

RECEIVED: 09/01/2024



## **APPENDIX 7-2**

### ***BOREHOLE LOGS***

Petersen Drilling Services Ltd.				on behalf of				Newtown Farming				Rotary Drilling Log																				
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 sandy TOPSOIL				RO		0.00	40.00			0000		100	grey																	0.00	Dry
0.15	Dense coarse brown sub-rounded SAND AND GRAVEL with very frequent limestone cobbles and boulders																															
2.40	Medium dense to Dense brown slightly silty SAND AND GRAVEL with frequent limestone cobbles and boulders																															
6.10	Very strong light grey LIMESTONE																															
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 Sealed (m)	Type	From (m)	To (m)					
1430				C	140.00	0.00	6.60					Sim. Casing					1415	23.00	6.60	Very Slow	0.00	0.00	0.00	0.00	N/S							
				RO	154.00	0.00	6.60				DTH Button Bit		115	Air	No																	
Finish time (hhmm)	Hole (m)	Water (m)	Casing (m)	RO	120.00	6.60	40.00				DTH Button Bit			Air	No																	
1720	40.00	Dry	6.60																													
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															
1430		CAT Scanned: Yes										SPT Rod Type		2 3/8 Regular	SPT Energy Ratio	0.00	Lomaunaghbaun															
1430		Permit Completed: Yes										Drilling Crew Details				CSCS No																
												Support Operative		John Whyte				Weather		Variable		Project No		21/22								
												Lead Driller		Stephan Petersen				Date		19/05/2022		Day		Thursday								
												Site category		Green				Rig type		Knebel HY79		Borehole Number										
												Project Engineer		D Broderick				Inclination		Orientation		BH 1										
												Lead Driller's signature								Sheet		1 of 2		Completed		Y						






Petersen Drilling Services Ltd.

on behalf of

Newtown Farming

Rotary Drilling Log



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 TOPSOIL		RO		0.00	36.50		0000		100	grey											0.00	Dry
0.15	Medium dense brown sub-rounded SAND AND GRAVEL with frequent limestone cobbles and boulders																						
1.10	Strong to Very strong 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 Sealed (m)	Type	From (m)	To (m)
1125				C	140.00	0.00	2.30					Sim. Casing				1315	35.00	2.30	Medium	0.00	0.00	0.00	0.00	N/S			
Finish time (hhmm)	Hole (m)	Water (m)	Casing (m)	RO	154.00	0.00	2.30				DTH Button Bit		115	Air	No												
					120.00	2.30	36.50				DTH Button Bit			Air	No												
1415																											

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

SPT Rod Type

2 3/8 Regular

SPT Energy Ratio

0.00

Drilling Crew Details

CSCS No

Support Operative

John Whyte

Weather

Variable

Project No

21/22

Lead Driller

Stephan Petersen

Date

20/05/2022

Day

Friday

Site category

Green

Rig type

Knebel HY79

Borehole Number

Project Engineer

D Broderick

Inclination

Orientation

BH 2

Lead Driller's signature

Sheet

1 of 1

Completed

Y



Petersen Drilling Services Ltd.				on behalf of				Newtown Farming				Rotary Drilling Log																				
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	40.00			0000		100	grey																	0.00	Dry
0.20	Medium dense sub-angular silty SAND AND GRAVEL with frequent limestone cobbles and boulders																															
1.80	Strong to Very strong grey LIMESTONE rare fractures																															

[illegible]

[illegible]