for 100mm penetration.
DPN₃₀₀ = Dynamic penetration resistance for 300mm penetration (ie: sum of 3 consecutive DPN₁₀₀ values), starting at the depth given.
Equivalent SPT N-values (for 300mm penetration) assumed to approximate the DPN₃₀₀ values for dynamic probe "super-heavy" test (DPSH).
For dynamic probe "heavy" test (DPH), equivalent SPT N-values estimated using the theoretical relationship DPN₃₀₀ = 1.5 SPT-N, [see Card, G.B., Roche, D.P. & Herbert, S.M., in Geol. Soc. Special Publication No 6, *Field Testing in Engineering Geology* (1990)]. SPT values are estimated and are for general guidance only.

Dynamic Probe Test Results Sheet

DP No: **SHDP109**

Site: **Northenden College**

Date: **14th May 2020**

Job Number: **13-969**

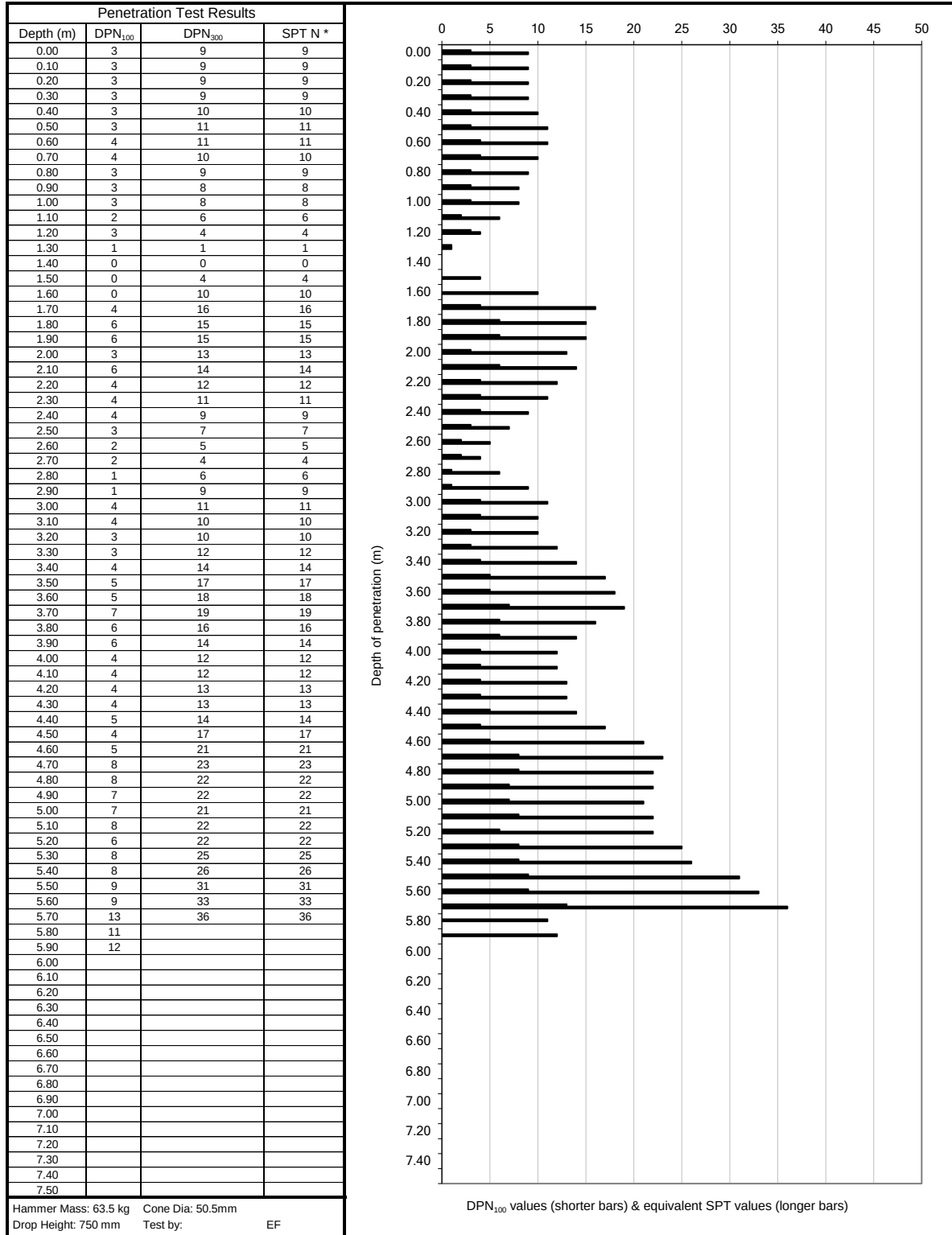
Test Type: **SHDP**

Client: **Cushman and Wakefield**

Final Depth: **6.0**

Rig Type:

Sheet 1 of 1



Hammer Mass: 63.5 kg Cone Dia: 50.5mm
Drop Height: 750 mm Test by: EF

General Remarks:
DPN₁₀₀ = Dynamic penetration resistance for 100mm penetration.
DPN₃₀₀ = Dynamic penetration resistance for 300mm penetration (ie: sum of 3 consecutive DPN₁₀₀ values), starting at the depth given.
Equivalent SPT N-values (for 300mm penetration) assumed to approximate the DPN₃₀₀ values for dynamic probe "super-heavy" test (DPSH).
For dynamic probe "heavy" test (DPH), equivalent SPT N-values estimated using the theoretical relationship DPN₃₀₀ = 1.5 SPT-N, [see Card,G.B., Roche,D.P. & Herbert,S.M., in Geol. Soc. Special Publication No 6, *Field Testing in Engineering Geology* (1990)]. SPT values are estimated and are for general guidance only.

Dynamic Probe Test Results Sheet

DP No: **SHDP110**

Site: **Northenden College**

Date: **14th May 2020**

Job Number: **13-969**

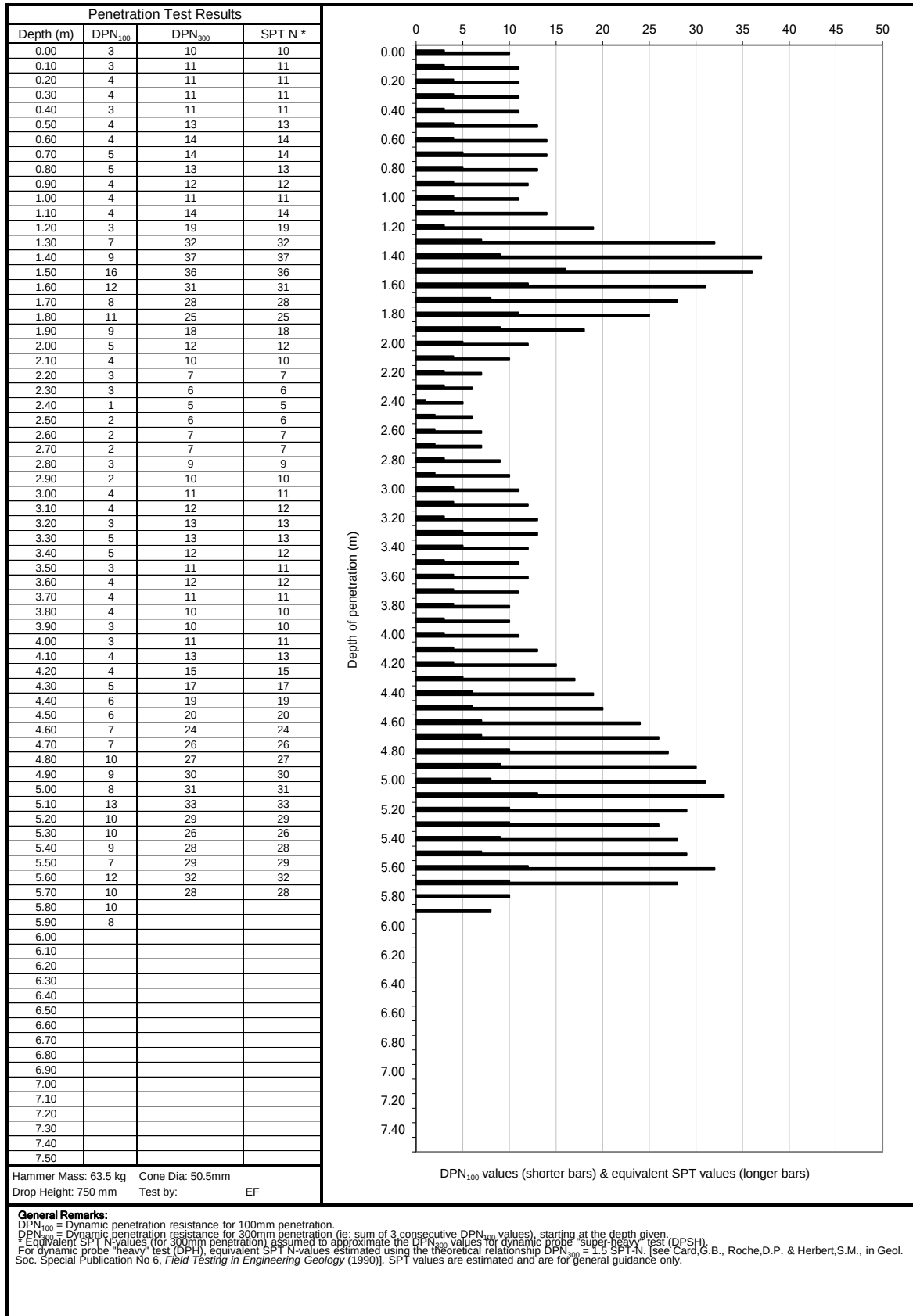
Test Type: **SHDP**

Client: **Cushman and Wakefield**

Final Depth: **6.0**

Rig Type:

Sheet 1 of 1



Dynamic Probe Test Results Sheet

DP No: **SHDP111**

Site: **Northenden College**

Date: **14th May 2020**

Job Number: **13-969**

Test Type: **SHDP**

Client: **Cushman and Wakefield**

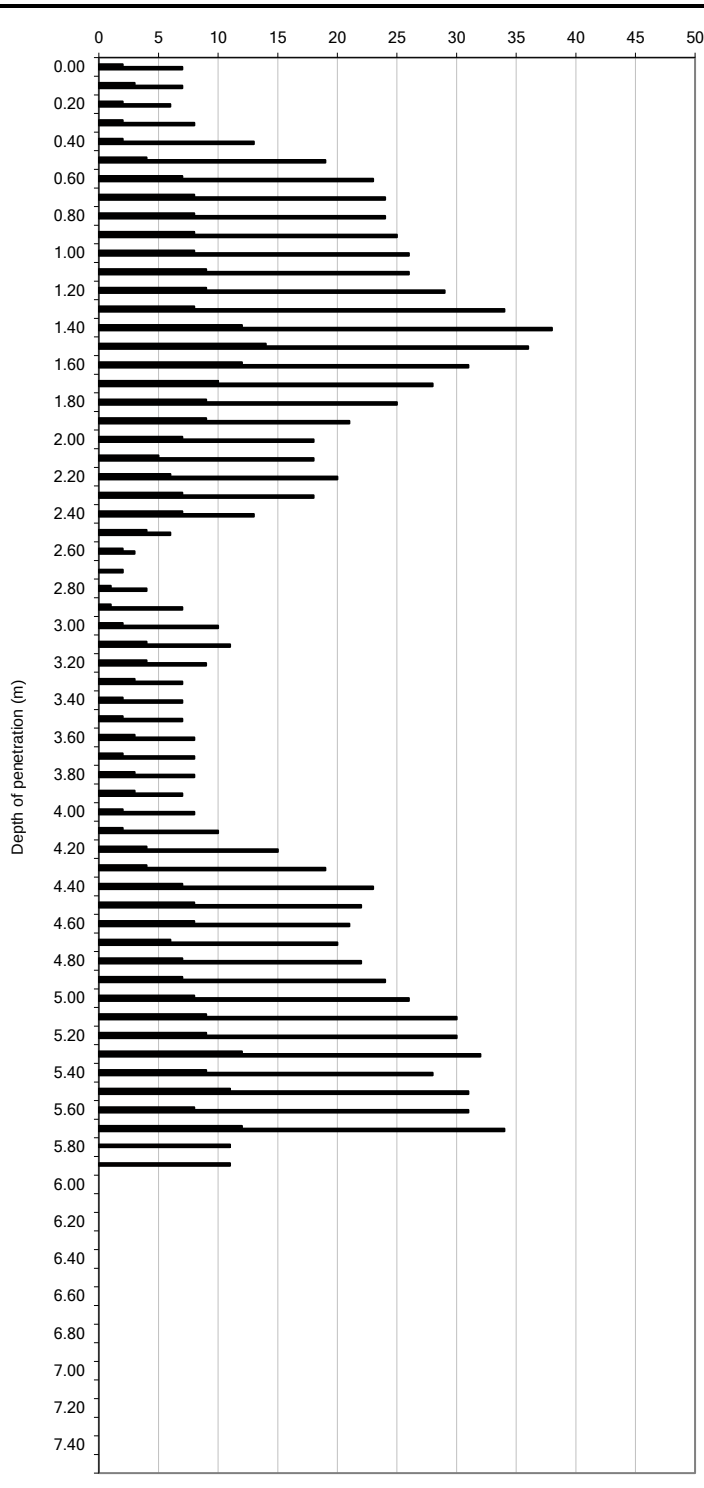
Final Depth: **6.0**

Rig Type:

Sheet 1 of 1



Penetration Test Results			
Depth (m)	DPN ₁₀₀	DPN ₃₀₀	SPT N *
0.00	2	7	7
0.10	3	7	7
0.20	2	6	6
0.30	2	8	8
0.40	2	13	13
0.50	4	19	19
0.60	7	23	23
0.70	8	24	24
0.80	8	24	24
0.90	8	25	25
1.00	8	26	26
1.10	9	26	26
1.20	9	29	29
1.30	8	34	34
1.40	12	38	38
1.50	14	36	36
1.60	12	31	31
1.70	10	28	28
1.80	9	25	25
1.90	9	21	21
2.00	7	18	18
2.10	5	18	18
2.20	6	20	20
2.30	7	18	18
2.40	7	13	13
2.50	4	6	6
2.60	2	3	3
2.70	0	2	2
2.80	1	4	4
2.90	1	7	7
3.00	2	10	10
3.10	4	11	11
3.20	4	9	9
3.30	3	7	7
3.40	2	7	7
3.50	2	7	7
3.60	3	8	8
3.70	2	8	8
3.80	3	8	8
3.90	3	7	7
4.00	2	8	8
4.10	2	10	10
4.20	4	15	15
4.30	4	19	19
4.40	7	23	23
4.50	8	22	22
4.60	8	21	21
4.70	6	20	20
4.80	7	22	22
4.90	7	24	24
5.00	8	26	26
5.10	9	30	30
5.20	9	30	30
5.30	12	32	32
5.40	9	28	28
5.50	11	31	31
5.60	8	31	31
5.70	12	34	34
5.80	11		
5.90	11		
6.00			
6.10			
6.20			
6.30			
6.40			
6.50			
6.60			
6.70			
6.80			
6.90			
7.00			
7.10			
7.20			
7.30			
7.40			
7.50			



DPN₁₀₀ values (shorter bars) & equivalent SPT values (longer bars)

Hammer Mass: 63.5 kg Cone Dia: 50.5mm
Drop Height: 750 mm Test by: EF

General Remarks:

DPN₁₀₀ = Dynamic penetration resistance for 100mm penetration.
DPN₃₀₀ = Dynamic penetration resistance for 300mm penetration (ie: sum of 3 consecutive DPN₁₀₀ values), starting at the depth given.
Equivalent SPT N-values (for 300mm penetration) assumed to approximate the DPN₃₀₀ values for dynamic probe "super-heavy" test (DPSH).
For dynamic probe "heavy" test (DPH), equivalent SPT N-values estimated using the theoretical relationship DPN₃₀₀ = 1.5 SPT-N, (see Card,G.B., Roche,D.P. & Herbert,S.M., in Geol. Soc. Special Publication No 6, *Field Testing in Engineering Geology* (1990)). SPT values are estimated and are for general guidance only.

Dynamic Probe Test Results Sheet

DP No: **SHDP112**

Site: **Northenden College**

Date: **14th May 2020**

Job Number: **13-969**

Test Type: **SHDP**

Client: **Cushman and Wakefield**

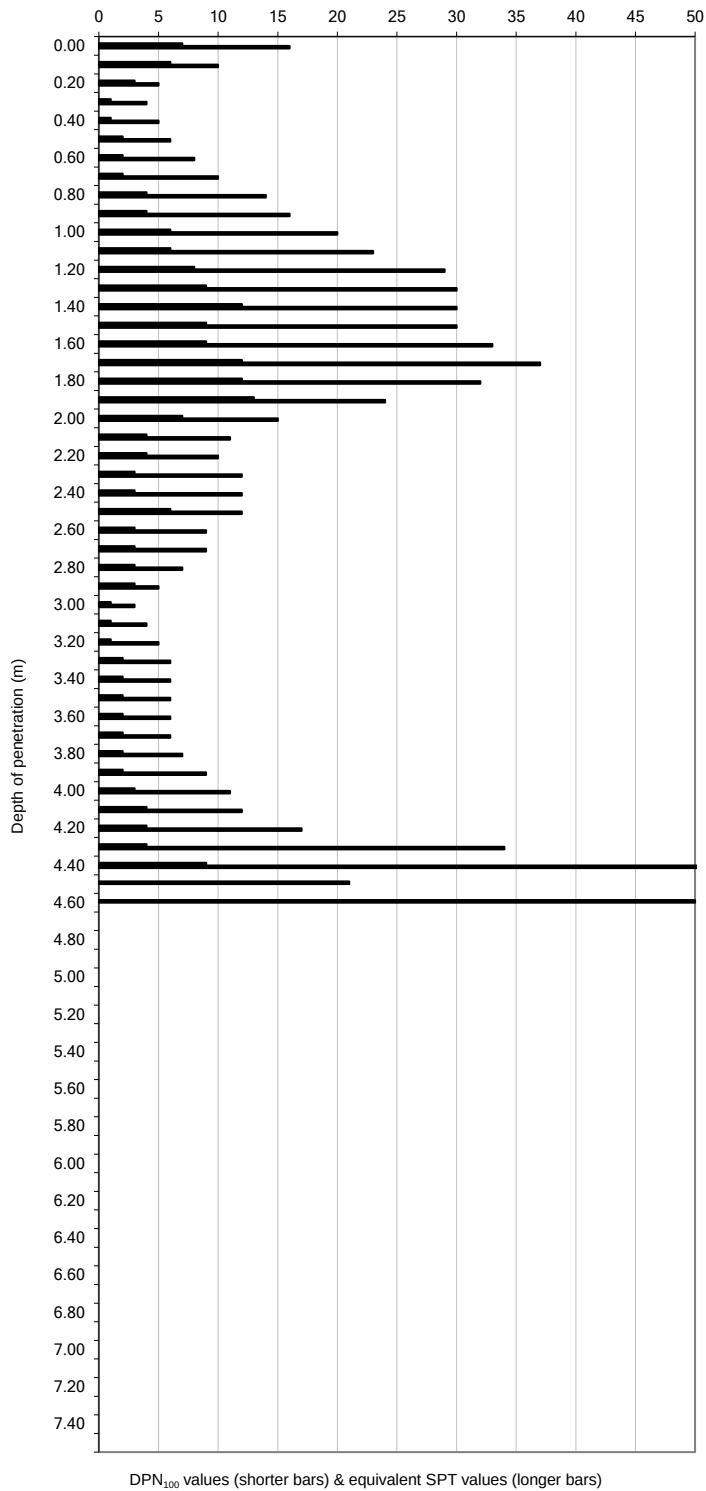
Final Depth: **6.0**

Rig Type:

Sheet 1 of 1



Depth (m)	DPN ₁₀₀	DPN ₃₀₀	SPT N *
0.00	7	16	16
0.10	6	10	10
0.20	3	5	5
0.30	1	4	4
0.40	1	5	5
0.50	2	6	6
0.60	2	8	8
0.70	2	10	10
0.80	4	14	14
0.90	4	16	16
1.00	6	20	20
1.10	6	23	23
1.20	8	29	29
1.30	9	30	30
1.40	12	30	30
1.50	9	30	30
1.60	9	33	33
1.70	12	37	37
1.80	12	32	32
1.90	13	24	24
2.00	7	15	15
2.10	4	11	11
2.20	4	10	10
2.30	3	12	12
2.40	3	12	12
2.50	6	12	12
2.60	3	9	9
2.70	3	9	9
2.80	3	7	7
2.90	3	5	5
3.00	1	3	3
3.10	1	4	4
3.20	1	5	5
3.30	2	6	6
3.40	2	6	6
3.50	2	6	6
3.60	2	6	6
3.70	2	6	6
3.80	2	7	7
3.90	2	9	9
4.00	3	11	11
4.10	4	12	12
4.20	4	17	17
4.30	4	34	34
4.40	9	80	80
4.50	21		
4.60	50		
4.70			
4.80			
4.90			
5.00			
5.10			
5.20			
5.30			
5.40			
5.50			
5.60			
5.70			
5.80			
5.90			
6.00			
6.10			
6.20			
6.30			
6.40			
6.50			
6.60			
6.70			
6.80			
6.90			
7.00			
7.10			
7.20			
7.30			
7.40			
7.50			



Hammer Mass: 63.5 kg Cone Dia: 50.5mm
Drop Height: 750 mm Test by: EF

General Remarks:

DPN₁₀₀ = Dynamic penetration resistance for 100mm penetration.
DPN₃₀₀ = Dynamic penetration resistance for 300mm penetration (ie: sum of 3 consecutive DPN₁₀₀ values), starting at the depth given.
Equivalent SPT N-values (for 300mm penetration) assumed to approximate the DPN₃₀₀ values for dynamic probe "super-heavy" test (DPSH).
For dynamic probe "heavy" test (DPH), equivalent SPT N-values estimated using the theoretical relationship DPN₃₀₀ = 1.5 SPT-N, [see Card, G.B., Roche, D.P. & Herbert, S.M., in Geol. Soc. Special Publication No 6, *Field Testing in Engineering Geology* (1990)]. SPT values are estimated and are for general guidance only.

Dynamic Probe Test Results Sheet

DP No: **SHDP113**

Site: **Northenden College**

Date: **14th May 2020**

Job Number: **13-969**

Test Type: **SHDP**

Client: **Cushman and Wakefield**

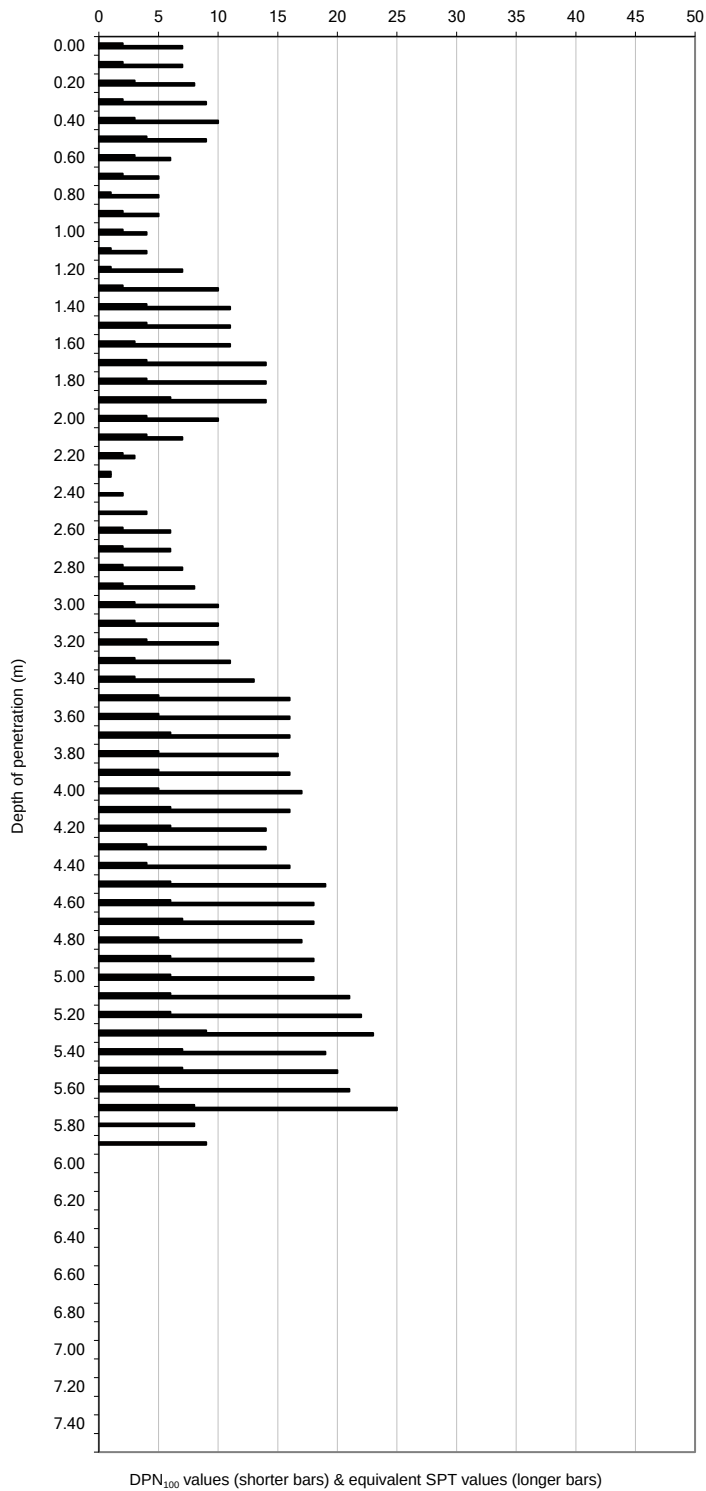
Final Depth: **6.0**

Rig Type:

Sheet 1 of 1



Penetration Test Results			
Depth (m)	DPN ₁₀₀	DPN ₃₀₀	SPT N *
0.00	2	7	7
0.10	2	7	7
0.20	3	8	8
0.30	2	9	9
0.40	3	10	10
0.50	4	9	9
0.60	3	6	6
0.70	2	5	5
0.80	1	5	5
0.90	2	5	5
1.00	2	4	4
1.10	1	4	4
1.20	1	7	7
1.30	2	10	10
1.40	4	11	11
1.50	4	11	11
1.60	3	11	11
1.70	4	14	14
1.80	4	14	14
1.90	6	14	14
2.00	4	10	10
2.10	4	7	7
2.20	2	3	3
2.30	1	1	1
2.40	0	2	2
2.50	0	4	4
2.60	2	6	6
2.70	2	6	6
2.80	2	7	7
2.90	2	8	8
3.00	3	10	10
3.10	3	10	10
3.20	4	10	10
3.30	3	11	11
3.40	3	13	13
3.50	5	16	16
3.60	5	16	16
3.70	6	16	16
3.80	5	15	15
3.90	5	16	16
4.00	5	17	17
4.10	6	16	16
4.20	6	14	14
4.30	4	14	14
4.40	4	16	16
4.50	6	19	19
4.60	6	18	18
4.70	7	18	18
4.80	5	17	17
4.90	6	18	18
5.00	6	18	18
5.10	6	21	21
5.20	6	22	22
5.30	9	23	23
5.40	7	19	19
5.50	7	20	20
5.60	5	21	21
5.70	8	25	25
5.80	8		
5.90	9		
6.00			
6.10			
6.20			
6.30			
6.40			
6.50			
6.60			
6.70			
6.80			
6.90			
7.00			
7.10			
7.20			
7.30			
7.40			
7.50			



Hammer Mass: 63.5 kg Cone Dia: 50.5mm
Drop Height: 750 mm Test by: EF

General Remarks:

DPN₁₀₀ = Dynamic penetration resistance for 100mm penetration.
DPN₃₀₀ = Dynamic penetration resistance for 300mm penetration (ie: sum of 3 consecutive DPN₁₀₀ values), starting at the depth given.
Equivalent SPT N-values (for 300mm penetration) assumed to approximate the DPN₃₀₀ values for dynamic probe "super-heavy" test (DPSH).
For dynamic probe "heavy" test (DPH), equivalent SPT N-values estimated using the theoretical relationship DPN₃₀₀ = 1.5 SPT-N, [see Card, G.B., Roche, D.P. & Herbert, S.M., in Geol. Soc. Special Publication No 6, *Field Testing in Engineering Geology* (1990)]. SPT values are estimated and are for general guidance only.

Dynamic Probe Test Results Sheet

DP No: **SHDP114**

Site: **Northenden College**

Date: 15th May 2020

Job Number: **13-969**

Test Type: SHDP

Client: **Cushman and Wakefield**

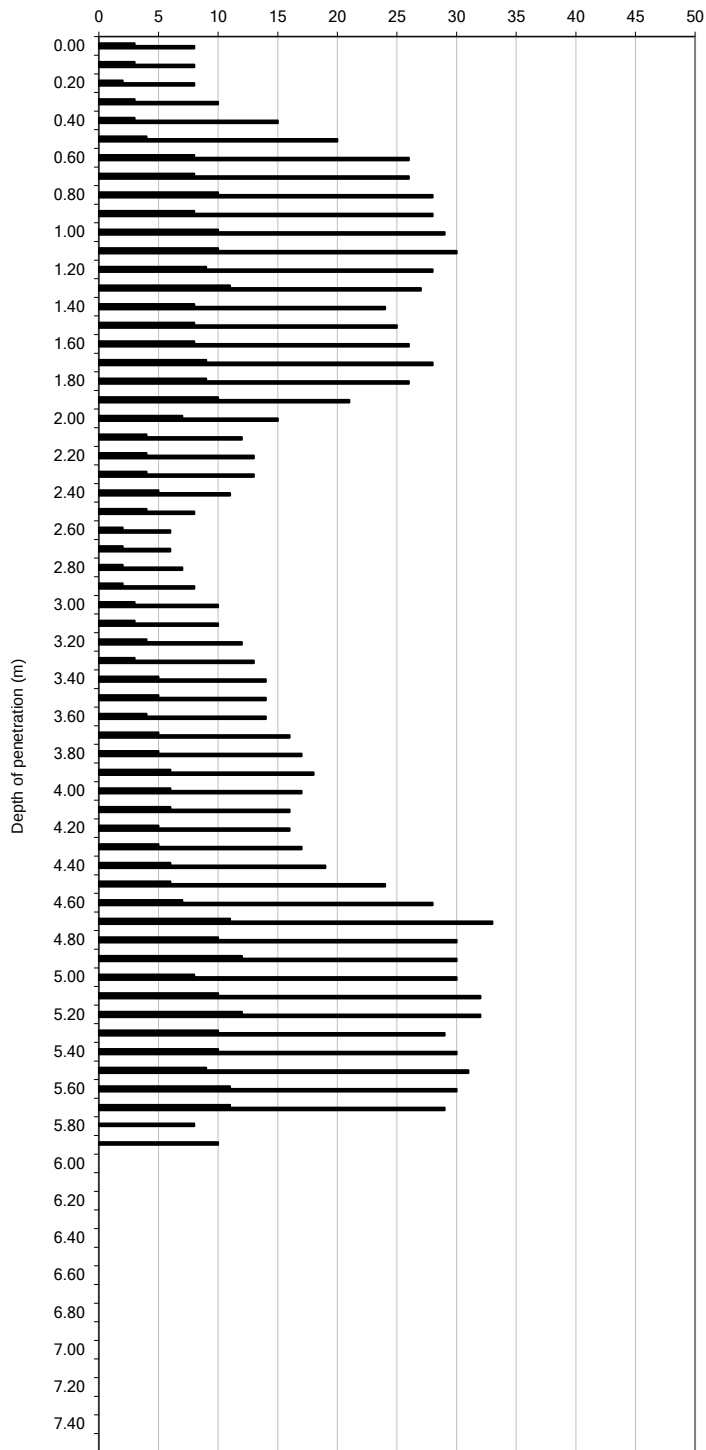
Final Depth: 6.0

Rig Type:

Sheet 1 of 1



Penetration Test Results			
Depth (m)	DPN ₁₀₀	DPN ₃₀₀	SPT N *
0.00	3	8	8
0.10	3	8	8
0.20	2	8	8
0.30	3	10	10
0.40	3	15	15
0.50	4	20	20
0.60	8	26	26
0.70	8	26	26
0.80	10	28	28
0.90	8	28	28
1.00	10	29	29
1.10	10	30	30
1.20	9	28	28
1.30	11	27	27
1.40	8	24	24
1.50	8	25	25
1.60	8	26	26
1.70	9	28	28
1.80	9	26	26
1.90	10	21	21
2.00	7	15	15
2.10	4	12	12
2.20	4	13	13
2.30	4	13	13
2.40	5	11	11
2.50	4	8	8
2.60	2	6	6
2.70	2	6	6
2.80	2	7	7
2.90	2	8	8
3.00	3	10	10
3.10	3	10	10
3.20	4	12	12
3.30	3	13	13
3.40	5	14	14
3.50	5	14	14
3.60	4	14	14
3.70	5	16	16
3.80	5	17	17
3.90	6	18	18
4.00	6	17	17
4.10	6	16	16
4.20	5	16	16
4.30	5	17	17
4.40	6	19	19
4.50	6	24	24
4.60	7	28	28
4.70	11	33	33
4.80	10	30	30
4.90	12	30	30
5.00	8	30	30
5.10	10	32	32
5.20	12	32	32
5.30	10	29	29
5.40	10	30	30
5.50	9	31	31
5.60	11	30	30
5.70	11	29	29
5.80	8		
5.90	10		
6.00			
6.10			
6.20			
6.30			
6.40			
6.50			
6.60			
6.70			
6.80			
6.90			
7.00			
7.10			
7.20			
7.30			
7.40			
7.50			



DPN₁₀₀ values (shorter bars) & equivalent SPT values (longer bars)

Hammer Mass: 63.5 kg Cone Dia: 50.5mm
Drop Height: 750 mm Test by: EF

General Remarks:

DPN₁₀₀ = Dynamic penetration resistance for 100mm penetration.
DPN₃₀₀ = Dynamic penetration resistance for 300mm penetration (ie: sum of 3 consecutive DPN₁₀₀ values), starting at the depth given.
Equivalent SPT N-values (for 300mm penetration) assumed to approximate the DPN₃₀₀ values for dynamic probe "super-heavy" test (DPSH).
For dynamic probe "heavy" test (DPH), equivalent SPT N-values estimated using the theoretical relationship DPN₃₀₀ = 1.5 SPT-N, (see Card, G.B., Roche, D.P. & Herbert, S.M., in Geol. Soc. Special Publication No 6, *Field Testing in Engineering Geology* (1990)). SPT values are estimated and are for general guidance only.

Dynamic Probe Test Results Sheet

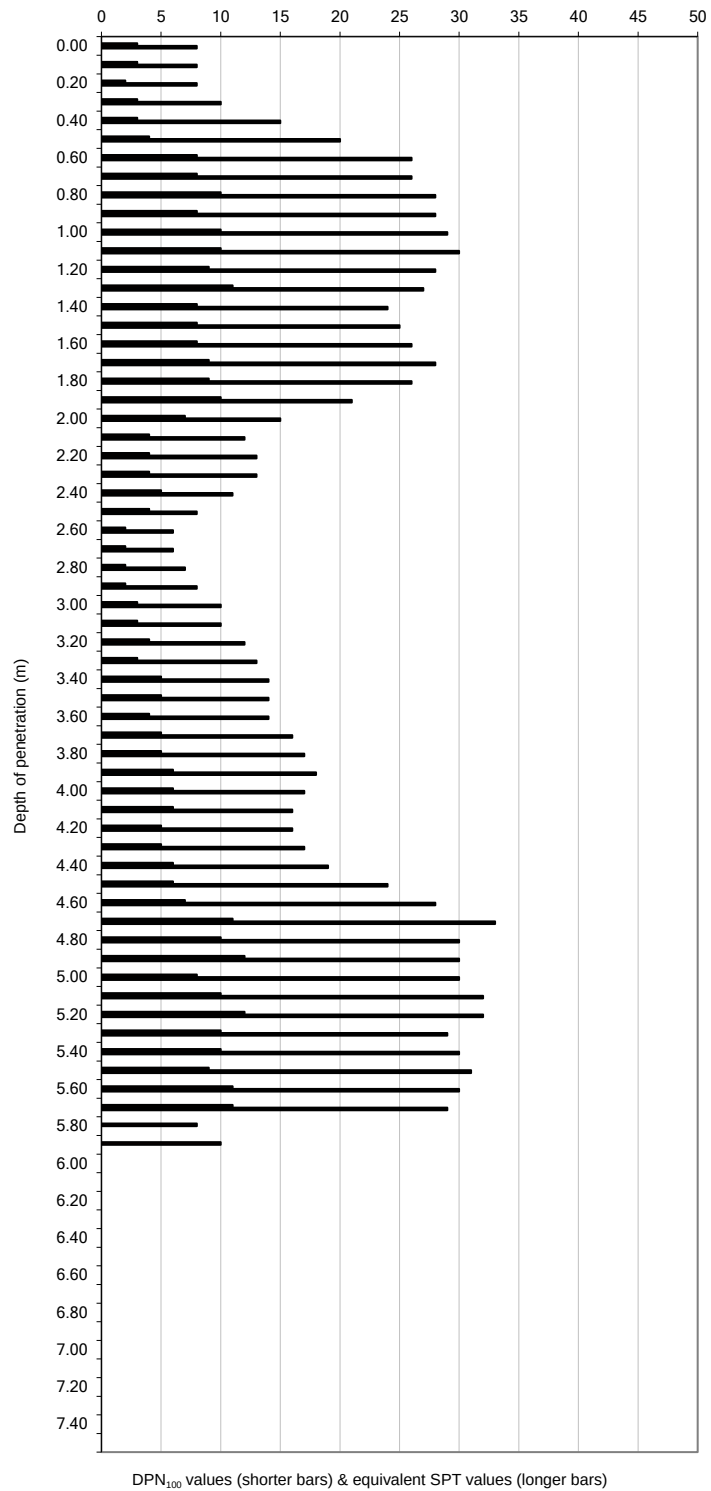
Site: **Northenden College**
 Job Number: **13-969**
 Client: **Cushman and Wakefield**
 Rig Type:

DP No: **SHDP114**

Date: **15th May 2020**
 Test Type: **SHDP**
 Final Depth: **6.0**
 Sheet 1 of 1



Penetration Test Results			
Depth (m)	DPN ₁₀₀	DPN ₃₀₀	SPT N *
0.00	3	8	8
0.10	3	8	8
0.20	2	8	8
0.30	3	10	10
0.40	3	15	15
0.50	4	20	20
0.60	8	26	26
0.70	8	26	26
0.80	10	28	28
0.90	8	28	28
1.00	10	29	29
1.10	10	30	30
1.20	9	28	28
1.30	11	27	27
1.40	8	24	24
1.50	8	25	25
1.60	8	26	26
1.70	9	28	28
1.80	9	26	26
1.90	10	21	21
2.00	7	15	15
2.10	4	12	12
2.20	4	13	13
2.30	4	13	13
2.40	5	11	11
2.50	4	8	8
2.60	2	6	6
2.70	2	6	6
2.80	2	7	7
2.90	2	8	8
3.00	3	10	10
3.10	3	10	10
3.20	4	12	12
3.30	3	13	13
3.40	5	14	14
3.50	5	14	14
3.60	4	14	14
3.70	5	16	16
3.80	5	17	17
3.90	6	18	18
4.00	6	17	17
4.10	6	16	16
4.20	5	16	16
4.30	5	17	17
4.40	6	19	19
4.50	6	24	24
4.60	7	28	28
4.70	11	33	33
4.80	10	30	30
4.90	12	30	30
5.00	8	30	30
5.10	10	32	32
5.20	12	32	32
5.30	10	29	29
5.40	10	30	30
5.50	9	31	31
5.60	11	30	30
5.70	11	29	29
5.80	8		
5.90	10		
6.00			
6.10			
6.20			
6.30			
6.40			
6.50			
6.60			
6.70			
6.80			
6.90			
7.00			
7.10			
7.20			
7.30			
7.40			
7.50			



Hammer Mass: 63.5 kg Cone Dia: 50.5mm
 Drop Height: 750 mm Test by: EF

General Remarks:

DPN₁₀₀ = Dynamic penetration resistance for 100mm penetration.
 DPN₃₀₀ = Dynamic penetration resistance for 300mm penetration (ie: sum of 3 consecutive DPN₁₀₀ values), starting at the depth given.
 Equivalent SPT N-values (for 300mm penetration) assumed to approximate the DPN₃₀₀ values for dynamic probe "super-heavy" test (DPSH).
 For dynamic probe "heavy" test (DPH), equivalent SPT N-values estimated using the theoretical relationship $DPN_{300} = 1.5 \text{ SPT-N}$. [see Card, G.B., Roche, D.P. & Herbert, S.M., in Geol. Soc. Special Publication No 6, *Field Testing in Engineering Geology* (1990)]. SPT values are estimated and are for general guidance only.

Dynamic Probe Test Results Sheet

DP No: **SHDP116**

Site: **Northenden College**

Date: **15th May 2020**

Job Number: **13-969**

Test Type: **SHDP**

Client: **Cushman and Wakefield**

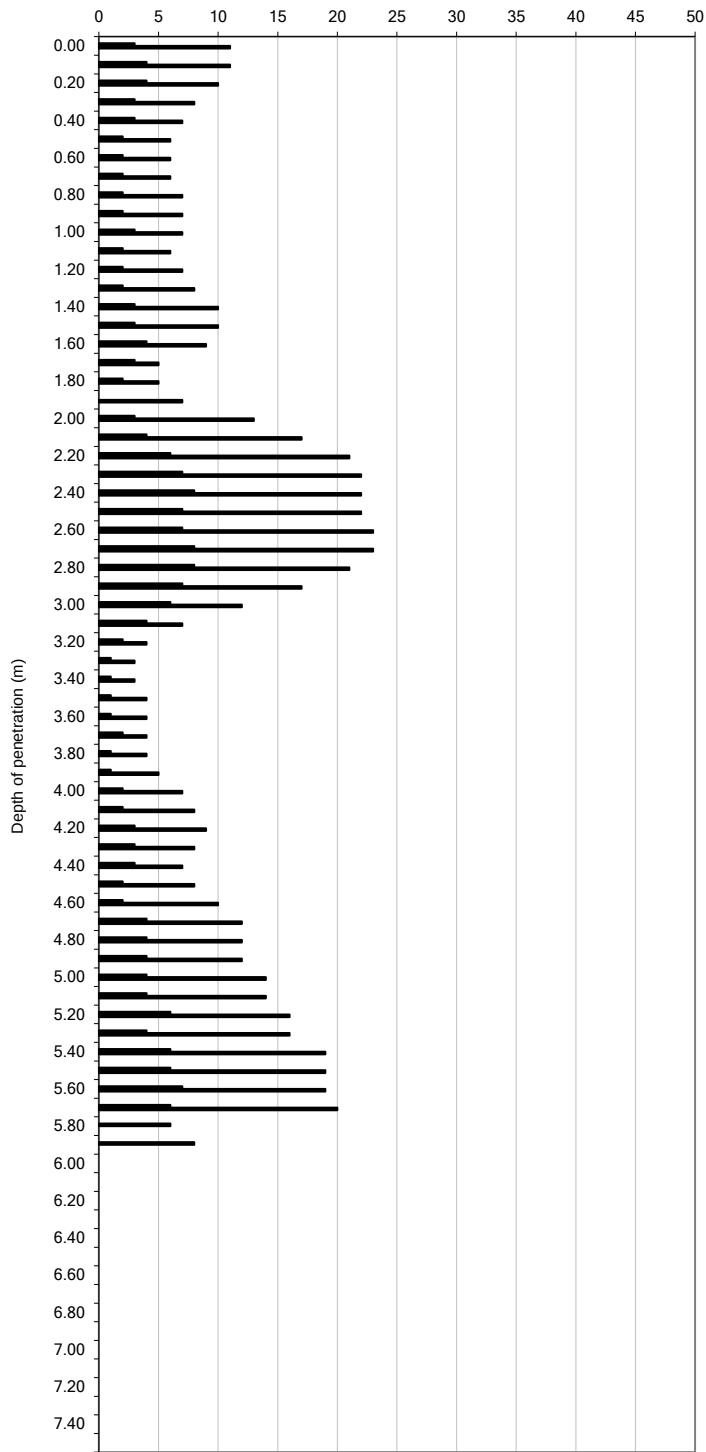
Final Depth: **6.0**

Rig Type:

Sheet 1 of 1



Penetration Test Results			
Depth (m)	DPN ₁₀₀	DPN ₃₀₀	SPT N *
0.00	3	11	11
0.10	4	11	11
0.20	4	10	10
0.30	3	8	8
0.40	3	7	7
0.50	2	6	6
0.60	2	6	6
0.70	2	6	6
0.80	2	7	7
0.90	2	7	7
1.00	3	7	7
1.10	2	6	6
1.20	2	7	7
1.30	2	8	8
1.40	3	10	10
1.50	3	10	10
1.60	4	9	9
1.70	3	5	5
1.80	2	5	5
1.90	0	7	7
2.00	3	13	13
2.10	4	17	17
2.20	6	21	21
2.30	7	22	22
2.40	8	22	22
2.50	7	22	22
2.60	7	23	23
2.70	8	23	23
2.80	8	21	21
2.90	7	17	17
3.00	6	12	12
3.10	4	7	7
3.20	2	4	4
3.30	1	3	3
3.40	1	3	3
3.50	1	4	4
3.60	1	4	4
3.70	2	4	4
3.80	1	4	4
3.90	1	5	5
4.00	2	7	7
4.10	2	8	8
4.20	3	9	9
4.30	3	8	8
4.40	3	7	7
4.50	2	8	8
4.60	2	10	10
4.70	4	12	12
4.80	4	12	12
4.90	4	12	12
5.00	4	14	14
5.10	4	14	14
5.20	6	16	16
5.30	4	16	16
5.40	6	19	19
5.50	6	19	19
5.60	7	19	19
5.70	6	20	20
5.80	6		
5.90	8		
6.00			
6.10			
6.20			
6.30			
6.40			
6.50			
6.60			
6.70			
6.80			
6.90			
7.00			
7.10			
7.20			
7.30			
7.40			
7.50			



DPN₁₀₀ values (shorter bars) & equivalent SPT values (longer bars)

Hammer Mass: 63.5 kg Cone Dia: 50.5mm
Drop Height: 750 mm Test by: EF

General Remarks:

DPN₁₀₀ = Dynamic penetration resistance for 100mm penetration.

DPN₃₀₀ = Dynamic penetration resistance for 300mm penetration (ie: sum of 3 consecutive DPN₁₀₀ values), starting at the depth given.

Equivalent SPT N-values (for 300mm penetration) assumed to approximate the DPN₃₀₀ values for dynamic probe "super-heavy" test (DPSH).

For dynamic probe "heavy" test (DPH), equivalent SPT N-values estimated using the theoretical relationship DPN₃₀₀ = 1.5 SPT-N, [see Card,G.B., Roche,D.P. & Herbert,S.M., in Geol. Soc. Special Publication No 6, *Field Testing in Engineering Geology* (1990)]. SPT values are estimated and are for general guidance only.

Dynamic Probe Test Results Sheet

DP No: **SHDP117**

Site: **Northenden College**

Date: **15th May 2020**

Job Number: **13-969**

Test Type: **SHDP**

Client: **Cushman and Wakefield**

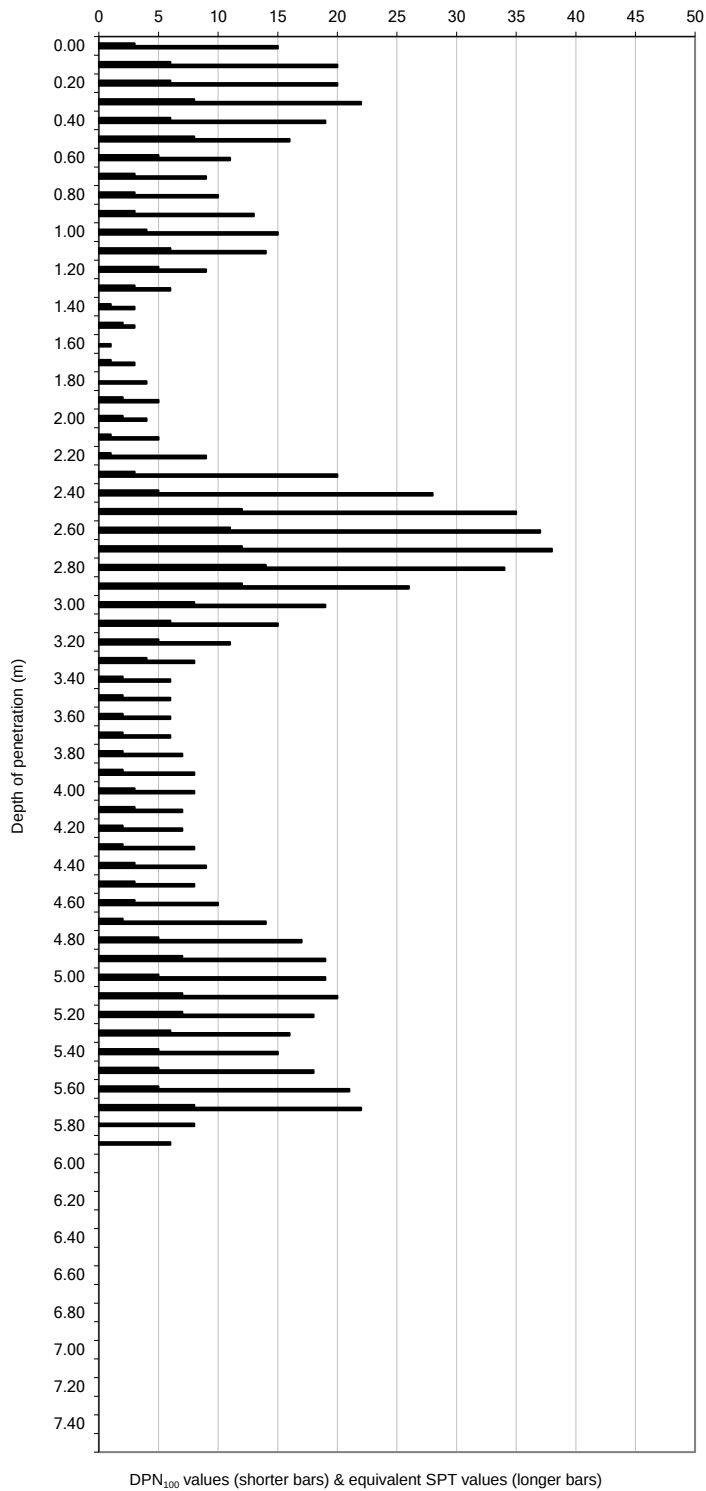
Final Depth: **6.0**

Rig Type:

Sheet 1 of 1



Penetration Test Results			
Depth (m)	DPN ₁₀₀	DPN ₃₀₀	SPT N *
0.00	3	15	15
0.10	6	20	20
0.20	6	20	20
0.30	8	22	22
0.40	6	19	19
0.50	8	16	16
0.60	5	11	11
0.70	3	9	9
0.80	3	10	10
0.90	3	13	13
1.00	4	15	15
1.10	6	14	14
1.20	5	9	9
1.30	3	6	6
1.40	1	3	3
1.50	2	3	3
1.60	0	1	1
1.70	1	3	3
1.80	0	4	4
1.90	2	5	5
2.00	2	4	4
2.10	1	5	5
2.20	1	9	9
2.30	3	20	20
2.40	5	28	28
2.50	12	35	35
2.60	11	37	37
2.70	12	38	38
2.80	14	34	34
2.90	12	26	26
3.00	8	19	19
3.10	6	15	15
3.20	5	11	11
3.30	4	8	8
3.40	2	6	6
3.50	2	6	6
3.60	2	6	6
3.70	2	6	6
3.80	2	7	7
3.90	2	8	8
4.00	3	8	8
4.10	3	7	7
4.20	2	7	7
4.30	2	8	8
4.40	3	9	9
4.50	3	8	8
4.60	3	10	10
4.70	2	14	14
4.80	5	17	17
4.90	7	19	19
5.00	5	19	19
5.10	7	20	20
5.20	7	18	18
5.30	6	16	16
5.40	5	15	15
5.50	5	18	18
5.60	5	21	21
5.70	8	22	22
5.80	8		
5.90	6		
6.00			
6.10			
6.20			
6.30			
6.40			
6.50			
6.60			
6.70			
6.80			
6.90			
7.00			
7.10			
7.20			
7.30			
7.40			
7.50			



Hammer Mass: 63.5 kg Cone Dia: 50.5mm
Drop Height: 750 mm Test by: EF

General Remarks:

DPN₁₀₀ = Dynamic penetration resistance for 100mm penetration.
DPN₃₀₀ = Dynamic penetration resistance for 300mm penetration (ie: sum of 3 consecutive DPN₁₀₀ values), starting at the depth given.
Equivalent SPT N-values (for 300mm penetration) assumed to approximate the DPN₃₀₀ values for dynamic probe "super-heavy" test (DPSH).
For dynamic probe "heavy" test (DPH), equivalent SPT N-values estimated using the theoretical relationship DPN₃₀₀ = 1.5 SPT-N, [see Card, G.B., Roche, D.P. & Herbert, S.M., in Geol. Soc. Special Publication No 6, *Field Testing in Engineering Geology* (1990)]. SPT values are estimated and are for general guidance only.

Dynamic Probe Test Results Sheet

DP No: **SHDP118**

Site: **Northenden College**

Date: 15th May 2020

Job Number: **13-969**

Test Type: SHDP

Client: **Cushman and Wakefield**

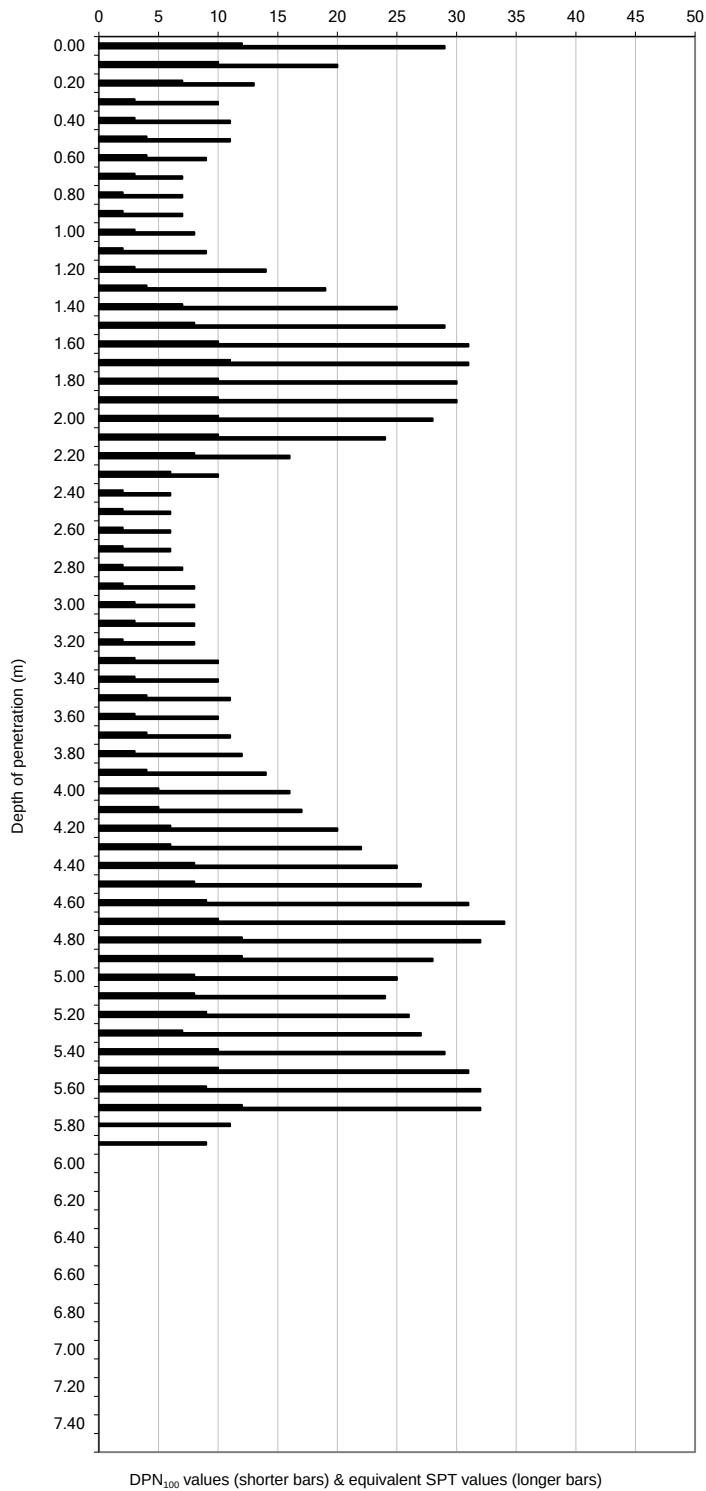
Final Depth: 6.0

Rig Type:

Sheet 1 of 1



Penetration Test Results			
Depth (m)	DPN ₁₀₀	DPN ₃₀₀	SPT N *
0.00	12	29	29
0.10	10	20	20
0.20	7	13	13
0.30	3	10	10
0.40	3	11	11
0.50	4	11	11
0.60	4	9	9
0.70	3	7	7
0.80	2	7	7
0.90	2	7	7
1.00	3	8	8
1.10	2	9	9
1.20	3	14	14
1.30	4	19	19
1.40	7	25	25
1.50	8	29	29
1.60	10	31	31
1.70	11	31	31
1.80	10	30	30
1.90	10	30	30
2.00	10	28	28
2.10	10	24	24
2.20	8	16	16
2.30	6	10	10
2.40	2	6	6
2.50	2	6	6
2.60	2	6	6
2.70	2	6	6
2.80	2	7	7
2.90	2	8	8
3.00	3	8	8
3.10	3	8	8
3.20	2	8	8
3.30	3	10	10
3.40	3	10	10
3.50	4	11	11
3.60	3	10	10
3.70	4	11	11
3.80	3	12	12
3.90	4	14	14
4.00	5	16	16
4.10	5	17	17
4.20	6	20	20
4.30	6	22	22
4.40	8	25	25
4.50	8	27	27
4.60	9	31	31
4.70	10	34	34
4.80	12	32	32
4.90	12	28	28
5.00	8	25	25
5.10	8	24	24
5.20	9	26	26
5.30	7	27	27
5.40	10	29	29
5.50	10	31	31
5.60	9	32	32
5.70	12	32	32
5.80	11		
5.90	9		
6.00			
6.10			
6.20			
6.30			
6.40			
6.50			
6.60			
6.70			
6.80			
6.90			
7.00			
7.10			
7.20			
7.30			
7.40			
7.50			



Hammer Mass: 63.5 kg Cone Dia: 50.5mm
Drop Height: 750 mm Test by: EF

General Remarks:

DPN₁₀₀ = Dynamic penetration resistance for 100mm penetration.

DPN₃₀₀ = Dynamic penetration resistance for 300mm penetration (ie: sum of 3 consecutive DPN₁₀₀ values), starting at the depth given.

Equivalent SPT N-values (for 300mm penetration) assumed to approximate the DPN₃₀₀ values for dynamic probe "super-heavy" test (DPSH).

For dynamic probe "heavy" test (DPH), equivalent SPT N-values estimated using the theoretical relationship DPN₃₀₀ = 1.5 SPT-N, [see Card,G.B., Roche,D.P. & Herbert,S.M., in Geol. Soc. Special Publication No 6, *Field Testing in Engineering Geology* (1990)]. SPT values are estimated and are for general guidance only.

Dynamic Probe Test Results Sheet

DP No: **SHDP119**

Site: **Northenden College**

Date: 15th May 2020

Job Number: **13-969**

Test Type: SHDP

Client: **Cushman and Wakefield**

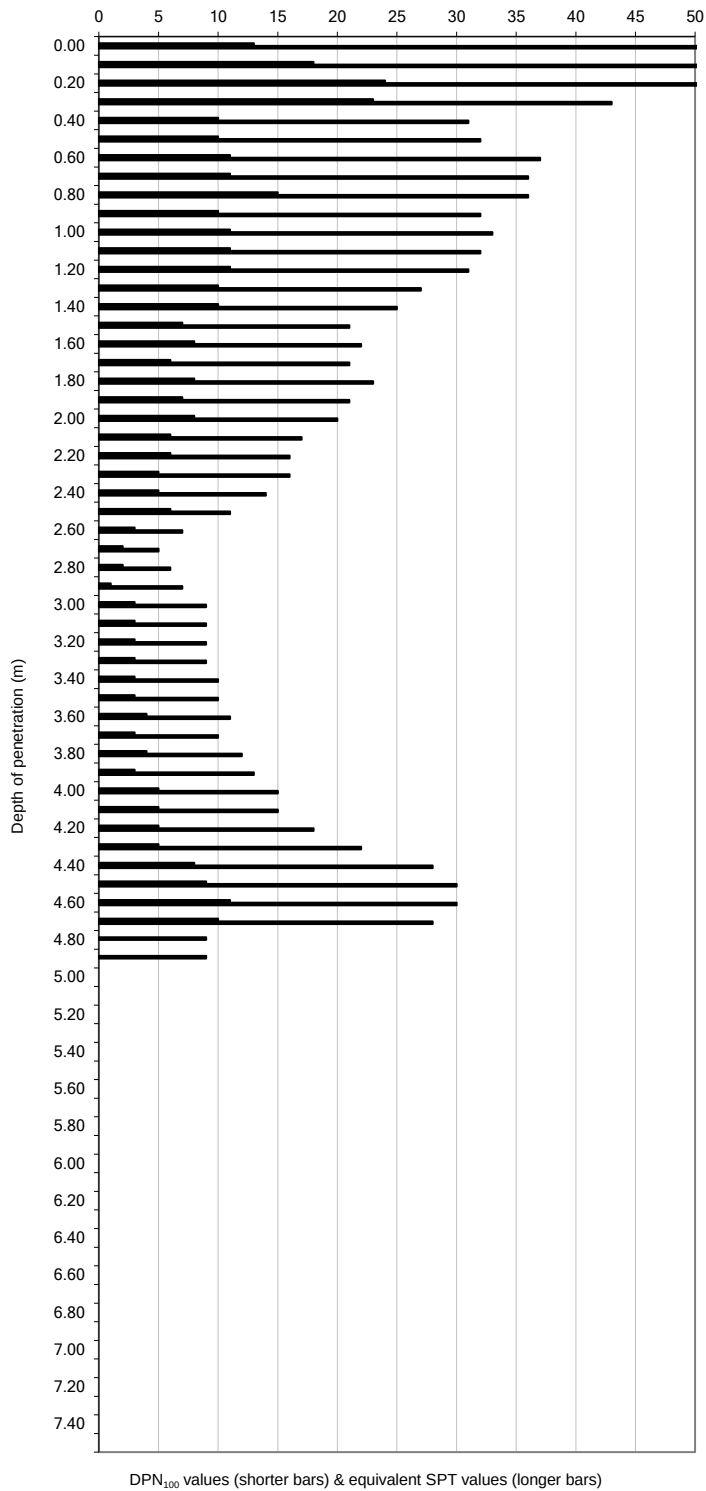
Final Depth: 6.0

Rig Type:

Sheet 1 of 1



Depth (m)	DPN ₁₀₀	DPN ₃₀₀	SPT N *
0.00	13	55	55
0.10	18	65	65
0.20	24	57	57
0.30	23	43	43
0.40	10	31	31
0.50	10	32	32
0.60	11	37	37
0.70	11	36	36
0.80	15	36	36
0.90	10	32	32
1.00	11	33	33
1.10	11	32	32
1.20	11	31	31
1.30	10	27	27
1.40	10	25	25
1.50	7	21	21
1.60	8	22	22
1.70	6	21	21
1.80	8	23	23
1.90	7	21	21
2.00	8	20	20
2.10	6	17	17
2.20	6	16	16
2.30	5	16	16
2.40	5	14	14
2.50	6	11	11
2.60	3	7	7
2.70	2	5	5
2.80	2	6	6
2.90	1	7	7
3.00	3	9	9
3.10	3	9	9
3.20	3	9	9
3.30	3	9	9
3.40	3	10	10
3.50	3	10	10
3.60	4	11	11
3.70	3	10	10
3.80	4	12	12
3.90	3	13	13
4.00	5	15	15
4.10	5	15	15
4.20	5	18	18
4.30	5	22	22
4.40	8	28	28
4.50	9	30	30
4.60	11	30	30
4.70	10	28	28
4.80	9		
4.90	9		
5.00			
5.10			
5.20			
5.30			
5.40			
5.50			
5.60			
5.70			
5.80			
5.90			
6.00			
6.10			
6.20			
6.30			
6.40			
6.50			
6.60			
6.70			
6.80			
6.90			
7.00			
7.10			
7.20			
7.30			
7.40			
7.50			



Hammer Mass: 63.5 kg Cone Dia: 50.5mm
Drop Height: 750 mm Test by: EF

General Remarks:

DPN₁₀₀ = Dynamic penetration resistance for 100mm penetration.
DPN₃₀₀ = Dynamic penetration resistance for 300mm penetration (ie: sum of 3 consecutive DPN₁₀₀ values), starting at the depth given.
Equivalent SPT N-values (for 300mm penetration) assumed to approximate the DPN₃₀₀ values for dynamic probe "super-heavy" test (DPSH).
For dynamic probe "heavy" test (DPH), equivalent SPT N-values estimated using the theoretical relationship DPN₃₀₀ = 1.5 SPT-N. (see Card, G.B., Roche, D.P. & Herbert, S.M., in Geol. Soc. Special Publication No 6, *Field Testing in Engineering Geology* (1990)). SPT values are estimated and are for general guidance only.

Dynamic Probe Test Results Sheet

DP No: **SHDP120**

Site: **Northenden College**

Date: 15th May 2020

Job Number: **13-969**

Test Type: SHDP

Client: **Cushman and Wakefield**

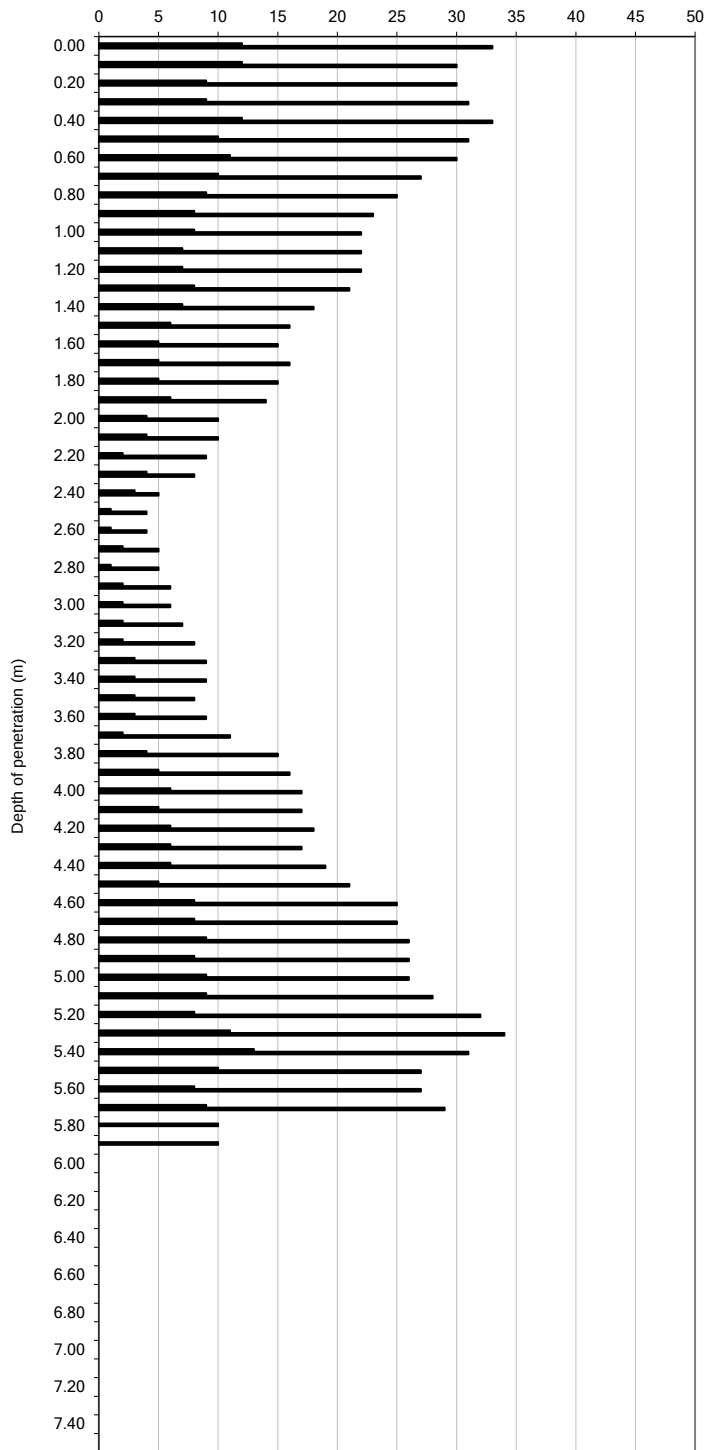
Final Depth: 6.0

Rig Type:

Sheet 1 of 1



Penetration Test Results			
Depth (m)	DPN ₁₀₀	DPN ₃₀₀	SPT N *
0.00	12	33	33
0.10	12	30	30
0.20	9	30	30
0.30	9	31	31
0.40	12	33	33
0.50	10	31	31
0.60	11	30	30
0.70	10	27	27
0.80	9	25	25
0.90	8	23	23
1.00	8	22	22
1.10	7	22	22
1.20	7	22	22
1.30	8	21	21
1.40	7	18	18
1.50	6	16	16
1.60	5	15	15
1.70	5	16	16
1.80	5	15	15
1.90	6	14	14
2.00	4	10	10
2.10	4	10	10
2.20	2	9	9
2.30	4	8	8
2.40	3	5	5
2.50	1	4	4
2.60	1	4	4
2.70	2	5	5
2.80	1	5	5
2.90	2	6	6
3.00	2	6	6
3.10	2	7	7
3.20	2	8	8
3.30	3	9	9
3.40	3	9	9
3.50	3	8	8
3.60	3	9	9
3.70	2	11	11
3.80	4	15	15
3.90	5	16	16
4.00	6	17	17
4.10	5	17	17
4.20	6	18	18
4.30	6	17	17
4.40	6	19	19
4.50	5	21	21
4.60	8	25	25
4.70	8	25	25
4.80	9	26	26
4.90	8	26	26
5.00	9	26	26
5.10	9	28	28
5.20	8	32	32
5.30	11	34	34
5.40	13	31	31
5.50	10	27	27
5.60	8	27	27
5.70	9	29	29
5.80	10		
5.90	10		
6.00			
6.10			
6.20			
6.30			
6.40			
6.50			
6.60			
6.70			
6.80			
6.90			
7.00			
7.10			
7.20			
7.30			
7.40			
7.50			



Hammer Mass: 63.5 kg Cone Dia: 50.5mm
Drop Height: 750 mm Test by: EF

General Remarks:

DPN₁₀₀ = Dynamic penetration resistance for 100mm penetration.

DPN₃₀₀ = Dynamic penetration resistance for 300mm penetration (ie: sum of 3 consecutive DPN₁₀₀ values), starting at the depth given.

Equivalent SPT N-values (for 300mm penetration) assumed to approximate the DPN₃₀₀ values for dynamic probe "super-heavy" test (DPSH).

For dynamic probe "heavy" test (DPH), equivalent SPT N-values estimated using the theoretical relationship DPN₃₀₀ = 1.5 SPT-N, [see Card,G.B., Roche,D.P. & Herbert,S.M., in Geol. Soc. Special Publication No 6, *Field Testing in Engineering Geology* (1990)]. SPT values are estimated and are for general guidance only.

Dynamic Probe Test Results Sheet

DP No: **SHDP121**

Site: **Northenden College**

Date: **15th May 2020**

Job Number: **13-969**

Test Type: **SHDP**

Client: **Cushman and Wakefield**

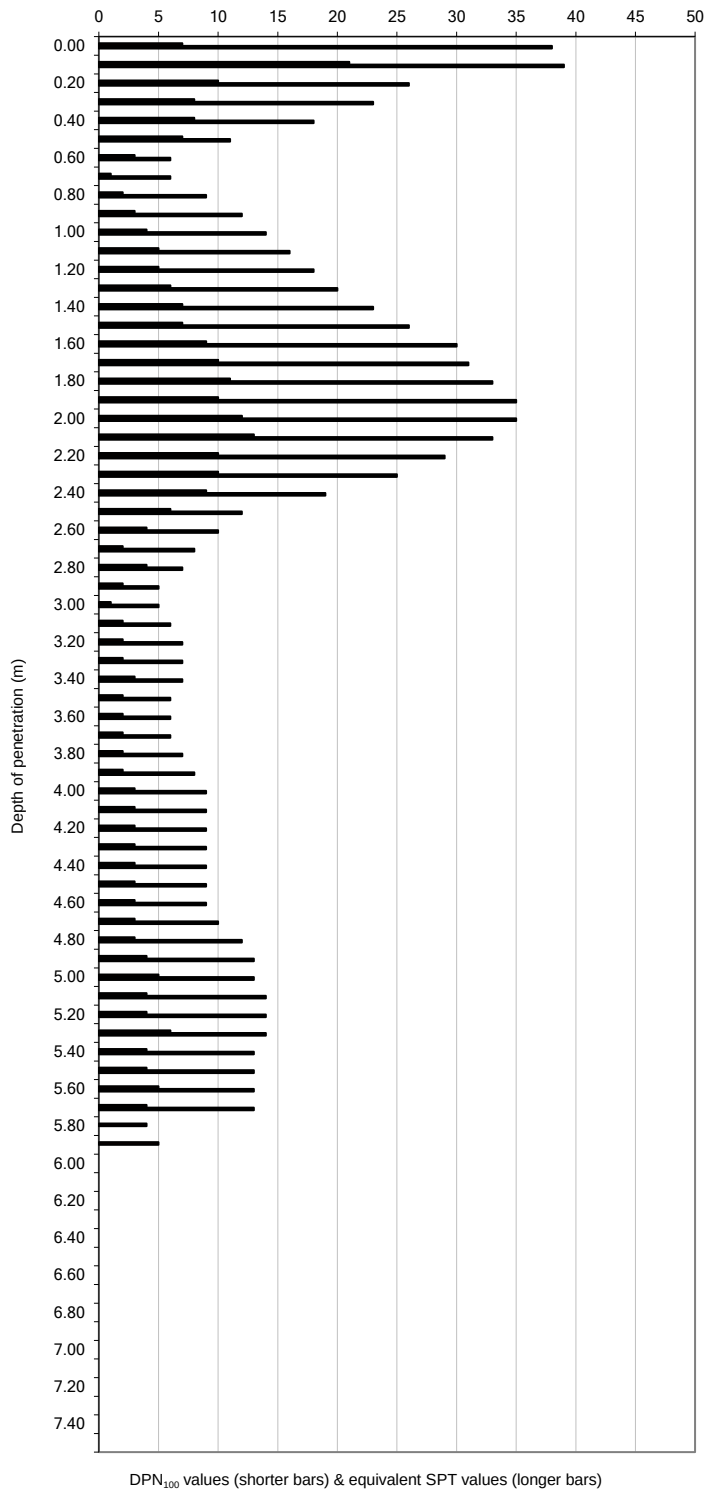
Final Depth: **6.0**

Rig Type:

Sheet 1 of 1



Penetration Test Results			
Depth (m)	DPN ₁₀₀	DPN ₃₀₀	SPT N *
0.00	7	38	38
0.10	21	39	39
0.20	10	26	26
0.30	8	23	23
0.40	8	18	18
0.50	7	11	11
0.60	3	6	6
0.70	1	6	6
0.80	2	9	9
0.90	3	12	12
1.00	4	14	14
1.10	5	16	16
1.20	5	18	18
1.30	6	20	20
1.40	7	23	23
1.50	7	26	26
1.60	9	30	30
1.70	10	31	31
1.80	11	33	33
1.90	10	35	35
2.00	12	35	35
2.10	13	33	33
2.20	10	29	29
2.30	10	25	25
2.40	9	19	19
2.50	6	12	12
2.60	4	10	10
2.70	2	8	8
2.80	4	7	7
2.90	2	5	5
3.00	1	5	5
3.10	2	6	6
3.20	2	7	7
3.30	2	7	7
3.40	3	7	7
3.50	2	6	6
3.60	2	6	6
3.70	2	6	6
3.80	2	7	7
3.90	2	8	8
4.00	3	9	9
4.10	3	9	9
4.20	3	9	9
4.30	3	9	9
4.40	3	9	9
4.50	3	9	9
4.60	3	9	9
4.70	3	10	10
4.80	3	12	12
4.90	4	13	13
5.00	5	13	13
5.10	4	14	14
5.20	4	14	14
5.30	6	14	14
5.40	4	13	13
5.50	4	13	13
5.60	5	13	13
5.70	4	13	13
5.80	4		
5.90	5		
6.00			
6.10			
6.20			
6.30			
6.40			
6.50			
6.60			
6.70			
6.80			
6.90			
7.00			
7.10			
7.20			
7.30			
7.40			
7.50			



Hammer Mass: 63.5 kg Cone Dia: 50.5mm
Drop Height: 750 mm Test by: EF

General Remarks:

DPN₁₀₀ = Dynamic penetration resistance for 100mm penetration.
DPN₃₀₀ = Dynamic penetration resistance for 300mm penetration (ie: sum of 3 consecutive DPN₁₀₀ values), starting at the depth given.
Equivalent SPT N-values (for 300mm penetration) assumed to approximate the DPN₃₀₀ values for dynamic probe "super-heavy" test (DPSH).
For dynamic probe "heavy" test (DPH), equivalent SPT N-values estimated using the theoretical relationship DPN₃₀₀ = 1.5 SPT-N, [see Card, G.B., Roche, D.P. & Herbert, S.M., in Geol. Soc. Special Publication No 6, *Field Testing in Engineering Geology* (1990)]. SPT values are estimated and are for general guidance only.

Dynamic Probe Test Results Sheet

DP No: **SHDP122**

Site: **Northenden College**

Date: **15th May 2020**

Job Number: **13-969**

Test Type: **SHDP**

Client: **Cushman and Wakefield**

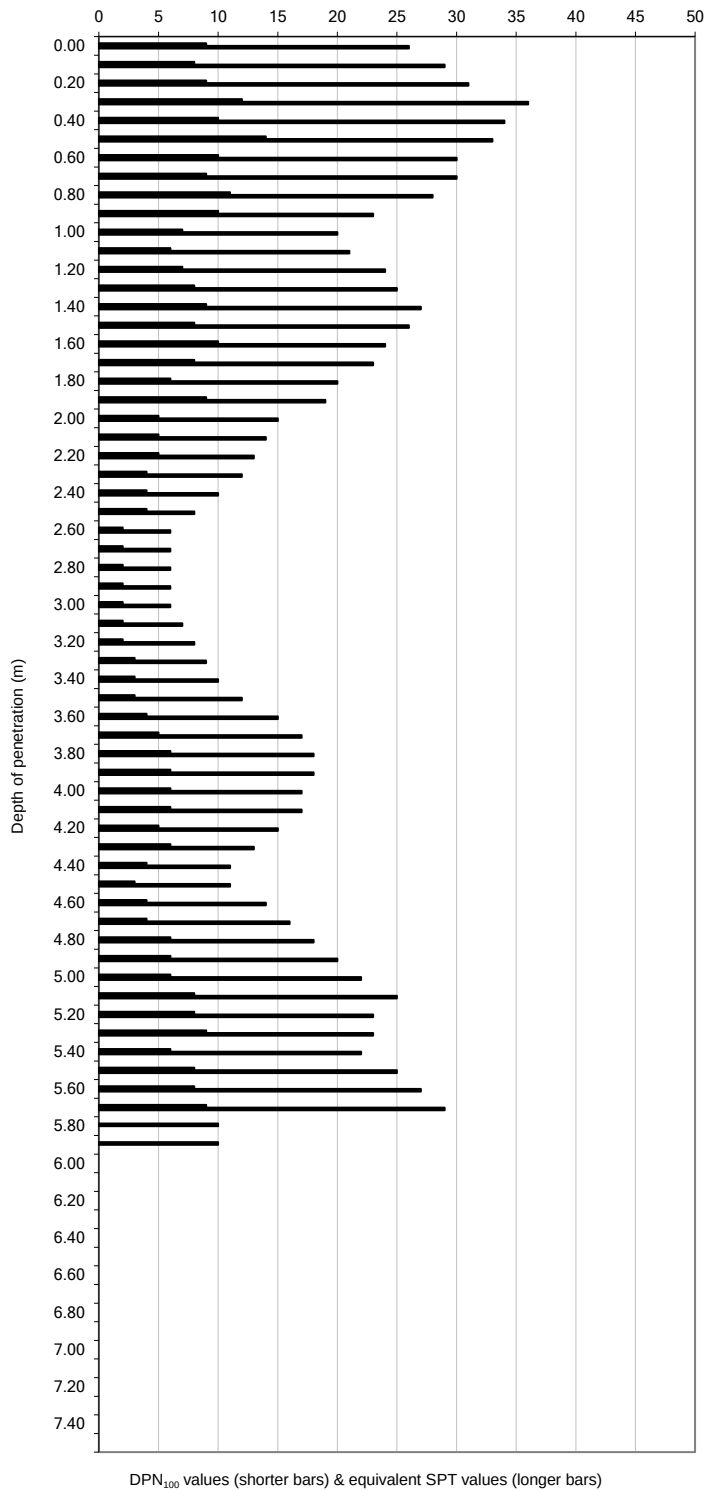
Final Depth: **6.0**

Rig Type:

Sheet 1 of 1



Penetration Test Results			
Depth (m)	DPN ₁₀₀	DPN ₃₀₀	SPT N *
0.00	9	26	26
0.10	8	29	29
0.20	9	31	31
0.30	12	36	36
0.40	10	34	34
0.50	14	33	33
0.60	10	30	30
0.70	9	30	30
0.80	11	28	28
0.90	10	23	23
1.00	7	20	20
1.10	6	21	21
1.20	7	24	24
1.30	8	25	25
1.40	9	27	27
1.50	8	26	26
1.60	10	24	24
1.70	8	23	23
1.80	6	20	20
1.90	9	19	19
2.00	5	15	15
2.10	5	14	14
2.20	5	13	13
2.30	4	12	12
2.40	4	10	10
2.50	4	8	8
2.60	2	6	6
2.70	2	6	6
2.80	2	6	6
2.90	2	6	6
3.00	2	6	6
3.10	2	7	7
3.20	2	8	8
3.30	3	9	9
3.40	3	10	10
3.50	3	12	12
3.60	4	15	15
3.70	5	17	17
3.80	6	18	18
3.90	6	18	18
4.00	6	17	17
4.10	6	17	17
4.20	5	15	15
4.30	6	13	13
4.40	4	11	11
4.50	3	11	11
4.60	4	14	14
4.70	4	16	16
4.80	6	18	18
4.90	6	20	20
5.00	6	22	22
5.10	8	25	25
5.20	8	23	23
5.30	9	23	23
5.40	6	22	22
5.50	8	25	25
5.60	8	27	27
5.70	9	29	29
5.80	10		
5.90	10		
6.00			
6.10			
6.20			
6.30			
6.40			
6.50			
6.60			
6.70			
6.80			
6.90			
7.00			
7.10			
7.20			
7.30			
7.40			
7.50			



Hammer Mass: 63.5 kg Cone Dia: 50.5mm
Drop Height: 750 mm Test by: EF

General Remarks:

DPN₁₀₀ = Dynamic penetration resistance for 100mm penetration.

DPN₃₀₀ = Dynamic penetration resistance for 300mm penetration (ie: sum of 3 consecutive DPN₁₀₀ values), starting at the depth given.

Equivalent SPT N-values (for 300mm penetration) assumed to approximate the DPN₃₀₀ values for dynamic probe "super-heavy" test (DPSH).

For dynamic probe "heavy" test (DPH), equivalent SPT N-values estimated using the theoretical relationship DPN₃₀₀ = 1.5 SPT-N, [see Card,G.B., Roche,D.P. & Herbert,S.M., in Geol. Soc. Special Publication No 6, *Field Testing in Engineering Geology* (1990)]. SPT values are estimated and are for general guidance only.

Dynamic Probe Test Results Sheet

DP No: **SHDP123**

Site: **Northenden College**

Date: **15th May 2020**

Job Number: **13-969**

Test Type: **SHDP**

Client: **Cushman and Wakefield**

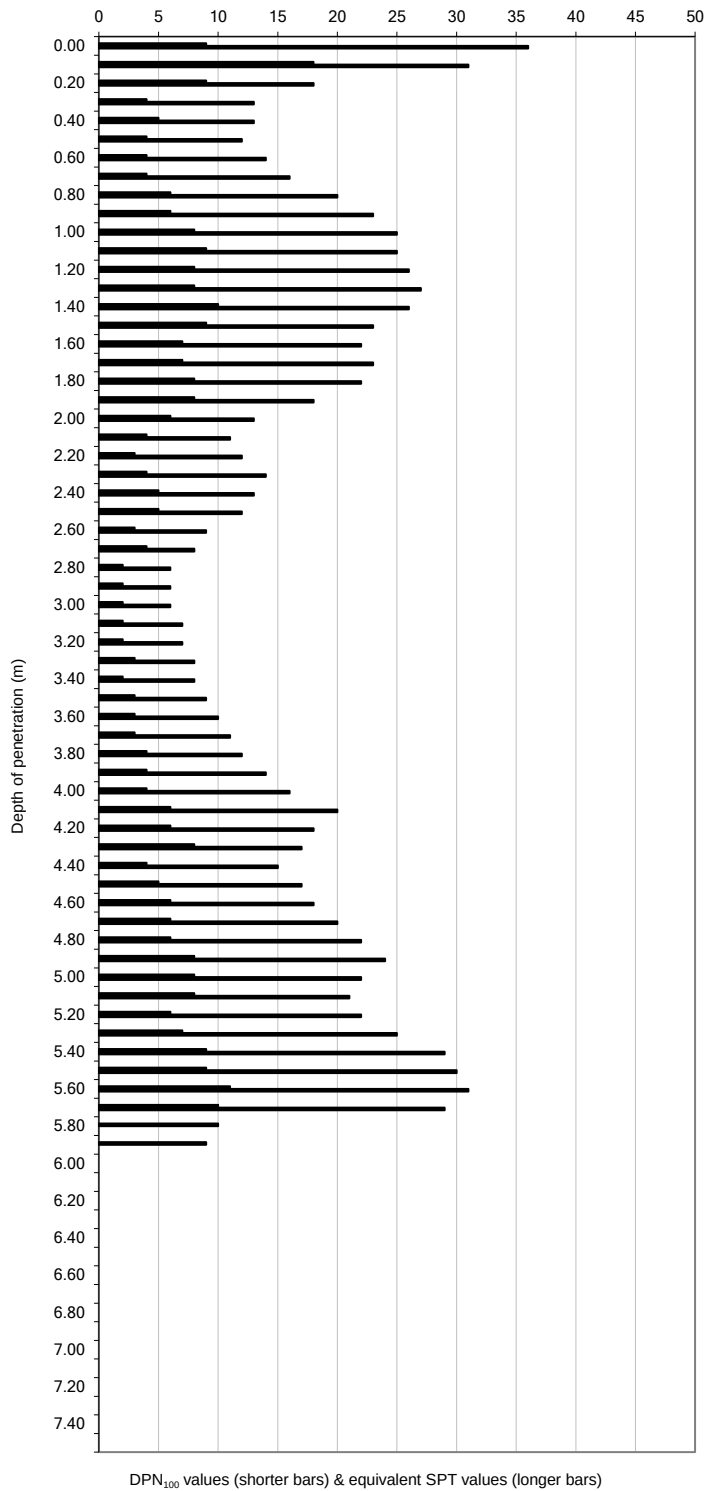
Final Depth: **6.0**

Rig Type:

Sheet 1 of 1



Penetration Test Results			
Depth (m)	DPN ₁₀₀	DPN ₃₀₀	SPT N *
0.00	9	36	36
0.10	18	31	31
0.20	9	18	18
0.30	4	13	13
0.40	5	13	13
0.50	4	12	12
0.60	4	14	14
0.70	4	16	16
0.80	6	20	20
0.90	6	23	23
1.00	8	25	25
1.10	9	25	25
1.20	8	26	26
1.30	8	27	27
1.40	10	26	26
1.50	9	23	23
1.60	7	22	22
1.70	7	23	23
1.80	8	22	22
1.90	8	18	18
2.00	6	13	13
2.10	4	11	11
2.20	3	12	12
2.30	4	14	14
2.40	5	13	13
2.50	5	12	12
2.60	3	9	9
2.70	4	8	8
2.80	2	6	6
2.90	2	6	6
3.00	2	6	6
3.10	2	7	7
3.20	2	7	7
3.30	3	8	8
3.40	2	8	8
3.50	3	9	9
3.60	3	10	10
3.70	3	11	11
3.80	4	12	12
3.90	4	14	14
4.00	4	16	16
4.10	6	20	20
4.20	6	18	18
4.30	8	17	17
4.40	4	15	15
4.50	5	17	17
4.60	6	18	18
4.70	6	20	20
4.80	6	22	22
4.90	8	24	24
5.00	8	22	22
5.10	8	21	21
5.20	6	22	22
5.30	7	25	25
5.40	9	29	29
5.50	9	30	30
5.60	11	31	31
5.70	10	29	29
5.80	10		
5.90	9		
6.00			
6.10			
6.20			
6.30			
6.40			
6.50			
6.60			
6.70			
6.80			
6.90			
7.00			
7.10			
7.20			
7.30			
7.40			
7.50			



Hammer Mass: 63.5 kg Cone Dia: 50.5mm
Drop Height: 750 mm Test by: EF

General Remarks:

DPN₁₀₀ = Dynamic penetration resistance for 100mm penetration.
DPN₃₀₀ = Dynamic penetration resistance for 300mm penetration (ie: sum of 3 consecutive DPN₁₀₀ values), starting at the depth given.
Equivalent SPT N-values (for 300mm penetration) assumed to approximate the DPN₃₀₀ values for dynamic probe "super-heavy" test (DPSH).
For dynamic probe "heavy" test (DPH), equivalent SPT N-values estimated using the theoretical relationship DPN₃₀₀ = 1.5 SPT-N, [see Card,G.B., Roche,D.P. & Herbert,S.M., in Geol. Soc. Special Publication No 6, *Field Testing in Engineering Geology* (1990)]. SPT values are estimated and are for general guidance only.

Dynamic Probe Test Results Sheet

DP No: **SHDP124**

Site: **Northenden College**

Date: **15th May 2020**

Job Number: **13-969**

Test Type: **SHDP**

Client: **Cushman and Wakefield**

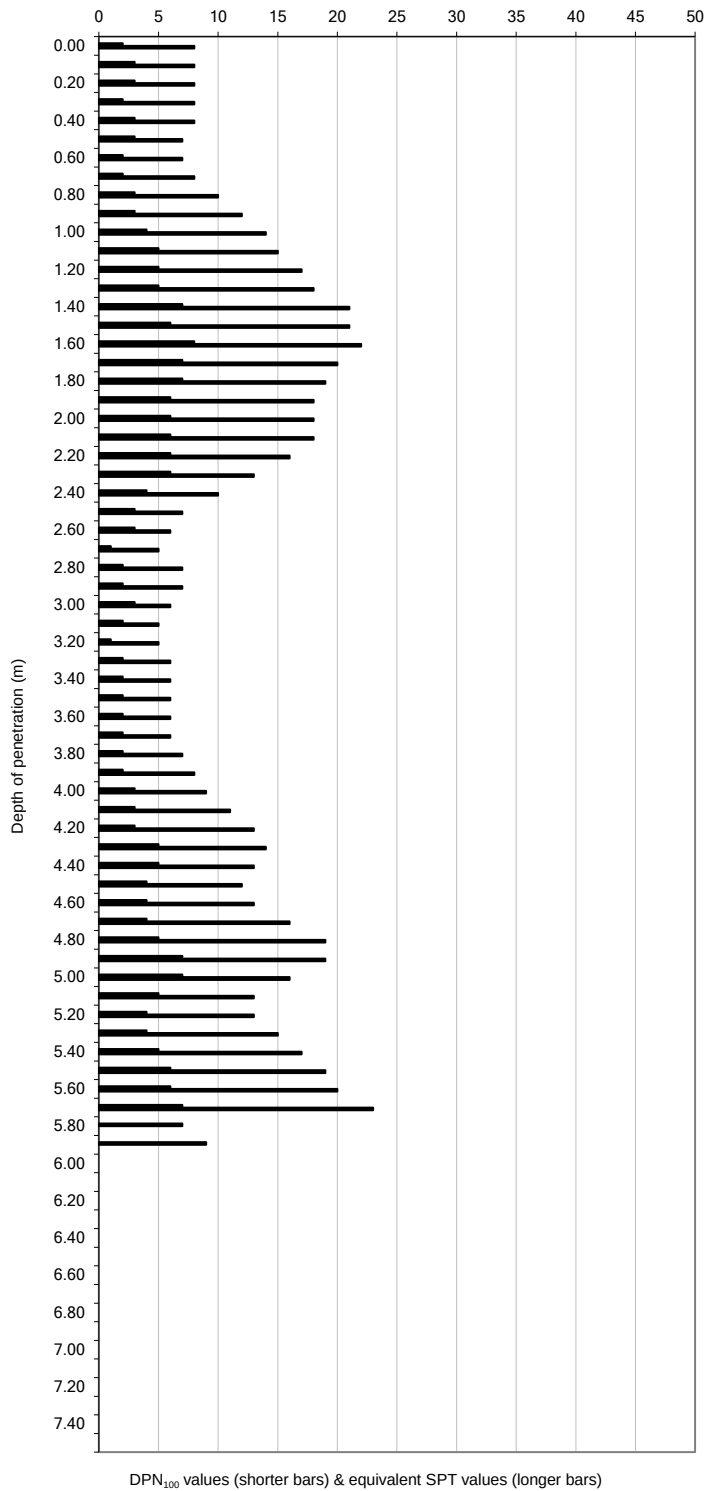
Final Depth: **6.0**

Rig Type:

Sheet 1 of 1



Penetration Test Results			
Depth (m)	DPN ₁₀₀	DPN ₃₀₀	SPT N *
0.00	2	8	8
0.10	3	8	8
0.20	3	8	8
0.30	2	8	8
0.40	3	8	8
0.50	3	7	7
0.60	2	7	7
0.70	2	8	8
0.80	3	10	10
0.90	3	12	12
1.00	4	14	14
1.10	5	15	15
1.20	5	17	17
1.30	5	18	18
1.40	7	21	21
1.50	6	21	21
1.60	8	22	22
1.70	7	20	20
1.80	7	19	19
1.90	6	18	18
2.00	6	18	18
2.10	6	18	18
2.20	6	16	16
2.30	6	13	13
2.40	4	10	10
2.50	3	7	7
2.60	3	6	6
2.70	1	5	5
2.80	2	7	7
2.90	2	7	7
3.00	3	6	6
3.10	2	5	5
3.20	1	5	5
3.30	2	6	6
3.40	2	6	6
3.50	2	6	6
3.60	2	6	6
3.70	2	6	6
3.80	2	7	7
3.90	2	8	8
4.00	3	9	9
4.10	3	11	11
4.20	3	13	13
4.30	5	14	14
4.40	5	13	13
4.50	4	12	12
4.60	4	13	13
4.70	4	16	16
4.80	5	19	19
4.90	7	19	19
5.00	7	16	16
5.10	5	13	13
5.20	4	13	13
5.30	4	15	15
5.40	5	17	17
5.50	6	19	19
5.60	6	20	20
5.70	7	23	23
5.80	7		
5.90	9		
6.00			
6.10			
6.20			
6.30			
6.40			
6.50			
6.60			
6.70			
6.80			
6.90			
7.00			
7.10			
7.20			
7.30			
7.40			
7.50			



Hammer Mass: 63.5 kg Cone Dia: 50.5mm
Drop Height: 750 mm Test by: EF

General Remarks:

DPN₁₀₀ = Dynamic penetration resistance for 100mm penetration.
DPN₃₀₀ = Dynamic penetration resistance for 300mm penetration (ie: sum of 3 consecutive DPN₁₀₀ values), starting at the depth given.
Equivalent SPT N-values (for 300mm penetration) assumed to approximate the DPN₃₀₀ values for dynamic probe "super-heavy" test (DPSH).
For dynamic probe "heavy" test (DPH), equivalent SPT N-values estimated using the theoretical relationship DPN₃₀₀ = 1.5 SPT-N, [see Card, G.B., Roche, D.P. & Herbert, S.M., in Geol. Soc. Special Publication No 6, *Field Testing in Engineering Geology* (1990)]. SPT values are estimated and are for general guidance only.