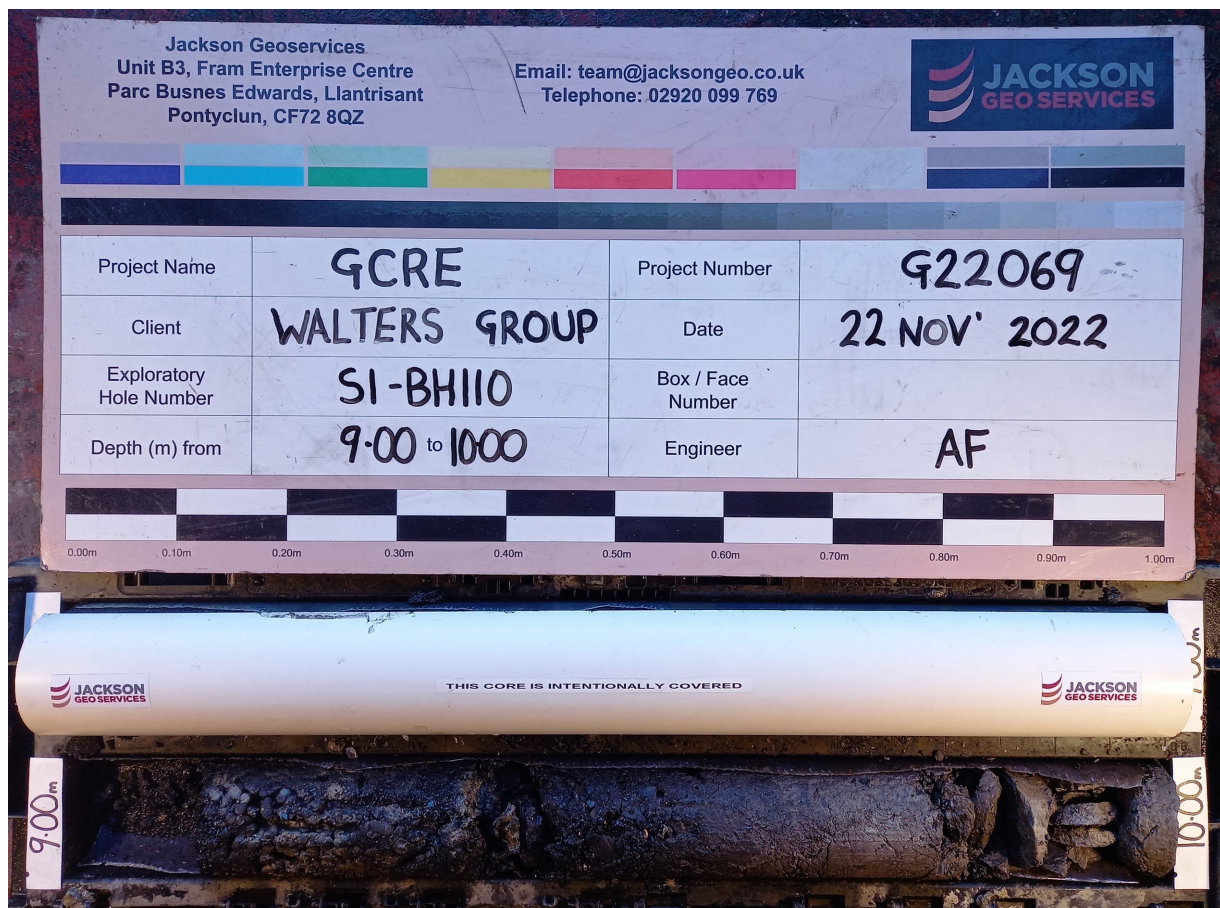


		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Hand excavated inspection pit from GL to 0.80m. Dynamic sampling from 0.80m to 9.00m. Rotary coring from 9.00 to 12.00m.	Exploratory Hole S1-BH110
Project	Global Centre of Rail Excellence	Easting	284595.14	Equipment	Insulated Digging Tools/Comacchio 305
Client	Walters UK Limited	Northing	210619.88	Method	IP/RC/DS
Project No	G22069	Level	234.05 mAOD	Termination Reason	Scheduled depth

Sheet 4 of 5



S1-BH110 8.00 m to 9.00 m



S1-BH110 9.00 m to 10.00 m

		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Hand excavated inspection pit from GL to 0.80m. Dynamic sampling from 0.80m to 9.00m. Rotary coring from 9.00 to 12.00m.	Exploratory Hole S1-BH110
Project	Global Centre of Rail Excellence	Easting	284595.14	Equipment	Insulated Digging Tools/Comacchio 305
Client	Walters UK Limited	Northing	210619.88	Method	IP/RC/DS
Project No	G22069	Level	234.05 mAOD	Termination Reason	Scheduled depth

Sheet 5 of 5



S1-BH110 10.00 m to 11.00 m



S1-BH110 11.00 m to 12.00 m



Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	S1-BH112	
14/12/2022 08:15	0.00				
14/12/2022 16:15	6.20	4.50	Dry	Sheet 1 of 7	
15/12/2022 08:15	6.20	4.50	Dry	Scale	1:25
15/12/2022 16:15	15.90	4.50	7	Drilled	TP
16/12/2022 08:15	15.90	4.50	Wet	Logged	AF/JP
16/12/2022 15:00	21.90	4.50	19.96	Checked	
19/12/2022 08:15	21.90	4.50	10.97		
19/12/2022 15:00	30.40	4.50	Wet		

Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
6.20	7.00	Air/Mist	Brown	100%	30.40	146mm	4.50	200mm									
7.00	28.00	Air/Mist	Grey	100%													
28.00	30.40	Air/Mist	Brown	100%													
Drill Bit Type			PCD		Drill Bit Condition		Good		Core Barrel Type		Wireline Triple Tube			Core Barrel Length		1.50	

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Continued on next Sheet

Drill Bit Type	PCD	Drill Bit Condition	Good	Core Barrel Type	Wireline Triple Tube	Core Barrel Length	1.50
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Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth		
				S1-BH112	
				Sheet 4 of 7	
				Scale	1:25
				Drilled	TP
				Logged	AF/JJP
				Checked	

Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
6.20	7.00	Air/Mist	Brown	100%	30.40	146mm	4.50	200mm									
7.00	28.00	Air/Mist	Grey	100%													
28.00	30.40	Air/Mist	Brown	100%													
Drill Bit Type			PCD		Drill Bit Condition		Good		Core Barrel Type		Wireline Triple Tube			Core Barrel Length		1.50	

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DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG

Project	Global Centre of Rail Excellence			Equipment	Commachio 305/Insulated Digging Tools
Client	Walters UK Limited			Method	RC/IP/DS
Project No	G22069	Level	237.94 mAOD	Inclination	90 degrees
Easting	284882.07	Northing	210599.97	SPT Hammer Serial Number	AR2394
Termination Reason	Scheduled depth			SPT Hammer Energy Ratio	67 %

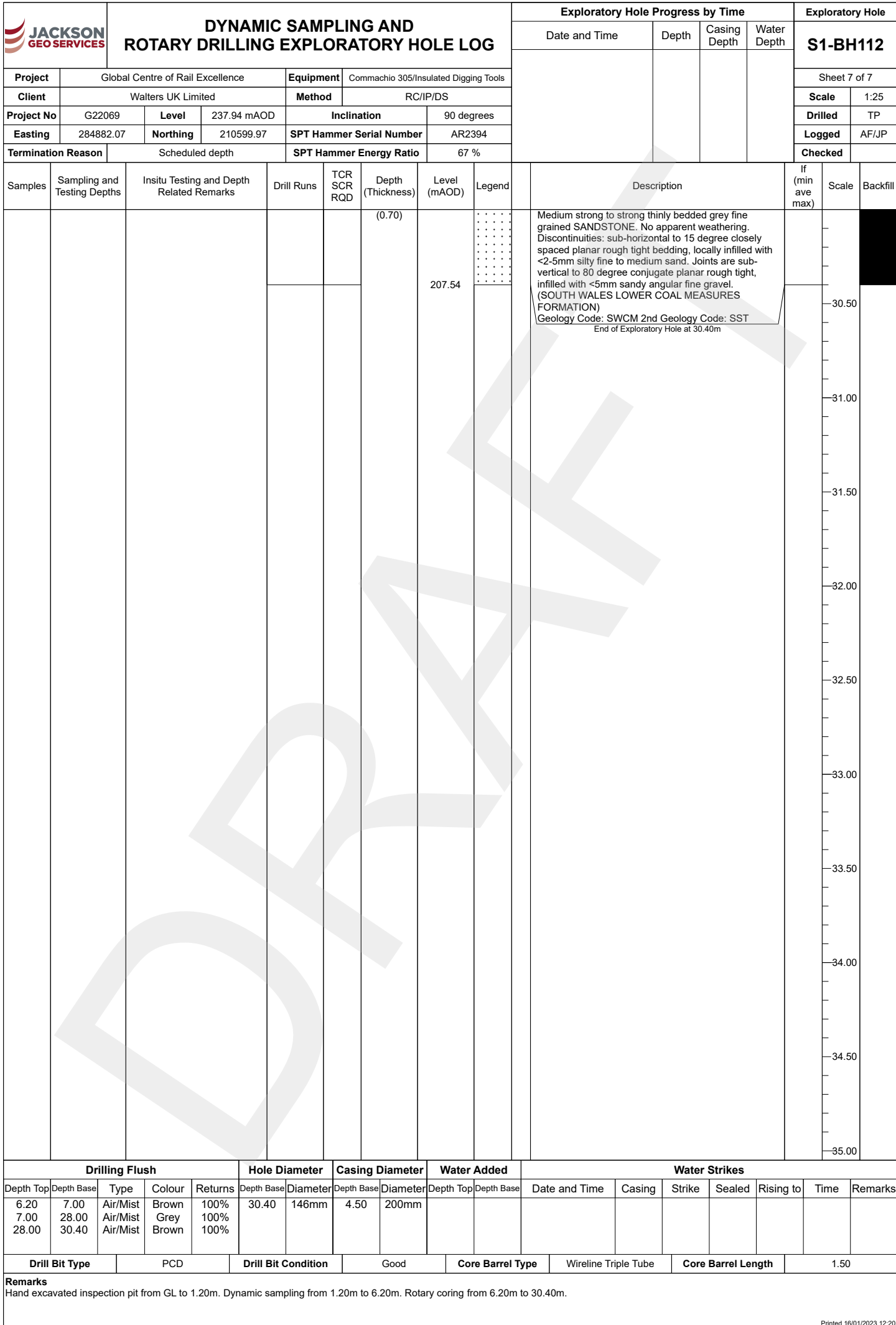
Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	S1-BH112 Sheet 5 of 7 Scale 1:25 Drilled TP Logged AF/JP Checked	

Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks	Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend	Description	If (min ave max)	Scale	Backfill
					20.20	217.74		Very weak to weak very thinly to thinly bedded grey MUDSTONE. Weathering: Occasional zones with increased fracture spacing and loss of strength (<160mm). Discontinuities: sub-horizontal to 15 degree very closely and closely spaced undulating smooth tight and incipient bedding, locally infilled with <1-2mm silty clay. (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST	Set 1 NI 60	20.50	
					(0.90)			Partial recovery. Possible loss of weaker more weathered material. Recovered core comprises strong grey and dark grey iron rich fine grained SANDSTONE possibly with sub-ordinate beds of very weak black highly carbonaceous MUDSTONE. Typically NI, recovered as subangular cobbles of sandstone locally intact <60mm, with a little angular fine to medium gravel of mudstone. (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: SST		21.00	
			RC 20.40 - 21.90	47% 7% 0%	21.10	216.84		NO RECOVERY. Core loss due to scrubbing of very weak mudstone by overlying strong sandstone. (Drilling disturbance) (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM		21.50	
					(0.80)						
					21.90	216.04		Very weak dark grey to black highly carbonaceous MUDSTONE. NI, recovered as very angular tabular fine to coarse gravel. Possible sub-horizontal and randomly orientated extremely closely spaced fractures. (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST	Set 1 NI NI NI	22.00	
					(0.28)						
					22.18	215.76		Weak to moderately weak medium locally thinly bedded grey SILTSTONE. Occasional ironstone nodules and thin light grey fine sandstone laminae below 24.40m. Weathering: occasional zones of increased fracture spacing (<40mm). Discontinuities: sub-horizontal to 20 degree medium locally closely spaced planar and undulating rough tight and incipient bedding, locally infilled with <1-2mm silty fine sand. (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: SZT	Set 1 NI 200 480	22.50	
			RC 21.90 - 23.40	100% 79% 75%				22.40m - 22.44m Extremely weak.		23.00	
					(2.72)					23.50	
								23.80m - 23.80m No recovery.		24.00	
			RC 23.40 - 24.90	78% 70% 65%						24.50	
					24.90	213.04		Moderately weak medium locally thinly bedded light grey to grey slightly sandy SILTSTONE. Occasional thin and thick light grey fine sandstone laminae and occasional sub-ordinate very thin beds of medium strong fine grained SANDSTONE. Occasional zones with increased fracture spacing and loss of strength. Discontinuities: sub-horizontal to 20 degree medium locally closely spaced planar smooth tight and incipient bedding, locally infilled with <1mm silt. (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: SZT	Set 1	25.00	

Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
6.20	7.00	Air/Mist	Brown	100%	30.40	146mm	4.50	200mm									
7.00	28.00	Air/Mist	Grey	100%													
28.00	30.40	Air/Mist	Brown	100%													
Drill Bit Type			PCD		Drill Bit Condition		Good		Core Barrel Type		Wireline Triple Tube		Core Barrel Length			1.50	

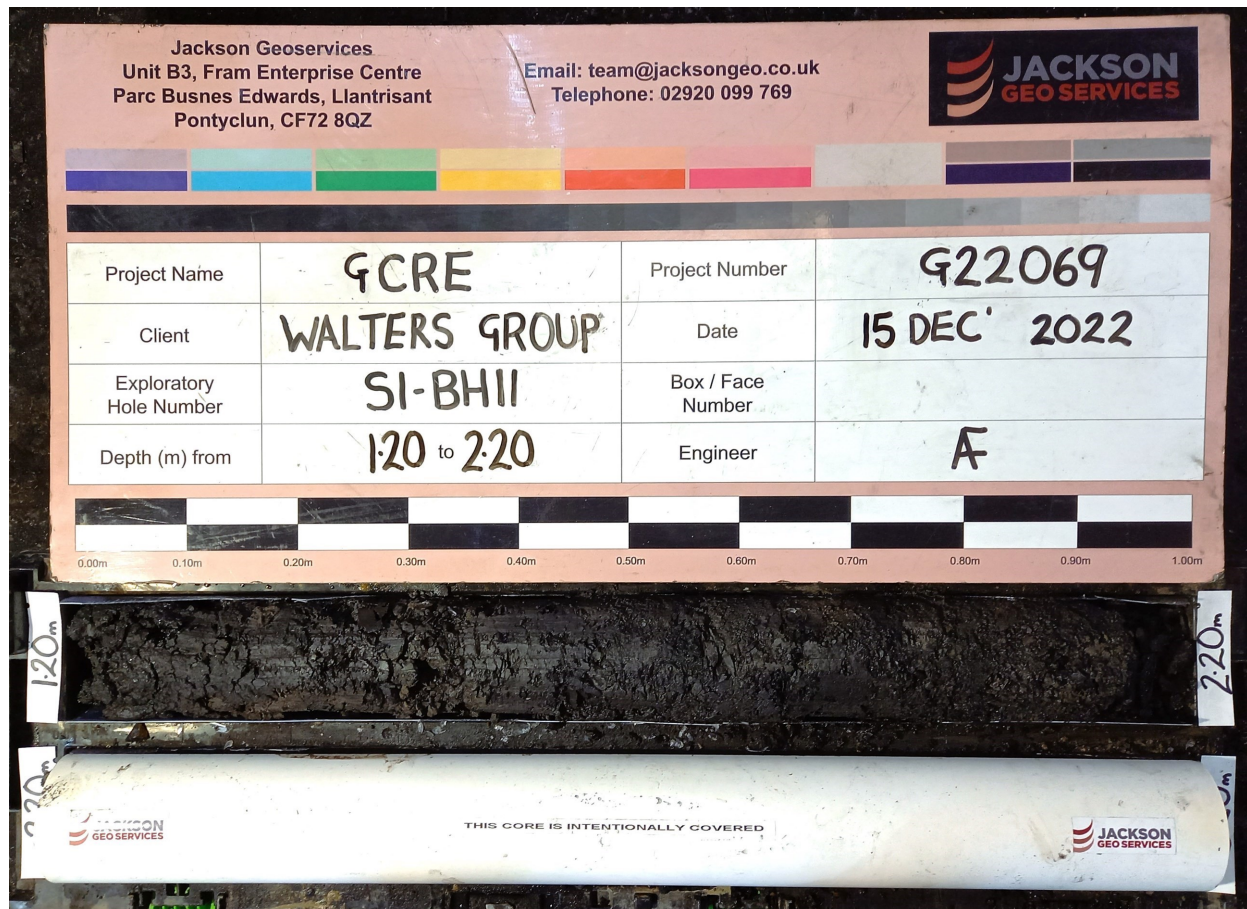
Remarks	Hand excavated inspection pit from GL to 1.20m. Dynamic sampling from 1.20m to 6.20m. Rotary coring from 6.20m to 30.40m.
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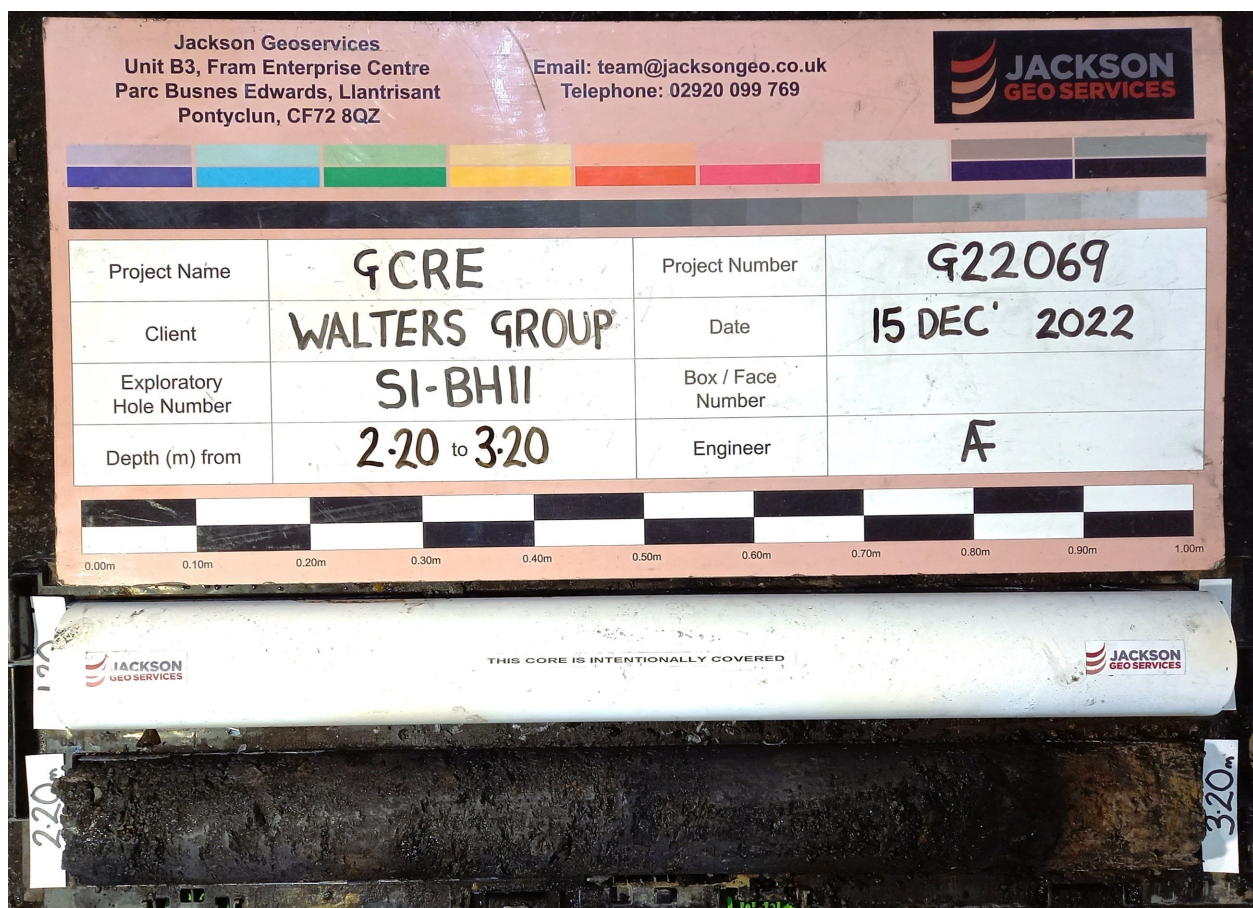


		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Hand excavated inspection pit from GL to 1.20m. Dynamic sampling from 1.20m to 6.20m. Rotary coring from 6.20m to 30.40m.	Exploratory Hole S1-BH112
Project	Global Centre of Rail Excellence	Easting	284882.07	Equipment	Commachio 305/Insulated Digging Tools
Client	Walters UK Limited	Northing	210599.97	Method	RC/IP/DS
Project No	G22069	Level	237.94 mAOD	Termination Reason	Scheduled depth

Sheet 1 of 11



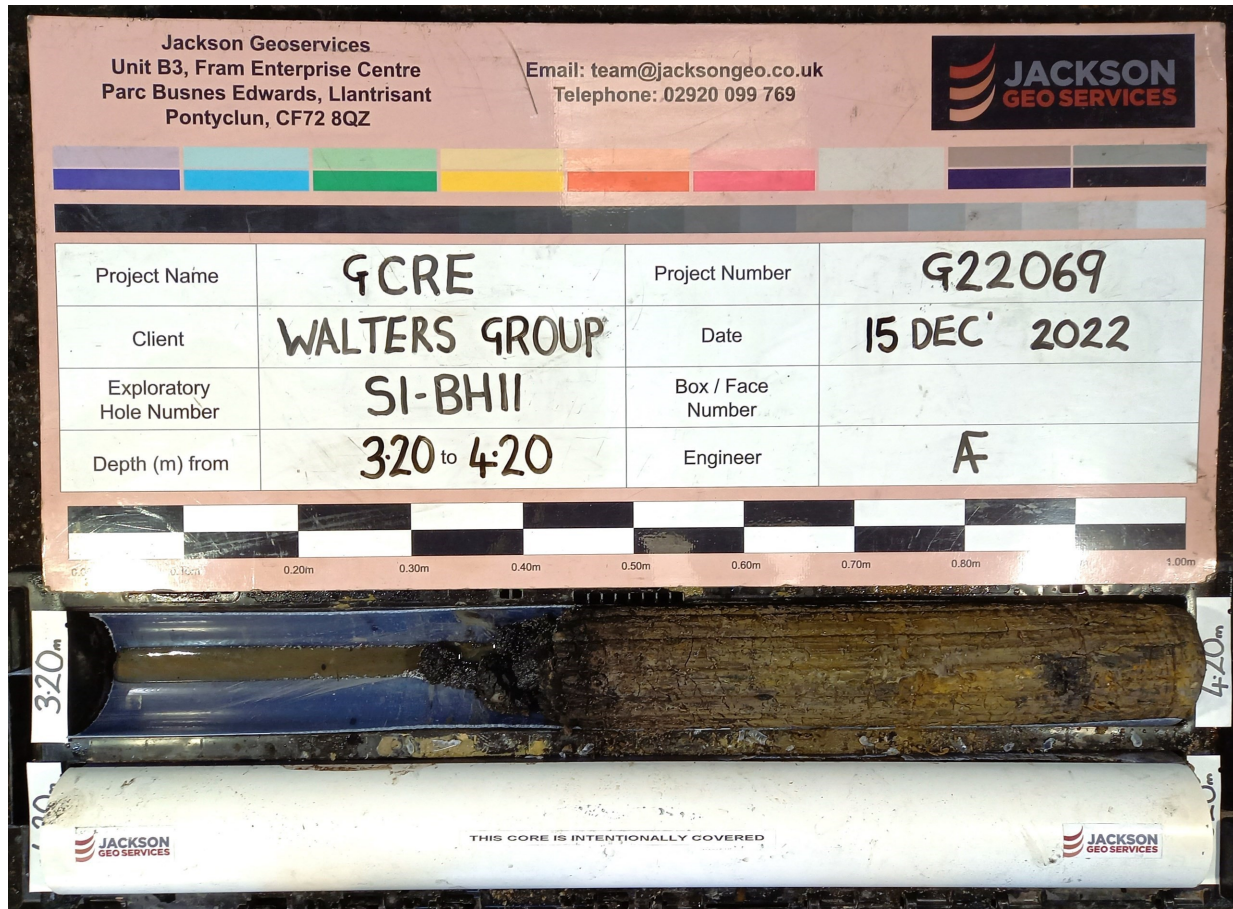
S1-BH112 1.20 m to 2.20 m



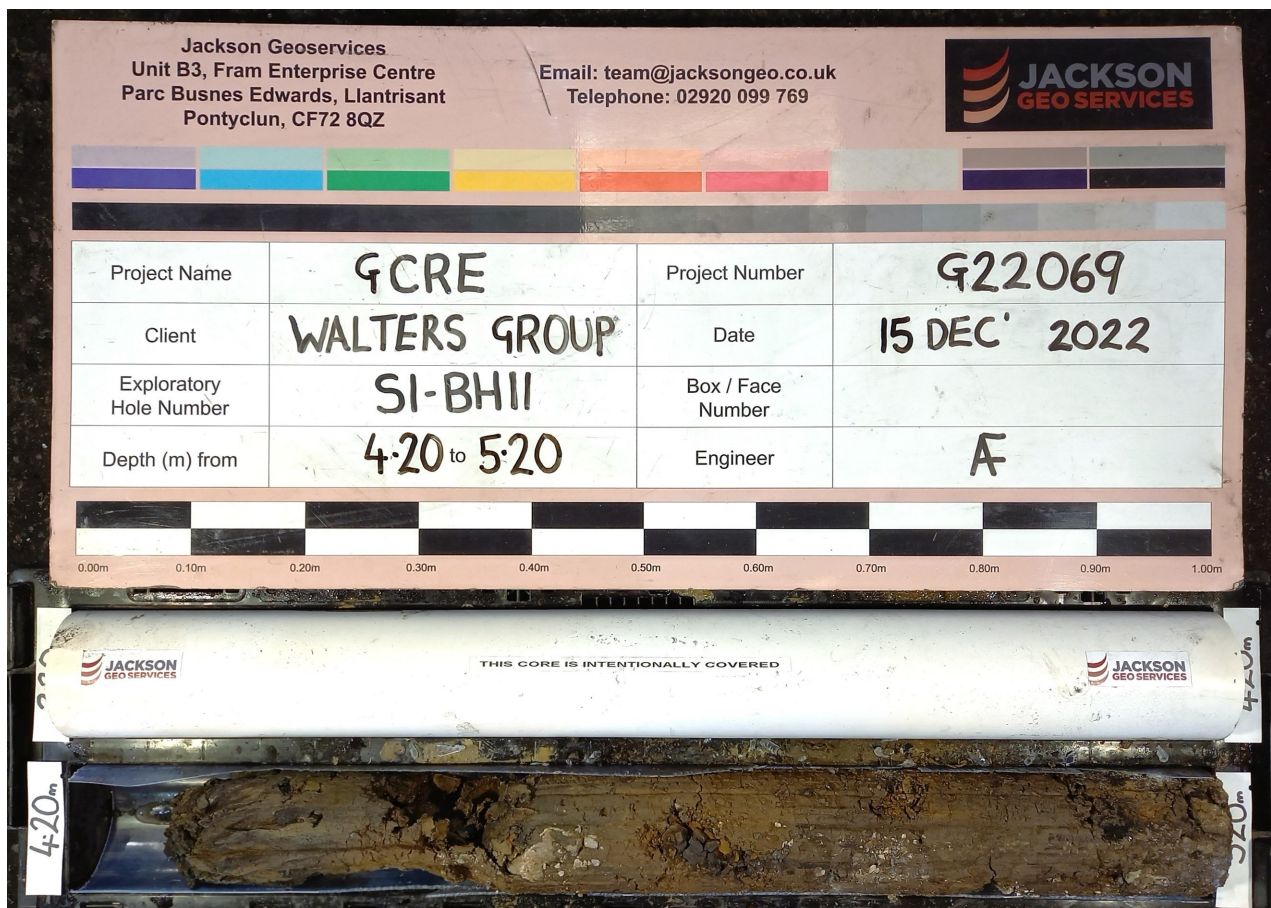
S1-BH112 2.20 m to 3.20 m

		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Hand excavated inspection pit from GL to 1.20m. Dynamic sampling from 1.20m to 6.20m. Rotary coring from 6.20m to 30.40m.	Exploratory Hole S1-BH112
Project	Global Centre of Rail Excellence	Easting	284882.07	Equipment	Commachio 305/Insulated Digging Tools
Client	Walters UK Limited	Northing	210599.97	Method	RC/IP/DS
Project No	G22069	Level	237.94 mAOD	Termination Reason	Scheduled depth

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S1-BH112 3.20 m to 4.20 m



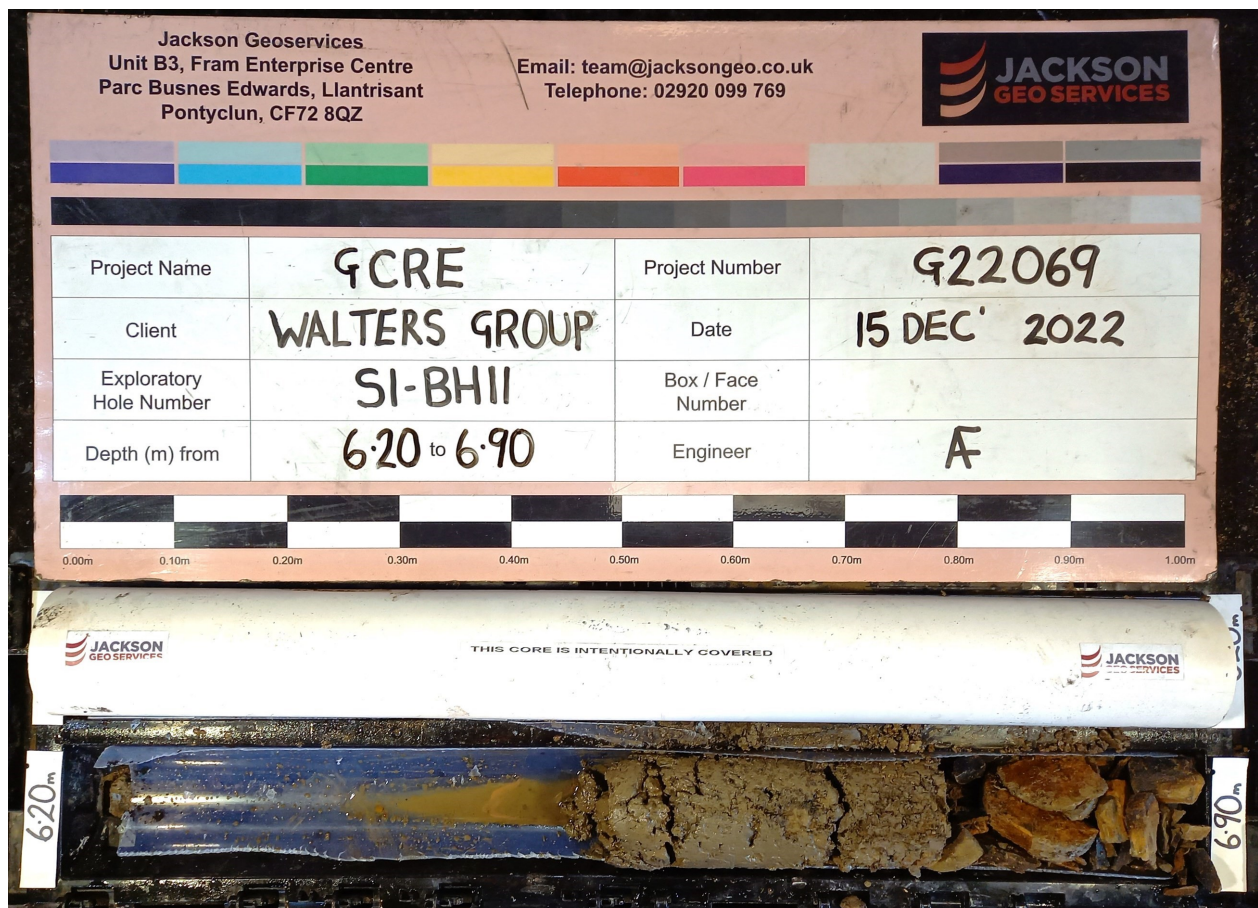
S1-BH112 4.20 m to 5.20 m

		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Hand excavated inspection pit from GL to 1.20m. Dynamic sampling from 1.20m to 6.20m. Rotary coring from 6.20m to 30.40m.	Exploratory Hole S1-BH112
Project	Global Centre of Rail Excellence	Easting	284882.07	Equipment	Commachio 305/Insulated Digging Tools
Client	Walters UK Limited	Northing	210599.97	Method	RC/IP/DS
Project No	G22069	Level	237.94 mAOD	Termination Reason	Scheduled depth

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S1-BH112 5.20 m to 6.20 m



S1-BH112 6.20 m to 6.90 m