

Earth Science Partnership Consulting Engineers Geologists Environmental Scientists						Project Name: Flying Start, Dowlais Primary School			Drilling method Rotary open hole			BH1							
						Site Location: Dowlais			Equipment KLEMM										
Start date: 19/05/2020			Driller: DP			Client: MTCBC			Ground Level: 323.00 mOD										
End date: 19/05/2020			Logged by: AB			Project No: 7485d			Easting: 307020 m										
Backfill date: 20/05/2020						Date logged: 19/05/2020			Northing: 207989 m										
Core Details and SPT Data							Strata Details							Water	Depth		Backfill/Installations		
Depth (Length)		TCR (%)	SCR (%)	RQD (%)	FI	SPT-N	Depth	Description			Legend	Strikes/Standing	Depth (Thickness)	mOD					
						11 (2,7/11 for 150mm)	0.5	Brown silty SAND with fine to coarse gravel and coal dust. Driller's description only. (MADE GROUND)					(0.20)	322.80					
							1.0	Light brown mottled sandy CLAY with fine to coarse gravel cobbles and boulders. Driller's description only. (GLACIAL DIAMICTON)					(1.00)						
1.20 - 2.30 (1.10)		77					1.5	Medium dense dark brown gravelly silty fine to coarse SAND. Gravel is fine to medium angular to subangular consisting of mudstone. (GLACIAL DIAMICTON)					(1.10)	321.80					
2.30 - 2.40		0				50 (11,8/8,16,17,9)	2.0												
							2.5	Light brown mottled sandy CLAY with fine to coarse gravel, cobbles and boulders. Driller's description only. (PROBABLE GLACIAL DIAMICTON)					(1.30)	320.70					
							3.0												
						50 (25 for 0mm/50 for 0mm)	3.5												
						50 (10,11/50 for 225mm)	4.0	Very dense grey Ironstone BOULDER. Driller's description only. (PROBABLE GLACIAL DIAMICTON)					(0.70)	319.40					
							4.5	Very dense brown sandy silty fine to coarse GRAVEL with cobbles and boulders. Driller's description only. (PROBABLE GLACIAL DIAMICTON)					4.30	318.70					
							5.0												
							5.5						(2.20)						
							6.0												
6.50 - 7.00 (0.50)		45				50 (8,7/8,12,19,11)	6.5	Firm dark grey mottled black sandy gravelly silty CLAY with Boulders. Sand is fine to coarse, gravel is fine to medium subangular to subrounded consisting of mudstone. (GLACIAL DIAMICTON)					6.50	316.50					
							7.0	Very dense brown sandy silty fine to coarse GRAVEL with cobbles and boulders. Driller's description only. (PROBABLE GLACIAL DIAMICTON)					(0.50)	316.00					
							7.5						(1.40)						
							8.0												
							8.5	Brown MUDSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)					8.40	314.60					
							9.0						(0.80)						
							9.5	Grey SANDSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)					9.20	313.80					
								Grey MUDSTONE. Driller's description only.					(0.50)	313.30					
Progress & Standing Water Levels						Water Strikes										Hole Diameter		Casing Diameter	
Date	Time	Hole Depth	Casing Depth	Water Depth	Date	Time	Strike Depth	Casing Depth	Elapsed Minutes	Depth to Water	Depth Sealed				Hole Depth	Hole Diameter	Casing Diameter	Casing Depth	
					19/05/2020	12:00	13.00	3.80	0.00	0.00							125	3.80	
General Remarks																			
1. Coordinates and ground levels obtained from topographic survey and are approximate only.																			
2. Borehole advanced using dynamic sampling and rotary openhole methods to 40.0m.																			
3. Groundwater strike at 13m.																			
4. Single 50mm monitoring standpipe installed with resonse zone between 1 - 5m. Bentonite and arising were placed below in accordance with Coal Authority requirements.																			

Earth Science Partnership

Consulting Engineers | Geologists | Environmental Scientists

Project Name:
Flying Start, Dowlais Primary School

Site Location:
Dowlais

Client:
MTCBC

Project No:
7485d

Drilling method
Rotary open hole

Equipment
KLEMM

Ground Level: 323.00 mOD

Easting: 307020 m

Northing: 207989 m

Start date: 19/05/2020

End date: 19/05/2020

Backfill date: 20/05/2020

Driller: DP

Logged by: AB

Date logged: 19/05/2020

BH1

Core Details and SPT Data						Strata Details			Water	Depth		Backfill/ Install- ations
Depth (Length)	TCR (%)	SCR (%)	RQD (%)	FI	SPT-N	Depth	Description	Legend	Strikes/ Standing	Depth (Thickness)	mOD	
						20.5	Grey MUDSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)			20.60	302.40	
						21.0	COAL. Driller's description only. (PROBABLE LOWER COAL MEASURES)			(0.90)		
						21.5	Grey MUDSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)			21.50	301.50	
						22.0						
						22.5						
						23.0						
						23.5						
						24.0						
						24.5						
						25.0						
						25.5	Grey SANDSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)			25.10	297.90	
						26.0				(1.20)		
						26.5	Grey MUDSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)			26.30	296.70	
						27.0						
						27.5						
28.0												
28.5												
29.0												
29.5												

Progress & Standing Water Levels					Water Strikes									Hole Diameter		Casing Diameter		
Date	Time	Hole Depth	Casing Depth	Water Depth	Date	Time	Strike Depth	Casing Depth	Elapsed Minutes	Depth to Water	Depth Sealed				Hole Depth	Hole Diameter	Casing Diameter	Casing Depth
					19/05/2020	12:00	13.00	3.80	0.00	0.00							125	3.80

General Remarks

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Core Details and SPT Data						Strata Details			Water	Depth		Backfill/ Install- ations
Depth (Length)	TCR (%)	SCR (%)	RQD (%)	FI	SPT-N	Depth	Description	Legend	Strikes/ Standing	Depth (Thickness)	mOD	
						30.5	Grey MUDSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)			(8.50)		
						31.0						
						31.5						
						32.0						
						32.5						
						33.0						
						33.5						
						34.0						
						34.5						
						35.0						
						35.0	Grey IRONSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)			34.80	288.20	
						35.5						
						36.0						
						36.5						
						37.0						
						37.5						
						38.0						
						38.5						
						39.0						
						39.5						

Progress & Standing Water Levels					Water Strikes									Hole Diameter		Casing Diameter		
Date	Time	Hole Depth	Casing Depth	Water Depth	Date	Time	Strike Depth	Casing Depth	Elapsed Minutes	Depth to Water	Depth Sealed				Hole Depth	Hole Diameter	Casing Diameter	Casing Depth
					19/05/2020	12:00	13.00	3.80	0.00	0.00							125	3.80

General Remarks

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3. Groundwater strike at 13m.

4. Single 50mm monitoring standpipe installed with resonse zone between 1 - 5m. Bentonite and arising were placed below in accordance with Coal Authority requirements.

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Core Details and SPT Data						Strata Details			Water	Depth		Backfill/ Install- ations
Depth (Length)	TCR (%)	SCR (%)	RQD (%)	FI	SPT-N	Depth	Description	Legend	Strikes/ Standing	Depth (Thickness)	mOD	
							End of Borehole at 40.000m			40.00	283.00	
						40.5						
						41.0						
						41.5						
						42.0						
						42.5						
						43.0						
						43.5						
						44.0						
						44.5						
						45.0						
						45.5						
						46.0						
						46.5						
						47.0						
						47.5						
						48.0						
						48.5						
						49.0						
						49.5						

Progress & Standing Water Levels					Water Strikes									Hole Diameter		Casing Diameter		
Date	Time	Hole Depth	Casing Depth	Water Depth	Date	Time	Strike Depth	Casing Depth	Elapsed Minutes	Depth to Water	Depth Sealed				Hole Depth	Hole Diameter	Casing Diameter	Casing Depth
					19/05/2020	12:00	13.00	3.80	0.00	0.00							125	3.80

General Remarks

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2. Borehole advanced using dynamic sampling and rotary openhole methods to 40.0m.

3. Groundwater strike at 13m.

4. Single 50mm monitoring standpipe installed with resonse zone between 1 - 5m. Bentonite and arising were placed below in accordance with Coal Authority requirements.

Earth Science Partnership Consulting Engineers Geologists Environmental Scientists				Project Name: Flying Start, Dowlais Primary School Site Location: Dowlais Client: MTCBC Project No: 7485d				Drilling method Rotary open hole Equipment KLEMM Ground Level: 323.00 mOD Easting: 307016 m Northing: 207972 m				BH2																	
Start date: 20/05/2020 End date: 20/05/2020 Backfill date: 21/05/2020				Driller: DP Logged by: AB Date logged: 20/05/2020																									
Core Details and SPT Data												Strata Details												Water		Depth		Backfill/Installations	
Depth (Length)		TCR (%)		SCR (%)		RQD (%)		FI		SPT-N		Depth		Description				Legend		Strikes/ Standing		Depth (Thickness)		mOD					
										43 (8,6/8,9,15,11)		0.5		Dark brown mottled Black sandy silty fine to coarse GRAVEL. Driller's description only. (MADE GROUND)								(0.45)							
												1.0		Dense black compacted sandy silty fine to coarse GRAVEL and coal dust. Driller's description only. (MADE GROUND)								(0.75)							
1.20 - 2.30 (1.10)		55										1.5		Stiff to firm dark brown mottled black gravelly very sandy silty CLAY with boulders. Sand is fine to coarse, gravel is fine to coarse subangular to subrounded consisting of mudstone and coal. (GLACIAL DIAMICTON)								1.20		321.80					
												2.0		Very dense brown clayey fine to coarse GRAVEL with cobbles and boulders. Driller's description only. (PROBABLE GLACIAL DIAMICTON)								1.65		321.35					
2.30 - 2.40		0										2.5																	
										50 (14 for 0mm/50 for 0mm)		3.0																	
												3.5																	
												4.0																	
										50 (9,15/50 for 225mm)		4.5																	
												5.0																	
												5.5																	
												6.0																	
												6.5																	
										50 (16,9/50 for 150mm)		7.0		Brown MUDSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)								6.70		316.30					
												7.5																	
												8.0																	
												8.5																	
												9.0										(4.70)							

Earth Science Partnership
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Start date:	20/05/2020
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End date: 20/05/2020

Backfill date: 21/05/2020

Driller:	DP
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Logged by: AB

Date logged: 20/05/2020

Project Name:
Flying Start, Dowlais Primary
School

Site Location:

Dowlais

Client:

MTCBC
Project No:

Drilling method
Rotary open hole

Equipment
KLEMM

Ground Level: 323.00 mOD

Easting: 307016 m

Northings: 207972 m

BH2

Core Details and SPT Data						Strata Details			Water	Depth		Backfill/ Install- ations		
Depth (Length)	TCR (%)	SCR (%)	RQD (%)	FI	SPT-N	Depth	Description	Legend	Strikes/ Standing	Depth (Thickness)	mOD			
						10.5	Brown MUDSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)				11.40	311.60		
						11.0								
						11.5							Grey mottled brown SANDSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)	
						12.0								
						12.5								
						13.0								
						13.5								
						14.0								
						14.5								
						15.0	Brown mottled grey MUDSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)				14.70	308.30		
						15.5							Grey MUDSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)	
						16.0								
						16.5								
						17.0								
						17.5								
						18.0								
						18.5								
						19.0								
						19.5								

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General Remarks	
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1. Coordinates and ground levels obtained from topographic survey and are approximate only.
2. Borehole advanced using dynamic sampling and rotary openhole methods to 40.0m.
3. Single 50mm monitoring standpipe installed with resonse zone between 0.5 - 5m. Bentonite and arising were placed below in accordance with Coal Authority requirements.

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Start date: 20/05/2020

End date: 20/05/2020

Backfill date: 21/05/2020

Driller: DP

Logged by: AB

Date logged: 20/05/2020

Flying Start, Dowlais Primary School

Site Location:

Dowlais

Client:

MTCBC
Project No:

7485d

Drilling method
Rotary open hole

Equipment
KLEMM

Ground Level: 323.00 mOD

Easting: 307016 m

Northing: 207972 m

BH2

Core Details and SPT Data						Strata Details			Water	Depth		Backfill/ Install- ations
Depth (Length)	TCR (%)	SCR (%)	RQD (%)	FI	SPT-N	Depth	Description	Legend	Strikes/ Standing	Depth (Thickness)	mOD	
						20.5	Grey MUDSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)			20.90	302.10	
						21.0	COAL. Driller's description only. (PROBABLE LOWER COAL MEASURES)			(0.60)		
						21.5	Grey MUDSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)			21.50	301.50	
						22.0						
						22.5						
						23.0						
						23.5						
						24.0						
						24.5						
						25.0						
						25.5						
						26.0						
						26.5						
						27.0						
						27.5						
						28.0						
						28.5						
						29.0						
						29.5						

[illegible]

General Remarks

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Driller: DP

Logged by: AB

Date logged: 20/05/2020

Dowlais

MTCBC

7485d

Equipment
KLEMM

Easting: 307016 m

Easting: 307016 m

Northing: 207972 m

BH2

[illegible]

General Remarks	
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1. Coordinates and ground levels obtained from topographic survey and are approximate only.
2. Borehole advanced using dynamic sampling and rotary openhole methods to 40.0m.
3. Single 50mm monitoring standpipe installed with resone zone between 0.5 - 5m. Bentonite and arising were placed below in accordance with Coal Authority requirements.

Earth Science Partnership Consulting Engineers Geologists Environmental Scientists			Project Name: Flying Start, Dowlais Primary School Site Location: Dowlais Client: MTCBC Project No: 7485d		Drilling method Rotary open hole Equipment KLEMM Ground Level: 323.00 mOD Easting: 307016 m Northing: 207972 m		BH2		
Start date: 20/05/2020		Driller: DP							
End date: 20/05/2020		Logged by: AB							
Backfill date: 21/05/2020		Date logged: 20/05/2020							

Core Details and SPT Data						Strata Details			Water	Depth		Backfill/ Install- ations
Depth (Length)	TCR (%)	SCR (%)	RQD (%)	FI	SPT-N	Depth	Description	Legend	Strikes/ Standing	Depth (Thickness)	mOD	
							End of Borehole at 40.000m			40.00	283.00	
						40.5						
						41.0						
						41.5						
						42.0						
						42.5						
						43.0						
						43.5						
						44.0						
						44.5						
						45.0						
						45.5						
						46.0						
						46.5						
						47.0						
						47.5						
						48.0						
						48.5						
						49.0						
						49.5						

Progress & Standing Water Levels					Water Strikes										Hole Diameter		Casing Diameter	
Date	Time	Hole Depth	Casing Depth	Water Depth	Date	Time	Strike Depth	Casing Depth	Elapsed Minutes	Depth to Water	Depth Sealed				Hole Depth	Hole Diameter	Casing Diameter	Casing Depth
																	125	3.70

General Remarks

1. Coordinates and ground levels obtained from topographic survey and are approximate only.

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3. Single 50mm monitoring standpipe installed with resonance zone between 0.5 - 5m. Bentonite and arising were placed below in accordance with Coal Authority requirements.

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Flying Start, Dowlais Primary School

Site Location:

Dowlais

Client:

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7485d

Drilling method

Rotary open hole

Equipment

KLEMM

Ground Level:

323.00 mOD

Easting:

307040 m

Northing:

207972 m

Start date:

21/05/2020

End date:

21/05/2020

Backfill date:

22/05/2020

Driller:

DP

Logged by:

AB

Date logged:

21/05/2020

BH3

Core Details and SPT Data

Depth (Length)	TCR (%)	SCR (%)	RQD (%)	FI	SPT-N
					4 (1,3/2,0,1,1)
1.20 - 2.50 (1.30)	77				
2.50 - 2.50	0				50 (25 for 0mm/50 for 0mm)
					50 (25 for 0mm/50 for 0mm)
					50 (19,16/50 for 150mm)

Strata Details

Depth	Description	Legend
	Brown silty SAND with fine to coarse gravel. Driller's description only. (MADE GROUND)	
0.5	Black silty SAND with fine to coarse gravel brick and coal dust. Driller's description only. (MADE GROUND)	
1.0	Light brown mottled sandy silty fine to coarse GRAVEL with cobbles and boulders. Driller's description only. (PROBABLE GLACIAL DIAMICTON)	
1.5	Stiff to firm locally soft brown mottled orange sandy gravelly slightly silty CLAY. Sand is fine to coarse, gravel is fine to coarse angular to subrounded consisting of mudstone. (GLACIAL DIAMICTON)	
2.0		
2.5	Very dense light brown mottled sandy silty fine to coarse GRAVEL with cobbles and boulders. Driller's description only. (PROBABLE GLACIAL DIAMICTON)	
3.0		
3.5		
4.0		
4.5		
5.0		
5.5		
6.0		
6.5		
7.0	Brown MUDSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)	
7.5	Grey MUDSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)	
8.0		
8.5		
9.0		
9.5		

Water

Strikes/ Standing

Depth (Thickness)

mOD

Backfill/ Install-ations

Progress & Standing Water Levels

Date	Time	Hole Depth	Casing Depth	Water Depth
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Water Strikes

Date	Time	Strike Depth	Casing Depth	Elapsed Minutes	Depth to Water	Depth Sealed
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Hole Diameter

Casing Diameter

Hole Depth

Hole Diameter

Casing Diameter

Casing Depth

General Remarks

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Start date:	21/05/2020
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Driller: DP

End date: 21/05/2020

Logged by: AB

Backfill date: 22/05/2020

Date logged: 21/05/2020

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Site Location:

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Project No:

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Easting: 307040 m

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BH3

Core Details and SPT Data						Strata Details			Water	Depth		Backfill/ Install- ations		
Depth (Length)	TCR (%)	SCR (%)	RQD (%)	FI	SPT-N	Depth	Description	Legend	Strikes/ Standing	Depth (Thickness)	mOD			
						10.5	Grey MUDSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)				11.40	311.60		
						11.0								
						11.5							Brown SANDSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)	
						12.0								
						12.5								
						13.0								
						13.5								
						14.0								
						14.5	Grey MUDSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)				14.30	308.70		
						15.0								
						15.5								
						16.0								
						16.5								
						17.0								
						17.5					(6.20)			
						18.0								
						18.5								
						19.0								
						19.5								

[illegible]

General Remarks	
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1. Coordinates and ground levels obtained from topographic survey and are approximate only.
2. Borehole advanced using dynamic sampling and rotary openhole methods to 40.0m.
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Depth (Length)	TCR (%)	SCR (%)	RQD (%)	FI	SPT-N	Depth	Description	Legend	Strikes/ Standing	Depth (Thickness)	mOD	
							Grey MUDSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)					
						20.5	COAL. Driller's description only. (PROBABLE LOWER COAL MEASURES)			20.50	302.50	
						21.0				21.10	301.90	
						21.5	Grey MUDSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)					
						22.0						
						22.5						
						23.0						
						23.5						
						24.0						
						24.5						
						25.0						
						25.5						
						26.0						
						26.5						
						27.0						
						27.5						
						28.0						
						28.5						
						29.0						
						29.5						

Progress & Standing Water Levels					Water Strikes									Hole Diameter		Casing Diameter		
Date	Time	Hole Depth	Casing Depth	Water Depth	Date	Time	Strike Depth	Casing Depth	Elapsed Minutes	Depth to Water	Depth Sealed				Hole Depth	Hole Diameter	Casing Diameter	Casing Depth
																	125	3.80

General Remarks

1. Coordinates and ground levels obtained from topographic survey and are approximate only.

2. Borehole advanced using dynamic sampling and rotary openhole methods to 40.0m.

3. Single 50mm monitoring standpipe installed with resonance zone between 0.5 - 5m. Bentonite and arising were placed below in accordance with Coal Authority requirements.

Earth Science Partnership

Consulting Engineers | Geologists | Environmental Scientists

Project Name:
Flying Start, Dowlais Primary School

Site Location:
Dowlais

Client:
MTCBC

Project No:
7485d

Drilling method
Rotary open hole

Equipment
KLEMM

Ground Level: 323.00 mOD

Easting: 307040 m

Northing: 207972 m

Start date: 21/05/2020

End date: 21/05/2020

Backfill date: 22/05/2020

Driller: DP

Logged by: AB

Date logged: 21/05/2020

BH3

Core Details and SPT Data						Strata Details			Water	Depth		Backfill/ Install- ations
Depth (Length)	TCR (%)	SCR (%)	RQD (%)	FI	SPT-N	Depth	Description	Legend	Strikes/ Standing	Depth (Thickness)	mOD	
							End of Borehole at 40.000m			40.00	283.00	
						40.5						
						41.0						
						41.5						
						42.0						
						42.5						
						43.0						
						43.5						
						44.0						
						44.5						
						45.0						
						45.5						
						46.0						
						46.5						
						47.0						
						47.5						
						48.0						
						48.5						
						49.0						
						49.5						

Progress & Standing Water Levels					Water Strikes										Hole Diameter		Casing Diameter	
Date	Time	Hole Depth	Casing Depth	Water Depth	Date	Time	Strike Depth	Casing Depth	Elapsed Minutes	Depth to Water	Depth Sealed				Hole Depth	Hole Diameter	Casing Diameter	Casing Depth
																	125	3.80

General Remarks

1. Coordinates and ground levels obtained from topographic survey and are approximate only.

2. Borehole advanced using dynamic sampling and rotary openhole methods to 40.0m.

3. Single 50mm monitoring standpipe installed with resonance zone between 0.5 - 5m. Bentonite and arising were placed below in accordance with Coal Authority requirements.

Earth Science Partnership

Consulting Engineers | Geologists | Environmental Scientists

Consulting Engineers | Geologists | Environmental Scientists

Driller: DP

Logged by: AB

Date logged: 22/05/2020

Flying Start, Dowlais Primary School

Site Location:
Dowlais

Client:

MTCBC

Project No:

7485d

Rotary open hole

Equipment
KLEMM

Ground Level: 323.00 mOD

Easting: 307022 m

Northings: 207977 m

BH4

Core Details and SPT Data						Strata Details			Water	Depth		Backfill/ Install- ations						
Depth (Length)	TCR (%)	SCR (%)	RQD (%)	FI	SPT-N	Depth	Description	Legend	Strikes/ Standing	Depth (Thickness)	mOD							
						0.5	Light brown mottled sandy silty fine to coarse GRAVEL with cobbles and boulders. Driller's description only. (PROBABLE GLACIAL DIAMICTON)			(3.80)								
						1.0												
						1.5												
						2.0												
						2.5												
						3.0												
						3.5												
						4.0												
						4.5												
						5.0												
						6.5	Brown mottled sandy silty fine to coarse GRAVEL with cobbles and boulders. Driller's description only. (PROBABLE GLACIAL DIAMICTON)			3.80	319.20							
						7.0												
						7.5												
						8.0												
						8.5												
						9.0												
						9.5												
						6.5							Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			6.50	316.50	
						7.0												
						7.5												
8.0																		
8.5																		
9.0																		
9.5																		
6.5	Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			(2.70)														
7.0																		
7.5																		
8.0																		
8.5																		
9.0																		
9.5																		
6.5							Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			6.50	316.50							
7.0																		
7.5																		
8.0																		
8.5																		
9.0																		
9.5																		
6.5	Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			(3.30)														
7.0																		
7.5																		
8.0																		
8.5																		
9.0																		
9.5																		
6.5							Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20							
7.0																		
7.5																		
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6.5	Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20													
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9.5																		
6.5							Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20							
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9.5																		
6.5	Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20													
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8.5																		
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9.5																		
6.5							Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20							
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6.5	Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20													
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6.5							Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20							
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6.5	Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20													
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6.5							Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20							
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6.5	Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20													
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6.5							Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20							
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6.5	Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20													
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6.5							Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20							
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6.5	Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20													
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6.5							Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20							
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6.5	Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20													
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6.5							Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20							
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6.5	Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20													
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6.5							Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20							
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6.5							Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20							
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6.5	Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20													
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6.5	Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20													
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6.5							Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20							
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6.5	Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20													
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6.5							Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20							
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6.5	Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20													
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6.5							Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20							
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6.5	Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20													
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6.5							Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20							
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6.5	Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20													
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6.5							Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20							
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6.5	Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20													
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6.5							Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20							
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6.5	Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20													
7.0																		
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9.0																		
9.5																		
6.5							Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20							
7.0																		
7.5																		
8.0																		
8.5																		
9.0																		
9.5																		
6.5	Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20													
7.0																		
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9.5																		
6.5							Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20							
7.0																		
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6.5	Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20													
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9.5																		
6.5							Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20							
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9.0																		
9.5																		
6.5	Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20													
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9.5																		
6.5							Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20							
7.0																		
7.5																		
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9.5																		
6.5	Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20													
7.0																		
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9.5																		
6.5							Possible MUDSTONE. Very poor core recovery. Driller's description only. (PROBABLE LOWER COAL MEASURES)			9.80	313.20							
7.0																		
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8.5																		
9.0																		
9.5																		
6.5	Possible MUD																	

[illegible]

General Remarks	
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1. Coordinates and ground levels obtained from topographic survey and are approximate only.
2. Borehole advanced using rotary openhole and coring methods to 9.8m.
3. For fracture index NI indicates non-intact material, NR indicates no recovery.
4. Hole backfilled with bentonite and arisings on completion in accordance with Coal Authority requirements.

Earth Science Partnership Consulting Engineers Geologists Environmental Scientists						Project Name: Flying Start, Dowlais Primary School Site Location: Dowlais Client: MTCBC Project No: 7485d		Drilling method Rotary cored Equipment KLEMM Ground Level: 323.00 mOD Easting: 307024 m Northing: 207978 m		BH4a								
Start date: 27/05/2020		Driller: DP																
End date: 28/05/2020		Logged by: AB																
Backfill date: 28/05/2020		Date logged: 28/05/2020																
Core Details and SPT Data						Strata Details						Water	Depth		Backfill/Installations			
Depth (Length)	TCR (%)	SCR (%)	RQD (%)	FI	SPT-N	Depth	Description				Legend	Strikes/ Standing	Depth (Thickness)	mOD				
						0.5	Brown sandy silty fine to coarse GRAVEL with cobbles and boulders. Driller's description only. (PROBABLE GLACIAL DIAMICTON)											
						1.0												
						1.5												
						2.0												
						2.5												
						3.0												
						3.5												
						4.0												
						4.5												
						5.0												
						5.5												
						6.0												
						6.5												
						7.0												
						7.5												
						8.0												
						8.5	Grey mottled Brown MUDSTONE and SANDSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)						8.30	314.70				
						9.0												
						9.5												
Progress & Standing Water Levels					Water Strikes										Hole Diameter		Casing Diameter	
Date	Time	Hole Depth	Casing Depth	Water Depth	Date	Time	Strike Depth	Casing Depth	Elapsed Minutes	Depth to Water	Depth Sealed				Hole Depth	Hole Diameter	Casing Diameter	Casing Depth
																	125	8.50
General Remarks																		
1. Coordinates and ground levels obtained from topographic survey and are approximate only.																		
2. Borehole advanced using rotary openhole and rotary coring methods to 38.0m.																		
3. For fracture index NI indicates non-intact material, NR indicates no recovery.																		
4. Hole backfilled with bentonite and arisings on completion in accordance with Coal Authority requirements.																		

Earth Science Partnership

Consulting Engineers | Geologists | Environmental Scientists

Consulting Engineers | Geologists | Environmental Scientists

Start date:	27/05/2020
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Driller: DP

End date: 28/05/2020

Logged by: AB

Backfill date: 28/05/2020

Date logged: 28/05/2020

Project Name:
Flying Start, Dowlais Primary
School

Site Location:

Dowlais

Client:

MTCBC

Project No:

7485d

Drilling method

Rotary cored

Equipment

KLEMM

Ground Level: 323.00 mOD

Easting: 307024 m

Northings: 207978 m

BH4a

Core Details and SPT Data						Strata Details			Water	Depth		Backfill/ Install- ations		
Depth (Length)	TCR (%)	SCR (%)	RQD (%)	FI	SPT-N	Depth	Description	Legend	Strikes/ Standing	Depth (Thickness)	mOD			
10.00 - 10.50 (0.50)	80	0	0	NI			Very weak light grey MUDSTONE. (MODERATELY WEATHERED GRADE III - LOWER COAL MEASURES)			10.00 (0.50)	313.00			
10.50 - 11.00 (0.50)	20	12	0	40 NR		10.5		Very weak to weak light grey MUDSTONE. (FRESH GRADE I - LOWER COAL MEASURES)			10.50		312.50	
11.00 - 11.50 (0.50)	33	0	0	NI		11.0								
				20 NI		11.5							(1.75)	
11.50 - 12.25 (0.75)	100	47	28	10		12.0								
12.25 - 13.00 (0.75)	100	16	16	30		12.5	Moderately weak light grey mottled orange MUDSTONE. Locally slightly weathered (Grade II) at base between 12.25 to 13.0m. (FRESH GRADE I - LOWER COAL MEASURES)			12.25	310.75			
				NI										
				14										
				NI										
13.00 - 14.00 (1.00)	50	0	0	50		13.0								
				NI										
				34										
				NI										
				NR		13.5								
14.00 - 15.50 (1.50)	80	5	0	NI		14.0								
				36										
				NI		14.5				(4.75)				
				32		15.0								
				NR		15.5								
15.50 - 17.00 (1.50)	60	3	0	47		16.0								
				NI										
				60										
				NI										
				57		16.5								
				NR	17.0				17.00	306.00				
17.00 - 18.50 (1.50)	60	9	0	NI	17.5	Weak dark grey MUDSTONE. (SLIGHTLY WEATHERED GRADE II - LOWER COAL MEASURES)								
				47										
				NI										
				40										
				NI										
				NI										
				NR	18.0				(1.50)					
18.50 - 20.00 (1.50)	60	0	0	NI	18.5	Weak dark grey MUDSTONE. (FRESH GRADE I - LOWER COAL MEASURES)			18.50	304.50				
				50										
				NI										
				34	19.0									
				NR	19.5				(2.30)					

[illegible]

General Remarks	
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1. Coordinates and ground levels obtained from topographic survey and are approximate only.
2. Borehole advanced using rotary openhole and rotary coring methods to 38.0m.
3. For fracture index NI indicates non-intact material, NR indicates no recovery.
4. Hole backfilled with bentonite and arisings on completion in accordance with Coal Authority requirements.

Earth Science Partnership Consulting Engineers Geologists Environmental Scientists						Project Name: Flying Start, Dowlais Primary School Site Location: Dowlais		Drilling method Rotary cored Equipment KLEMM		BH4a									
Start date: 27/05/2020		Driller: DP		Client: MTCBC		Ground Level: 323.00 mOD													
End date: 28/05/2020		Logged by: AB		Project No: 7485d		Easting: 307024 m													
Backfill date: 28/05/2020						Date logged: 28/05/2020		Northing: 207978 m											
Core Details and SPT Data						Strata Details						Water	Depth		Backfill/				
Depth (Length)	TCR (%)	SCR (%)	RQD (%)	FI	SPT-N	Depth	Description			Legend	Strikes/ Standing	Depth (Thickness)	mOD	Install- ations					
20.00 - 21.50 (1.50)	80	21	0	11		20.5	Weak dark grey MUDSTONE. (FRESH GRADE I - LOWER COAL MEASURES)					20.80 (0.40)	302.20						
				NI															
				27															
				NI															
				23															
21.50 - 23.00 (1.50)	62	21	8	NI		21.0	Very weak black mottled grey COAL. (SLIGHTLY WEATHERED GRADE II - LOWER COAL MEASURES)					21.20	301.80						
				NI															
				NR															
				NI															
				19															
23.00 - 24.50 (1.50)	100	71	56	27		22.0	Weak dark grey MUDSTONE. (FRESH GRADE I - LOWER COAL MEASURES)					23.30	299.70						
				NI															
				28															
				NI															
				NR															
24.50 - 26.00 (1.50)	100	33	33	27		23.5	Weak dark grey MUDSTONE. Locally slightly weathered (Grade II) from 29.4 - 29.7m and 22.0 - 33.0m. (FRESH GRADE I - LOWER COAL MEASURES)					24.50	298.50						
				NI															
				14															
				8															
				24.5															
26.00 - 27.50 (1.50)	100	85	79	6		25.0						(8.50)							
				NI															
				2															
				26.0															
				26.5															
27.50 - 29.00 (1.50)	95	84	79	23		27.0													
				4															
				27.5															
				28.0															
				28.5															
29.00 - 30.50 (1.50)	90	15	8	20		29.0													
				NI															
				24															
				NI															
				20															
Progress & Standing Water Levels					Water Strikes								Hole Diameter		Casing Diameter				
Date	Time	Hole Depth	Casing Depth	Water Depth	Date	Time	Strike Depth	Casing Depth	Elapsed Minutes	Depth to Water	Depth Sealed				Hole Depth	Hole Diameter	Casing Diameter	Casing Depth	
																	125	8.50	
General Remarks																			
1. Coordinates and ground levels obtained from topographic survey and are approximate only.																			
2. Borehole advanced using rotary openhole and rotary coring methods to 38.0m.																			
3. For fracture index NI indicates non-intact material, NR indicates no recovery.																			
4. Hole backfilled with bentonite and arisings on completion in accordance with Coal Authority requirements.																			

Earth Science Partnership

Consulting Engineers | Geologists | Environmental Scientists

Consulting Engineers | Geologists | Environmental Scientists

Backfill date: 28/05/2020

Logged by: AB

Date logged: 28/05/2020

Site Location:

Dowlais

Client:

MTCBC
Project No:

7485d

Rotary cored

Equipment

Equipment
KLEMM

Ground Level: 323.00 mOD

Easting: 307024 m

Northings: 207978 m

BH4a

Core Details and SPT Data					Strata Details			Water	Depth		Backfill/ Install- ations	
Depth (Length)	TCR (%)	SCR (%)	RQD (%)	FI	SPT-N	Depth	Description	Legend	Strikes/ Standing	Depth (Thickness)		mOD
30.50 - 32.00 (1.50)	91	15	0	NI		30.5	Weak dark grey MUDSTONE. Locally slightly weathered (Grade II) from 29.4 - 29.7m and 22.0 - 33.0m. (FRESH GRADE I - LOWER COAL MEASURES)					
				20								
				NR								
				27								
				45								
				NI								
				41								
NR												
32.00 - 33.50 (1.50)	100	44	17	40								
				NI								
				29								
				11								
33.50 - 35.00 (1.50)	100	47	34	7		33.5		Strong light grey mottled orange IRONSTONE. (FRESH GRADE I - LOWER COAL MEASURES)				
				20								
				NI								
35.00 - 36.50 (1.50)	97	93	86	6	34.0	Weak dark grey MUDSTONE. (FRESH GRADE I - LOWER COAL MEASURES)						
					34.5							
					35.0							
36.50 - 38.00 (1.50)	100	88	56	9	35.5							
					36.0							
					36.5							
				12	37.0							
					37.5							
					38.0							
					38.5							
					39.0							
					39.5							
38.0	End of Borehole at 38.000m											
38.5												
39.0												
39.5												

[illegible]

General Remarks	
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1. Coordinates and ground levels obtained from topographic survey and are approximate only.
2. Borehole advanced using rotary openhole and rotary coring methods to 38.0m.
3. For fracture index NI indicates non-intact material, NR indicates no recovery.
4. Hole backfilled with bentonite and arisings on completion in accordance with Coal Authority requirements.

Earth Science Partnership

Consulting Engineers | Geologists | Environmental Scientists

Project Name:
Flying Start, Dowlais Primary School

Site Location:
Dowlais

Client:
MTCBC

Project No:
7485d

Drilling method
Rotary cored

Equipment
KLEMM

Ground Level: 323.00 mOD

Easting: 307024 m

Northing: 207978 m

Start date: 27/05/2020

End date: 28/05/2020

Backfill date: 28/05/2020

Driller: DP

Logged by: AB

Date logged: 28/05/2020

BH4a

Core Details and SPT Data						Strata Details			Water	Depth		Backfill/ Install- ations
Depth (Length)	TCR (%)	SCR (%)	RQD (%)	FI	SPT-N	Depth	Description	Legend	Strikes/ Standing	Depth (Thickness)	mOD	
						0.5	Brown sandy silty fine to coarse GRAVEL with cobbles and boulders. Driller's description only. (PROBABLE GLACIAL DIAMICTON)					
						1.0						
						1.5						
						2.0						
						2.5						
						3.0						
						3.5						
						4.0						
						4.5						
						5.0						
						5.5						
						6.0						
						6.5						
						7.0						
						7.5						
						8.0						
						8.30	Grey mottled Brown MUDSTONE and SANDSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)			8.30	314.70	
						8.5						
						9.0						
						9.5				(1.70)		

Progress & Standing Water Levels					Water Strikes									Hole Diameter		Casing Diameter		
Date	Time	Hole Depth	Casing Depth	Water Depth	Date	Time	Strike Depth	Casing Depth	Elapsed Minutes	Depth to Water	Depth Sealed				Hole Depth	Hole Diameter	Casing Diameter	Casing Depth
																	125	8.50

General Remarks

1. Coordinates and ground levels obtained from topographic survey and are approximate only.

2. Borehole advanced using rotary openhole and rotary coring methods to 38.0m.

3. For fracture index NI indicates non-intact material, NR indicates no recovery.

4. Hole backfilled with bentonite and arisings on completion in accordance with Coal Authority requirements.

Earth Science Partnership

Consulting Engineers | Geologists | Environmental Scientists

Project Name:
Flying Start, Dowlais Primary School

Site Location:
Dowlais

Client:
MTCBC

Project No:
7485d

Drilling method
Rotary cored

Equipment
KLEMM

Ground Level: 323.00 mOD

Easting: 307024 m

Northing: 207978 m

Start date: 27/05/2020

Driller: DP

End date: 28/05/2020

Logged by: AB

Backfill date: 28/05/2020

Date logged: 28/05/2020

BH4a

Core Details and SPT Data						Strata Details			Water	Depth		Backfill/Installations
Depth (Length)	TCR (%)	SCR (%)	RQD (%)	FI	SPT-N	Depth	Description	Legend	Strikes/ Standing	Depth (Thickness)	mOD	
10.00 - 10.50 (0.50)	80	0	0	NI			Very weak light grey MUDSTONE. (MODERATELY WEATHERED GRADE III - LOWER COAL MEASURES)			10.00 (0.50)	313.00	
10.50 - 11.00 (0.50)	20	12	0	NR		10.5	Very weak to weak light grey MUDSTONE. (FRESH GRADE I - LOWER COAL MEASURES)			10.50	312.50	
11.00 - 11.50 (0.50)	33	0	0	NI		11.0						
				20		11.5				(1.75)		
				NI								
11.50 - 12.25 (0.75)	100	47	28	10		12.0						
				30								
12.25 - 13.00 (0.75)	100	16	16	NI		12.5	Moderately weak light grey mottled orange MUDSTONE. Locally slightly weathered (Grade II) at base between 12.25 to 13.0m. (FRESH GRADE I - LOWER COAL MEASURES)			12.25	310.75	
				14								
				NI		13.0						
				30								
				34								
13.00 - 14.00 (1.00)	50	0	0	NI		13.5						
				NR								
				NI		14.0						
				36								
14.00 - 15.50 (1.50)	80	5	0	NI		14.5				(4.75)		
				32								
				NR		15.0						
				47		15.5						
				NI								
15.50 - 17.00 (1.50)	60	3	0	60		16.0						
				NI								
				57		16.5						
				NR								
				NI		17.0	Weak dark grey MUDSTONE. (SLIGHTLY WEATHERED GRADE II - LOWER COAL MEASURES)			17.00	306.00	
				47								
17.00 - 18.50 (1.50)	60	9	0	NI		17.5				(1.50)		
				40								
				NI		18.0						
				26								
				NI		18.5	Weak dark grey MUDSTONE. (FRESH GRADE I - LOWER COAL MEASURES)			18.50	304.50	
				NR								
18.50 - 20.00 (1.50)	60	0	0	NI		19.0						
				50								
				NI		19.5				(2.30)		
				34								
				NR								

Progress & Standing Water Levels					Water Strikes									Hole Diameter		Casing Diameter		
Date	Time	Hole Depth	Casing Depth	Water Depth	Date	Time	Strike Depth	Casing Depth	Elapsed Minutes	Depth to Water	Depth Sealed				Hole Depth	Hole Diameter	Casing Diameter	Casing Depth
																	125	8.50

General Remarks

1. Coordinates and ground levels obtained from topographic survey and are approximate only.

2. Borehole advanced using rotary openhole and rotary coring methods to 38.0m.

3. For fracture index NI indicates non-intact material, NR indicates no recovery.

4. Hole backfilled with bentonite and arisings on completion in accordance with Coal Authority requirements.

Consulting Engineers | Geologists | Environmental Scientists

di...

Equipment
KLEMM

Consulting Engineers | Geologists | Environmental Scientists

Flying Start, Dowlais Primary School
Site Location:
Dowlais

Rotary cored

Equipment
KLEMM

Ground Level: 323.00 mOD

Easting: 307024 m

Northings: 207978 m

BH4a

Start date: 27/05/2020

Driller: DP

End date: 28/05/2020

Logged by: AB

Backfill date: 28/05/2020

Date logged: 28/05/2020

Client:

MTCBC
Project No:

7485d

Core Details and SPT Data						Strata Details			Water	Depth		Backfill/ Install- ations	
Depth (Length)	TCR (%)	SCR (%)	RQD (%)	FI	SPT-N	Depth	Description	Legend	Strikes/ Standing	Depth (Thickness)	mOD		
				NI			Weak dark grey MUDSTONE. Locally slightly weathered (Grade II) from 29.4 - 29.7m and 22.0 - 33.0m. (FRESH GRADE I - LOWER COAL MEASURES)						
				20		30.5							
				NR									
30.50 - 32.00 (1.50)	91	15	0	27		31.0							
				45		31.5							
				NI									
				41									
				NR									
32.00 - 33.50 (1.50)	100	44	17	40		32.0							
				NI									
				29		32.5							
				11		33.0							
33.50 - 35.00 (1.50)	100	47	34	20		33.5	Strong light grey mottled orange IRONSTONE. (FRESH GRADE I - LOWER COAL MEASURES)			33.00	290.00		
				NI									
				7		34.0							
35.00 - 36.50 (1.50)	97	93	86	6		34.5							
							35.0						
							35.5						
							36.0						
							36.5						
36.50 - 38.00 (1.50)	100	88	56	9		37.0							
				12		37.5							
						38.0	End of Borehole at 38.000m			38.00	285.00		
						38.5							
						39.0							
						39.5							

[illegible]

General Remarks	
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1. Coordinates and ground levels obtained from topographic survey and are approximate only.
2. Borehole advanced using rotary openhole and rotary coring methods to 38.0m.
3. For fracture index NI indicates non-intact material, NR indicates no recovery.
4. Hole backfilled with bentonite and arisings on completion in accordance with Coal Authority requirements.

Earth Science Partnership Consulting Engineers Geologists Environmental Scientists						Project Name: Flying Start, Dowlais Primary School Site Location: Dowlais Client: MTCBC Project No: 7485d		Drilling method Rotary open hole Equipment KLEMM Ground Level: 323.00 mOD Easting: 307035 m Northing: 207960 m		BH5								
Start date: 22/05/2020		Driller: DP																
End date: 22/05/2020		Logged by: AB																
Backfill date: 22/05/2020		Date logged: 25/05/2020																
Core Details and SPT Data						Strata Details						Water	Depth		Backfill/Installations			
Depth (Length)	TCR (%)	SCR (%)	RQD (%)	FI	SPT-N	Depth	Description			Legend	Strikes/ Standing	Depth (Thickness)	mOD					
						0.5	Black sandy silty fine to coarse GRAVEL with ash brick and coal dust. Driller's description only. (MADE GROUND)					(0.80)						
						1.0	Brown sandy silty fine to coarse GRAVEL with cobbles and boulders. Driller's description only. (PROBABLE GLACIAL DIAMICTON)					0.80	322.20					
						1.5												
						2.0												
						2.5												
						3.0												
						3.5												
						4.0						(6.50)						
						4.5												
						5.0												
						5.5												
						6.0												
						6.5												
						7.0												
						7.5	Brown MUDSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)					7.30	315.70					
						8.0						(1.60)						
						8.5												
						9.0	Grey MUDSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)					8.90	314.10					
						9.5												
Progress & Standing Water Levels					Water Strikes										Hole Diameter		Casing Diameter	
Date	Time	Hole Depth	Casing Depth	Water Depth	Date	Time	Strike Depth	Casing Depth	Elapsed Minutes	Depth to Water	Depth Sealed				Hole Depth	Hole Diameter	Casing Diameter	Casing Depth
																	125	3.80
General Remarks																		
1. Coordinates and ground levels obtained from topographic survey and are approximate only.																		
2. Borehole advanced using rotary openhole methods to 40.0m.																		
3. Hole backfilled with bentonite and arisings on completion in accordance with Coal Authority requirements.																		

Earth Science Partnership

Consulting Engineers | Geologists | Environmental Scientists

Project Name:
Flying Start, Dowlais Primary School

Site Location:
Dowlais

Client:
MTCBC

Project No:
7485d

Drilling method
Rotary open hole

Equipment
KLEMM

Ground Level: 323.00 mOD

Easting: 307035 m

Northing: 207960 m

Start date: 22/05/2020

End date: 22/05/2020

Backfill date: 22/05/2020

Driller: DP

Logged by: AB

Date logged: 25/05/2020

BH5

Core Details and SPT Data						Strata Details			Water	Depth		Backfill/ Install- ations
Depth (Length)	TCR (%)	SCR (%)	RQD (%)	FI	SPT-N	Depth	Description	Legend	Strikes/ Standing	Depth (Thickness)	mOD	
							Grey MUDSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)			(2.50)		
						10.5						
						11.0						
						11.5	Grey SANDSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)			11.40 (0.50)	311.60	
						12.0	Brown SANDSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)			11.90	311.10	
						12.5						
						13.0						
						13.5				(2.60)		
						14.0						
						14.5	Grey MUDSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)			14.50	308.50	
						15.0						
						15.5						
						16.0						
						16.5						
						17.0						
						17.5				(6.20)		
						18.0						
						18.5						
						19.0						
						19.5						

Progress & Standing Water Levels					Water Strikes									Hole Diameter		Casing Diameter		
Date	Time	Hole Depth	Casing Depth	Water Depth	Date	Time	Strike Depth	Casing Depth	Elapsed Minutes	Depth to Water	Depth Sealed				Hole Depth	Hole Diameter	Casing Diameter	Casing Depth
																	125	3.80

General Remarks

1. Coordinates and ground levels obtained from topographic survey and are approximate only.

2. Borehole advanced using rotary openhole methods to 40.0m.

3. Hole backfilled with bentonite and arisings on completion in accordance with Coal Authority requirements.

Earth Science Partnership

Consulting Engineers | Geologists | Environmental Scientists

Start date: 22/05/2020

End date: 22/05/2020

Backfill date: 22/05/2020

Driller: DP

Logged by: AB

Date logged: 25/05/2020

Flying Start, Dowlais Primary School

Site Location:

Dowlais

Client:

MTCBC
Project No:

Drilling method
Rotary open hole

Equipment
KLEMM

Ground Level: 323.00 mOD

Easting: 307035 m

Northings: 207960 m

BH5

[illegible]

General Remarks

1. Coordinates and ground levels obtained from topographic survey and are approximate only.
2. Borehole advanced using rotary openhole methods to 40.0m.
3. Hole backfilled with bentonite and arisings on completion in accordance with Coal Authority requirements.

Earth Science Partnership

Consulting Engineers | Geologists | Environmental Scientists

Project Name:
Flying Start, Dowlais Primary School

Site Location:
Dowlais

Client:
MTCBC

Project No:
7485d

Drilling method
Rotary open hole

Equipment
KLEMM

Ground Level: 323.00 mOD

Easting: 307035 m

Northing: 207960 m

Start date: 22/05/2020

End date: 22/05/2020

Backfill date: 22/05/2020

Driller: DP

Logged by: AB

Date logged: 25/05/2020

BH5

Core Details and SPT Data						Strata Details			Water	Depth		Backfill/ Install- ations
Depth (Length)	TCR (%)	SCR (%)	RQD (%)	FI	SPT-N	Depth	Description	Legend	Strikes/ Standing	Depth (Thickness)	mOD	
						30.5	Grey MUDSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)					
						31.0						
						31.5						
						32.0						
						32.5						
						33.0						
						33.5						
						34.0						
						34.5						
						35.0						
						35.5						
						36.0						
						36.5						
						37.0						
						37.5						
38.0	Grey MUDSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)											
38.5												
39.0												
39.5												
	Grey SANDSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)											

Progress & Standing Water Levels					Water Strikes									Hole Diameter		Casing Diameter		
Date	Time	Hole Depth	Casing Depth	Water Depth	Date	Time	Strike Depth	Casing Depth	Elapsed Minutes	Depth to Water	Depth Sealed				Hole Depth	Hole Diameter	Casing Diameter	Casing Depth
																	125	3.80

General Remarks

1. Coordinates and ground levels obtained from topographic survey and are approximate only.

2. Borehole advanced using rotary openhole methods to 40.0m.

3. Hole backfilled with bentonite and arisings on completion in accordance with Coal Authority requirements.

Earth Science Partnership

Consulting Engineers | Geologists | Environmental Scientists

Project Name:
Flying Start, Dowlais Primary School

Site Location:
Dowlais

Client:
MTCBC

Project No:
7485d

Drilling method
Rotary open hole

Equipment
KLEMM

Ground Level: 323.00 mOD

Easting: 307035 m

Northing: 207960 m

BH5

Start date: 22/05/2020

Driller: DP

End date: 22/05/2020

Logged by: AB

Backfill date: 22/05/2020

Date logged: 25/05/2020

Core Details and SPT Data						Strata Details			Water	Depth		Backfill/ Install- ations
Depth (Length)	TCR (%)	SCR (%)	RQD (%)	FI	SPT-N	Depth	Description	Legend	Strikes/ Standing	Depth (Thickness)	mOD	
						40.5	End of Borehole at 40.000m			40.00	283.00	
						41.0						
						41.5						
						42.0						
						42.5						
						43.0						
						43.5						
						44.0						
						44.5						
						45.0						
						45.5						
						46.0						
						46.5						
						47.0						
						47.5						
						48.0						
						48.5						
						49.0						
						49.5						

Progress & Standing Water Levels					Water Strikes											Hole Diameter		Casing Diameter	
Date	Time	Hole Depth	Casing Depth	Water Depth	Date	Time	Strike Depth	Casing Depth	Elapsed Minutes	Depth to Water	Depth Sealed				Hole Depth	Hole Diameter	Casing Diameter	Casing Depth	
																	125	3.80	

General Remarks

1. Coordinates and ground levels obtained from topographic survey and are approximate only.

2. Borehole advanced using rotary openhole methods to 40.0m.

3. Hole backfilled with bentonite and arisings on completion in accordance with Coal Authority requirements.

Earth Science Partnership

Consulting Engineers | Geologists | Environmental Scientists

Project Name:
Flying Start, Dowlais Primary School

Site Location:
Dowlais

Client:
MTCBC

Project No:
7485d

Drilling method
Rotary open hole

Equipment
KLEMM

Ground Level: 323.00 mOD

Easting: 307010 m

Northing: 207970 m

Start date: 26/05/2020

End date: 26/05/2020

Backfill date: 26/05/2020

Driller: DP

Logged by: AB

Date logged: 26/05/2020

BH6

Core Details and SPT Data						Strata Details			Water	Depth		Backfill/ Install- ations
Depth (Length)	TCR (%)	SCR (%)	RQD (%)	FI	SPT-N	Depth	Description	Legend	Strikes/ Standing	Depth (Thickness)	mOD	
							Brown sandy gravelly SILT. Driller's description only. (PROBABLE GLACIAL DIAMICTON)			(0.20) 0.20	322.80	
						0.5	Light brown mottled brown sandy clayey silty fine to coarse GRAVEL with cobbles and boulders. Driller's description only. (PROBABLE GLACIAL DIAMICTON)					
						1.0						
						1.5						
						2.0				(3.40)		
						2.5						
						3.0						
						3.5						
						4.0	Dark brown clayey fine to coarse GRAVEL with cobbles and boulders. Driller's description only. (PROBABLE GLACIAL DIAMICTON)			3.60	319.40	
						4.5						
						5.0						
						5.5						
						6.0				(5.10)		
						6.5						
						7.0						
						7.5						
						8.0						
						8.5						
						9.0	Grey MUDSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)			8.70	314.30	
						9.5						

Progress & Standing Water Levels					Water Strikes									Hole Diameter		Casing Diameter		
Date	Time	Hole Depth	Casing Depth	Water Depth	Date	Time	Strike Depth	Casing Depth	Elapsed Minutes	Depth to Water	Depth Sealed				Hole Depth	Hole Diameter	Casing Diameter	Casing Depth
																	125	3.80

General Remarks

1- Coordinates and ground levels obtained from topographic survey and are approximate only.

2. Borehole advanced using rotary openhole methods to 40.0m.

3. Hole backfilled with bentonite and arisings on completion in accordance with Coal Authority requirements.

Earth Science Partnership
Consulting Engineers | Geologists | Environmental Scientists

Consulting Engineers | Geologists | Environmental Scientists

Start date:	26/05/2020
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Driller: DP

End date: 26/05/2020

Logged by: AB

Backfill date: 26/05/2020

Date logged: 26/05/2020

Project Name:
Flying Start, Dowlais Primary
School

Site Location:
Dowlais

Client:

MTCBC

Project No:

7485d

Drilling method
Rotary open hole

Equipment
KLEMM

Ground Level: 323.00 mOD

Easting: 307010 m

Northing: 207970 m

BH6

Core Details and SPT Data						Strata Details			Water	Depth		Backfill/ Install- ations																						
Depth (Length)	TCR (%)	SCR (%)	RQD (%)	FI	SPT-N	Depth	Description	Legend	Strikes/ Standing	Depth (Thickness)	mOD																							
						10.5	Grey MUDSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)			(3.10)																								
						11.0																												
						11.5																												
						12.0						Brown SANDSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)		11.80	311.20																			
						12.5						Brown fractured SANDSTONE. Driller's description only. (PROBABLE LOWER COAL MEASURES)		12.20	310.80																			
						13.0	13.5	14.0					(3.30)		14.5	15.0	15.5	Grey MUDSTONE Driller's description only. (PROBABLE LOWER COAL MEASURES)		15.50	307.50	16.0	16.5	17.0	17.5	18.0			(8.60)		18.5	19.0	19.5	
						13.5																												
						14.0									(3.30)																			
						14.5																												
						15.0																												
						15.5											Grey MUDSTONE Driller's description only. (PROBABLE LOWER COAL MEASURES)		15.50	307.50														
						16.0																												
						16.5																												
						17.0																												
						17.5																												
						18.0				(8.60)																								
						18.5																												
						19.0																												
						19.5																												

[illegible]

General Remarks	
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Earth Science Partnership

Consulting Engineers | Geologists | Environmental Scientists

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Equipment
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Ground Level: 323.00 mOD

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BH6

Start date: 26/05/2020

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Core Details and SPT Data						Strata Details			Water	Depth		Backfill/Installations
Depth (Length)	TCR (%)	SCR (%)	RQD (%)	FI	SPT-N	Depth	Description	Legend	Strikes/ Standing	Depth (Thickness)	mOD	
						20.5	Grey MUDSTONE Driller's description only. (PROBABLE LOWER COAL MEASURES)					
						21.0						
						21.5						
						22.0						
						22.5						
						23.0						
						23.5						
						24.0						
						24.5				24.10	298.90	
						25.0						
						25.5	Grey SANDSTONE with Mudstone bands. Driller's description only. (PROBABLE LOWER COAL MEASURES)					
						26.0						
						26.5						
						27.0						
						27.5						
						28.0						
						28.5						
						29.0				(9.50)		
						29.5						

Progress & Standing Water Levels					Water Strikes											Hole Diameter		Casing Diameter	
Date	Time	Hole Depth	Casing Depth	Water Depth	Date	Time	Strike Depth	Casing Depth	Elapsed Minutes	Depth to Water	Depth Sealed				Hole Depth	Hole Diameter	Casing Diameter	Casing Depth	
																	125	3.80	

General Remarks

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Earth Science Partnership

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7485d

Drilling method
Rotary open hole

Equipment
KLEMM

Ground Level: 323.00 mOD

Easting: 307010 m

Northing: 207970 m

Start date: 26/05/2020

End date: 26/05/2020

Backfill date: 26/05/2020

Driller: DP

Logged by: AB

Date logged: 26/05/2020

BH6

Core Details and SPT Data						Strata Details			Water	Depth		Backfill/ Install- ations
Depth (Length)	TCR (%)	SCR (%)	RQD (%)	FI	SPT-N	Depth	Description	Legend	Strikes/ Standing	Depth (Thickness)	mOD	
						30.5	Grey SANDSTONE with Mudstone bands. Driller's description only. (PROBABLE LOWER COAL MEASURES)					
						31.0						
						31.5						
						32.0						
						32.5						
						33.0						
						33.5	Grey IRONSTONE with Mudstone bands. Driller's description only. (PROBABLE LOWER COAL MEASURES)			33.60	289.40	
						34.0						
						34.5						
						35.0						
						35.5						
						36.0						
						36.5						
						37.0						
						37.5						
						38.0						
						38.5						
						39.0						
						39.5						

Progress & Standing Water Levels					Water Strikes									Hole Diameter		Casing Diameter		
Date	Time	Hole Depth	Casing Depth	Water Depth	Date	Time	Strike Depth	Casing Depth	Elapsed Minutes	Depth to Water	Depth Sealed				Hole Depth	Hole Diameter	Casing Diameter	Casing Depth
																	125	3.80

General Remarks

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Client:
MTCBC

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7485d

Drilling method
Rotary open hole

Equipment
KLEMM

Ground Level: 323.00 mOD

Easting: 307010 m

Northing: 207970 m

BH6

Start date: 26/05/2020

Driller: DP

End date: 26/05/2020

Logged by: AB

Backfill date: 26/05/2020

Date logged: 26/05/2020

Core Details and SPT Data						Strata Details			Water	Depth		Backfill/Installations
Depth (Length)	TCR (%)	SCR (%)	RQD (%)	FI	SPT-N	Depth	Description	Legend	Strikes/Standing	Depth (Thickness)	mOD	
							End of Borehole at 40.000m			40.00	283.00	
						40.5						
						41.0						
						41.5						
						42.0						
						42.5						
						43.0						
						43.5						
						44.0						
						44.5						
						45.0						
						45.5						
						46.0						
						46.5						
						47.0						
						47.5						
						48.0						
						48.5						
						49.0						
						49.5						

Progress & Standing Water Levels					Water Strikes											Hole Diameter		Casing Diameter	
Date	Time	Hole Depth	Casing Depth	Water Depth	Date	Time	Strike Depth	Casing Depth	Elapsed Minutes	Depth to Water	Depth Sealed				Hole Depth	Hole Diameter	Casing Diameter	Casing Depth	
																	125	3.80	

General Remarks

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