SOLMEK
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Stockton on Tees
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Rotary Open Hole Log

Scale 1:150 Sheet 1 of 2

BH02

Contract no:	NE-26-021	**Site:**	Leconfield Industrial Estate, Cleator Moor	**Driller:**	L&A Drilling Ltd
				Plant used:	Beretta T44
				Started:	14/04/2026
Client:	Morgan Sindall			**Ended:**	15/04/2026
Method:	Open Hole			**Backfilled:**	15/04/2026

GL (AOD):	83.07m
Easting:	515574.23
Northing:	301723.46
Logged:	TJ
Status:	DRAFT

Backfill / Installation	Legend	Depth (m)	Level (m AOD)	Stratum Description
		0.20	82.87	MADE GROUND: Brown-grey, concrete Brick-style paving.
		0.30	82.77	MADE GROUND: Brown Sand subbase.
		0.60	82.47	MADE GROUND: Brown, gravelly Sand. Sand is fine to coarse. Gravel is fine to coarse, angular to subangular of mudstone, sandstone, concrete, glass, and brick.
				MADE GROUND: Grey, fused, solid Slag.
		7.20	75.87	Stiff, grey, silty, slightly sandy, slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse, angular to subangular of mudstone, siltstone, and sandstone.
G		9.10	73.97	Stiff, red-brown, slightly sandy, slightly gravelly, slightly cobbly CLAY. Sand is fine to coarse. Gravel is fine to coarse, angular to subangular of mudstone, siltstone, and sandstone. Cobbles are fine to coarse, subrounded to rounded of siltstone.
		10.90	72.17	Dark grey MUDSTONE. No loss of flush and consistent output.

Samples and Insitu Testing

Depth (m)	Type	Results

Coring / Fractures

TCR (%)	SCR (%)	RQD (%)	Fracture

Hole Diameter

Depth Base (m)	Diameter (mm)

Casing Depths

Depth Base (m)	Diameter (mm)

General Remarks

1.2m Hand excavated inspection pit dug.
Groundwater encountered at 5.70m & 8.70m.

Flush Returns

From (m)	To (m)	Flush Type	Flush (%)

Ground Water

Depth Strike (m)	Depth Casing (m)	Depth Sealed (m)	Time Elapsed (min)	Water Level (m)
5.70 8.70				

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BH02

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				Plant used:	Beretta T44
				Started:	14/04/2026
Client:	Morgan Sindall			**Ended:**	15/04/2026
Method:	Open Hole			**Backfilled:**	15/04/2026

GL (AOD):	83.07m	
Easting:	515574.23	
Northing:	301723.46	
Logged:	TJ	
Status:	DRAFT	

Backfill / Installation	Legend	Depth (m)	Level (m AOD)	Stratum Description	Samples and Insitu Testing: Depth (m)	Type	Results	Coring / Fractures: TCR (%)	SCR (%)	RQD (%)	Fracture
				Dark grey MUDSTONE. No loss of flush and consistent output.							
		31.20	51.87								
		31.50	51.57	COAL seam.							
				Red-brown MUDSTONE. No loss of flush and consistent output.							
		40.00	43.07	End of Borehole at 40.000m							

Hole Diameter		Casing Depths		General Remarks
Depth Base (m)	Diameter (mm)	Depth Base (m)	Diameter (mm)	1.2m Hand excavated inspection pit dug. Groundwater encountered at 5.70m & 8.70m.

Flush Returns				Ground Water				
From (m)	To (m)	Flush Type	Flush (%)	Depth Strike (m)	Depth Casing (m)	Depth Sealed (m)	Time Elapsed (min)	Water Level (m)
				5.70 8.70				

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BH03

Contract no:	NE-26-021	**Site:**	Leconfield Industrial Estate, Cleator Moor	**Driller:**	L&A Drilling Ltd
				Plant used:	Beretta T44
				Started:	16/04/2026
Client:	Morgan Sindall			**Ended:**	17/04/2026
Method:	Open Hole & Rotary			**Backfilled:**	17/04/2026

GL (AOD):	82.90m
Easting:	515514.02
Northing:	301704.35
Logged:	TJ
Status:	DRAFT

Backfill / Installation	Legend	Depth (m)	Level (m AOD)	Stratum Description	Samples and Insitu Testing: Depth (m)	Type	Results	Coring / Fractures: TCR (%)	SCR (%)	RQD (%)	Fracture
		0.20	82.70	MADE GROUND: Brown-grey, concrete Brick-style paving.							
		0.30	82.60	MADE GROUND: Brown Sand subbase.							
		0.60	82.30	MADE GROUND: Firm-stiff, grey, slightly sandy, slightly gravelly, reworked Clay. Sand is fine to coarse. Gravel is fine to coarse, angular to subangular of mudstone, siltstone, and sandstone.							
		1.70	81.20	MADE GROUND: Firm, grey-brown, slightly sandy, slightly gravelly, reworked Clay. Sand is fine to coarse. Gravel is fine to coarse, angular to subangular of mudstone, siltstone, and sandstone.							
				MADE GROUND: Grey, fused, solid Slag.							
		7.40	75.50	MADE GROUND: Firm, grey-brown, slightly sandy, slightly gravelly, reworked Clay. Sand is fine to coarse. Gravel is fine to coarse, angular to subangular of mudstone, siltstone, and sandstone.							
		7.80	75.10								
		8.60	74.30		8.70 - 8.73	SPT (S)	N=50+ (25 for 10mm/50 for 20mm)				
		9.30	73.60	MADE GROUND: Firm, red-brown, slightly sandy, slightly gravelly Clay. Sand is fine to coarse. Gravel is fine to coarse, angular to subangular of mudstone, siltstone, and sandstone.							
		10.20	72.70	MADE GROUND: Grey, fused, solid Slag.	10.20 - 10.24	SPT (S)	N=50+ (25 for 15mm/50 for 30mm)				
				Grey MUDSTONE bedrock. Borehole prepared for rotary at 10.20m.							
				Rotary core: Weak, thinly laminated, dark grey, extremely close-closely spaced, stepped-undulating roughness, open apertures MUDSTONE.				48	19	13	NI 0 200
		13.20	69.70	Rotary core: Medium strong, thinly laminated, light grey-brown, very close-medium closely spaced, open apertures SANDSTONE.				60	43	43	NI 150 270
		13.80	69.10	Rotary core: Weak, thinly laminated, dark grey, extremely close-closely spaced, stepped-undulating roughness, open apertures MUDSTONE.							
		14.70	68.20	Rotary core: Medium strong, thinly laminated, light grey-brown, very close-medium closely spaced, open apertures SANDSTONE.				73	63	52	20 100 380
		15.30	67.60	Rotary core: Weak, thinly laminated, dark grey, extremely close-closely spaced, stepped-undulating roughness, open apertures MUDSTONE.							
		16.20	66.70	Red-brown MUDSTONE. No loss of flush and consistent output.							

Hole Diameter		Casing Depths		General Remarks
Depth Base (m)	Diameter (mm)	Depth Base (m)	Diameter (mm)	1.2m Hand excavated inspection pit dug. Groundwater encountered at 5.70m & 8.70m.

Flush Returns				Ground Water				
From (m)	To (m)	Flush Type	Flush (%)	Depth Strike (m)	Depth Casing (m)	Depth Sealed (m)	Time Elapsed (min)	Water Level (m)
				8.70				

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BH03

Contract no:	NE-26-021	**Site:**	Leconfield Industrial Estate, Cleator Moor	**Driller:**	L&A Drilling Ltd
				Plant used:	Beretta T44
				Started:	16/04/2026
Client:	Morgan Sindall			**Ended:**	17/04/2026
Method:	Open Hole & Rotary			**Backfilled:**	17/04/2026

GL (AOD):	82.90m	
Easting:	515514.02	
Northing:	301704.35	
Logged:	TJ	
Status:	DRAFT	

Backfill / Installation	Legend	Depth (m)	Level (m AOD)	Stratum Description	Samples and Insitu Testing: Depth (m)	Type	Results	Coring / Fractures: TCR (%)	SCR (%)	RQD (%)	Fracture
				Red-brown MUDSTONE. No loss of flush and consistent output.							
		32.20	50.70	Dark grey MUDSTONE. No loss of flush and consistent output.							
		40.00	42.90	End of Borehole at 40.000m							

Hole Diameter		Casing Depths		General Remarks
Depth Base (m)	Diameter (mm)	Depth Base (m)	Diameter (mm)	1.2m Hand excavated inspection pit dug. Groundwater encountered at 5.70m & 8.70m.

Flush Returns				Ground Water				
From (m)	To (m)	Flush Type	Flush (%)	Depth Strike (m)	Depth Casing (m)	Depth Sealed (m)	Time Elapsed (min)	Water Level (m)
				8.70				

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BH04

Contract no:	NE-26-021	**Site:**	Leconfield Industrial Estate, Cleator Moor	**Driller:**	L&A Drilling Ltd
				Plant used:	Beretta T44
				Started:	09/04/2026
Client:	Morgan Sindall			**Ended:**	13/04/2026
Method:	Open Hole & Rotary			**Backfilled:**	13/04/2026

GL (AOD):	83.27m
Easting:	515557.69
Northing:	301699.20
Logged:	TJ
Status:	DRAFT

Backfill / Installation	Legend	Depth (m)	Level (m AOD)	Stratum Description	Samples and Insitu Testing: Depth (m)	Type	Results	Coring / Fractures: TCR (%)	SCR (%)	RQD (%)	Fracture
		0.20	83.07	MADE GROUND: Grey Concrete with metal rebar.	0.00 - 0.10	B+ES					
		0.40	82.87	MADE GROUND: Red-brown, sandy, gravelly, cobbly, reworked Clay. Sand is fine to coarse. Gravel is fine to coarse, angular to subangular of mudstone, sandstone, concrete, brick, and slag.	0.30 - 0.40	B+ES					
					0.50 - 0.60	B+ES					
				MADE GROUND: Grey, fused, solid Slag.							
		7.60	75.67	Red-brown, sandy, gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse, angular to subangular of mudstone, siltstone, and sandstone.	8.70 - 9.15	SPT (S)	N=16 (4,4/3,4,4,5)				
					10.20 - 10.25	SPT (S)	N=50+ (25 for 20mm/50 for 30mm)				
		11.70	71.57	Weak, thinly laminated, light grey-red, extremely close-closely spaced, stepped-undulating roughness, open apertures MUDSTONE with very closely spaced, thinly laminated inter bedded siltstone.	11.70 - 11.74	SPT (S)	N=50+ (25 for 15mm/50 for 25mm)				
		13.78	69.49	COAL seam.				45	40	21	NI 100 120
		13.86	69.41	Weak, thinly laminated, light grey-red, extremely close-closely spaced, stepped-undulating roughness, open apertured MUDSTONE with very closely spaced, thinly laminated interbedded siltstone.				31	31	25	NI 180 200
								43	43	29	NI 100 230
		17.70	65.57	Red-brown MUDSTONE. No loss of flush and consistent output.							
		25.70	57.57	Dark grey MUDSTONE. No loss of flush and consistent output.							
		30.00	53.27	End of Borehole at 30.000m							

Hole Diameter		Casing Depths		General Remarks
Depth Base (m)	Diameter (mm)	Depth Base (m)	Diameter (mm)	1.2m Hand excavated inspection pit dug. No groundwater encountered.

Flush Returns			
From (m)	To (m)	Flush Type	Flush (%)

Ground Water				
Depth Strike (m)	Depth Casing (m)	Depth Sealed (m)	Time Elapsed (min)	Water Level (m)
5.70				

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Rotary Open Hole Log

Scale 1:150 Sheet 1 of 1

BH05

Contract no:	NE-26-021	**Site:**	Leconfield Industrial Estate, Cleator Moor	**Driller:**	L&A Drilling Ltd
				Plant used:	Beretta T44
				Started:	08/04/2026
Client:	Morgan Sindall			**Ended:**	09/04/2026
Method:	Open Hole & Rotary			**Backfilled:**	09/04/2026

GL (AOD):	83.26m		
Easting:	515547.74		
Northing:	301720.54		
Logged:	TJ		
Status:	DRAFT		

Backfill / Installation	Legend	Depth (m)	Level (m AOD)	Stratum Description	Samples and Insitu Testing: Depth (m)	Type	Results	Coring / Fractures: TCR (%)	SCR (%)	RQD (%)	Fracture
		0.30	82.96	MADE GROUND: Grey Concrete with metal rebar.	0.00 - 0.10	B+ES					
				MADE GROUND: Red-brown, sandy, gravelly, cobbly, reworked Clay. Sand is fine to coarse. Gravel is fine to coarse, angular to subangular of mudstone, sandstone, concrete, brick, and slag.	0.30 - 0.40	B+ES					
					0.50 - 0.60	B+ES					
		3.70	79.56	MADE GROUND: Grey, fused, solid Slag.							
		7.10	76.16	Red-brown, sandy, gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse, angular to subangular of mudstone, siltstone, and sandstone.	8.70 - 9.15	SPT (S)	N=16 (4,4/5,4,3,4)				
					10.20 - 10.65	SPT (S)	N=24 (4,5/6,6,5,7)				
		11.70	71.56	Rotary core: Weak, thinly laminated, light grey-red, extremely close-closely spaced, stepped-undulating roughness, open apertures MUDSTONE with very closely spaced, thinly laminated inter bedded siltstone.	11.70 - 11.89	SPT (S)	N=50+ (25/50)	13	0	0	NI 0 0
					13.20 - 13.38	SPT (S)	N=50+ (25/50)	37	15	15	NI 110 110
		14.70	68.56	Rotary core: Weak, thinly laminated, dark grey, extremely closely spaced, stepped- undulating roughness, open apertures MUDSTONE.				65	3	0	NI 0 40
		16.20	67.06	Rotary core: Weak, thinly laminated, light grey extremely close-closely spaced, stepped- undulating roughness, open apertures MUDSTONE with very closely spaced, thinly laminated interbedded siltstone.				67	33	12	NI 80 180
		16.90	66.36								
		17.10	66.16	Rotary core: Weak, black COAL.							
				Rotary core: Weak, thinly laminated, light grey extremely close-closely spaced, stepped- undulating roughness, open apertured MUDSTONE with very closely spaced, thinly laminated interbedded siltstone.							
		21.60	61.66	Red-brown MUDSTONE. No loss of flush and consistent output.							
		23.90	59.36	Dark grey MUDSTONE. No loss of flush and consistent output.							
		30.00	53.26	End of Borehole at 30.000m							

Hole Diameter		Casing Depths		General Remarks
Depth Base (m)	Diameter (mm)	Depth Base (m)	Diameter (mm)	1.2m Hand excavated inspection pit dug. Groundwater encountered at 7.20m & 21.00m.

Flush Returns				Ground Water				
From (m)	To (m)	Flush Type	Flush (%)	Depth Strike (m)	Depth Casing (m)	Depth Sealed (m)	Time Elapsed (min)	Water Level (m)
				7.20 21.00				