



APPENDIX 8-2

BOREHOLE LOGS



Depth of Stratum Top (m)	Driller's Stratum Description	Sample / Hole / Test Details					Drilling Details					Standard Penetration Test												
		No	Type	In situ test	From (m)	To (m)	Liner Dia (mm)	Core run time (hhmm)	Total core Recovery (m)	Flush Return %	Flush Colour	Self Weight Pen (mm)	75 mm	150 mm	Seating Pen (mm)	75 mm	150 mm	225 mm	300 mm	Main Pen (mm)	N value	Casing Depth (m)	Water/flush level (m)	
0.00	Firm brown TOPSOIL		RO		0.00	15.00		0000		100	grey												0.00	0.00
0.40	Weak highly weathered grey LIMESTONE																							
1.00	Very strong light grey LIMESTONE rare fractures																							
5.00	Medium strong to Strong grey LIMESTONE with frequent clay filled fractures																							

Shift details				Drilling Equipment Details												Ground Water Record								Backfill (m)			
Start time (hhmm)	Hole (m)	Water (m)	Casing (m)	Casing (C) Open Hole (RO) Coring (RC)	Dia. (mm)	From (m)	To (m)	Barrel	Liner Type	Core Dia (mm)	Bit Type	Casing Type	Bit serial No	Flush	Polymer	Time of strike	Depth Struck (m)	Casing (m)	Inflow	5 min	10 min	15 min	20 min	Depth Seated (m)	Type	From (m)	To (m)
0945				C	140.00	0.00	2.00					Sim. Casing				1145	9.00	2.00	Fast	0.00	0.00	0.00	0.00	N/S			
				RO	154.00	0.00	2.00				DTH Button Bit		115	Air	No												
				RO	120.00	2.00	15.00				DTH Button Bit			Air	No												
1410																											

Time from	Duration (hhmm)	Remarks or details of any additional testing information, Dayworks	SPT I.D. Number	PD1	Calibration Date	01/02/2021	Project Title				
0945		CAT Scanned: Yes	SPT Rod Type	2 3/8 Regular	SPT Energy Ratio	0.00	Borrisbeg WF				
0945		Permit Completed: Yes	Drilling Crew Details			CSCS No					
		DREM (7.50m - 9.50m): highly fractured rock with clay infill	Support Operative			John Whyte	Weather	Variable		Project No	30/23
1310	0030	Dayworks: Airlift development of well	Lead Driller			Stephan Petersen	Date	10/07/2023		Day	Monday
			Site category			Green	Rig type	Knebel HY79		Borehole Number	
			Project Engineer			J Law	Inclination	Orientation		BH 1	
			Lead Driller's signature				Sheet	1 of 1		Completed	Y





Depth of Stratum Top (m)	Driller's Stratum Description	Sample / Hole / Test Details					Drilling Details				Standard Penetration Test													
		No	Type	Insitu test	From (m)	To (m)	Liner Dia (mm)	Core run time (hhmm)	Total core Recovery (m)	Flush Return %	Flush Colour	Self Weight Pen (mm)	75 mm	150 mm	Seating Pen (mm)	75 mm	150 mm	225 mm	300 mm	Main Pen (mm)	N value	Casing Depth (m)	Water/ flush level (m)	
0.00	Firm brown silty TOPSOIL		RO		0.00	24.50		0000		100	grey												0.00	0.00
0.30	Firm brown silty gravelly CLAY [BOULDER CLAY]																							
0.70	Soft dark brown PEAT																							
1.50	Loose grey gravelly SAND																							
5.30	Firm grey very sandy gravelly CLAY																							
8.80	Strong dark grey LIMESTONE rare fractures																							

Shift details				Drilling Equipment Details											Ground Water Record								Backfill (m)				
Start time (hhmm)	Hole (m)	Water (m)	Casing (m)	Casing (C) Open Hole (RO) Coring (RC)	Dia. (mm)	From (m)	To (m)	Barrel	Liner Type	Core Dia (mm)	Bit Type	Casing Type	Bit serial No	Flush	Polymer	Time of strike	Depth Struck (m)	Casing (m)	Inflow	5 min	10 min	15 min	20 min	Depth Seated (m)	Type	From (m)	To (m)
1410				C	140.00	0.00	9.50					Sim. Casing				1505	2.00	2.00	Medium	0.00	0.00	0.00	0.00	5.50			
				RO	154.00	0.00	9.50				DTH Button Bit		115	Air	No												
				RO	120.00	9.50	24.50				DTH Button Bit			Air	No	1640	18.00	9.50	Seepage	0.00	0.00	0.00	0.00	N/S			
1715	24.50	0.00	9.50																								

Time from	Duration (hhmm)	Remarks or details of any additional testing information, Dayworks	SPT I.D. Number	PD1	Calibration Date	01/02/2021	Project Title									
1410		CAT Scanned: Yes	SPT Rod Type	2 3/8 Regular	SPT Energy Ratio	0.00	Borrisbeg WF									
1410		Permit Completed: Yes	Drilling Crew Details			CSCS No										
			Support Operative	John Whyte			Weather	Variable			Project No	30/23				
			Lead Driller	Stephan Petersen			Date	10/07/2023			Day	Monday				
			Site category	Green			Rig type	Knebel HY79			Borehole Number					
			Project Engineer	J Law			Inclination		Orientation			BH	2			
			Lead Driller's signature				Sheet	1 of 2			Completed	Y				





Depth of Stratum Top (m)	Driller's Stratum Description	Sample / Hole / Test Details					Drilling Details					Standard Penetration Test												
		No	Type	In situ test	From (m)	To (m)	Liner Dia (mm)	Core run time (hhmm)	Total core Recovery (m)	Flush Return %	Flush Colour	Self Weight Pen (mm)	75 mm	150 mm	Seating Pen (mm)	75 mm	150 mm	225 mm	300 mm	Main Pen (mm)	N value	Casing Depth (m)	Water/flush level (m)	
0.00	Firm brown silty TOPSOIL		RO		0.00	12.00		0000		100	grey												0.00	0.00
0.30	Soft to firm grey sandy silty CLAY becoming gravelly																							
4.80	Medium strong to Strong dark grey LIMESTONE occasional fractures																							

Shift details				Drilling Equipment Details												Ground Water Record								Backfill (m)			
Start time (hhmm)	Hole (m)	Water (m)	Casing (m)	Casing (C) Open Hole (RO) Coring (RC)	Dia. (mm)	From (m)	To (m)	Barrel	Liner Type	Core Dia (mm)	Bit Type	Casing Type	Bit serial No	Flush	Polymer	Time of strike	Depth Struck (m)	Casing (m)	Inflow	5 min	10 min	15 min	20 min	Depth Seated (m)	Type	From (m)	To (m)
1140				C	140.00	0.00	5.20					Sim. Casing				1340	5.50	5.20	Fast	0.50	0.50	0.00	0.00	N/S			
				RO	154.00	0.00	5.20				DTH Button Bit		115	Air	No												
											DTH Button Bit			Air	No												
1625																											

Time from	Duration (hhmm)	Remarks or details of any additional testing information, Dayworks	SPT I.D. Number	PD1	Calibration Date	01/02/2021	Project Title				
1140		CAT Scanned: Yes	SPT Rod Type	2 3/8 Regular	SPT Energy Ratio	0.00	Borrisbeg WF				
1140		Permit Completed: Yes	Drilling Crew Details			CSCS No					
1525	0030	Dayworks: Airlift development of well	Support Operative			John Whyte	Weather	Variable		Project No	30/23
			Lead Driller			Stephan Petersen	Date	11/07/2023		Day	Tuesday
			Site category			Green	Rig type	Knebel HY79		Borehole Number	
			Project Engineer			J Law	Inclination	Orientation		BH 3	
			Lead Driller's signature				Sheet	1 of 1		Completed	Y

