

		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Hand excavated inspection pit from GL to 0.40m. Dynamic sampling from 0.40m to 3.00m. Rotary coring from 3.00m to 30.00m.		Exploratory Hole S1-BH108
Project	Global Centre of Rail Excellence	Easting	284415.11	Equipment	Beretta T44/Insulated Hand Tools	Sheet 9 of 11
Client	Walters UK Limited	Northing	210631.95	Method	WLS/IP/RC	
Project No	G22069	Level	231.95 mAOD	Termination Reason	Scheduled depth	

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Project Name	GCRE	Project Number	G22069
Client	WALTERS GROUP	Date	25 NOV' 2022
Exploratory Hole Number	S1-BH108	Box / Face Number	
Depth (m) from	22:50 to 24:00	Engineer	A





S1-BH108 22.50 m to 24.00 m

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Project Name	GCRE	Project Number	G22069
Client	WALTERS GROUP	Date	25 NOV' 2022
Exploratory Hole Number	S1-BH108	Box / Face Number	
Depth (m) from	24:00 to 25:50	Engineer	A





S1-BH108 24.00 m to 25.50 m

		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Hand excavated inspection pit from GL to 0.40m. Dynamic sampling from 0.40m to 3.00m. Rotary coring from 3.00m to 30.00m.		Exploratory Hole S1-BH108
Project	Global Centre of Rail Excellence	Easting	284415.11	Equipment	Beretta T44/Insulated Hand Tools	Sheet 10 of 11
Client	Walters UK Limited	Northing	210631.95	Method	WLS/IP/RC	
Project No	G22069	Level	231.95 mAOD	Termination Reason	Scheduled depth	

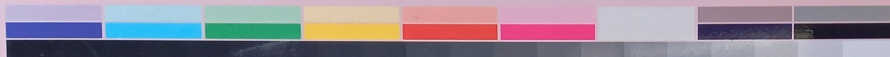
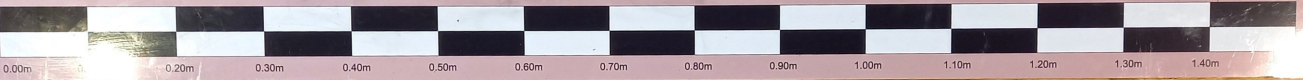
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Project Name	GCRE
Client	WALTERS GROUP
Exploratory Hole Number	S1-BH108
Depth (m) from	25.50 to 2700

Project Number	G22069
Date	25 NOV' 2022
Box / Face Number	
Engineer	A



24.00m
25.50m
27.00m

S1-BH108 25.50 m to 27.00 m

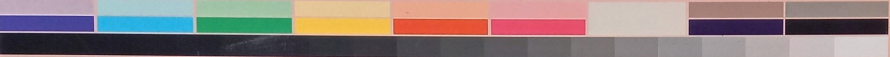
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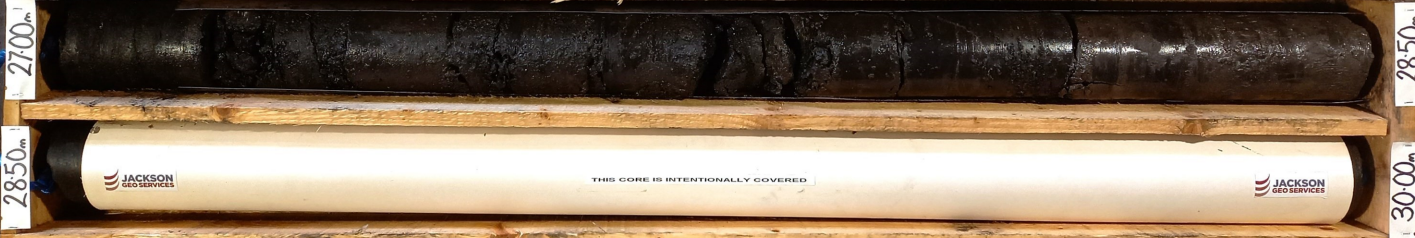
Email: team@jacksongeo.co.uk
Telephone: 02920 099 769



Project Name	GCRE
Client	WALTERS GROUP
Exploratory Hole Number	S1-BH108
Depth (m) from	2700 to 28.50

Project Number	G22069
Date	25 NOV' 2022
Box / Face Number	
Engineer	A



27.00m
28.50m
30.00m

S1-BH108 27.00 m to 28.50 m

		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Hand excavated inspection pit from GL to 0.40m. Dynamic sampling from 0.40m to 3.00m. Rotary coring from 3.00m to 30.00m.		Exploratory Hole S1-BH108
Project	Global Centre of Rail Excellence	Easting	284415.11	Equipment	Beretta T44/Insulated Hand Tools	Sheet 11 of 11
Client	Walters UK Limited	Northing	210631.95	Method	WLS/IP/RC	
Project No	G22069	Level	231.95 mAOD	Termination Reason	Scheduled depth	

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Project Name	GCRE	Project Number	G22069
Client	WALTERS GROUP	Date	25 NOV' 2022
Exploratory Hole Number	S1-BH108	Box / Face Number	
Depth (m) from	28.50 to 30.00	Engineer	A





S1-BH108 28.50 m to 30.00 m



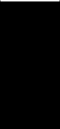
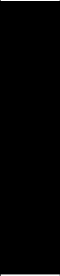
Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	S1-BH109	
06/12/2022 14:00	0.00	0.00	Dry		
06/12/2022 16:15	0.80	0.00	Dry	Sheet 1 of 4	
07/12/2022 08:15	0.80	0.00	Dry		
07/12/2022 16:15	7.60	7.50	4.88	Scale	1:25
08/12/2022 09:00	7.60	7.50	5.66	Drilled	TP
08/12/2022 16:00	15.90	15.90	9.45	Logged	AF
09/12/2022 08:30	15.90	15.90	8.97	Checked	AP
09/12/2022 12:00	15.90	15.90	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
11.40	15.90	Air/Mist	Dark Grey	100%	15.90	146mm	7.50	200mm			07/12/2022 11:20	1.20	4.78		4.62	20mins	
Drill Bit Type		PCD			Drill Bit Condition		Good		Core Barrel Type		Wireline Triple Tube		Core Barrel Length			1.50	

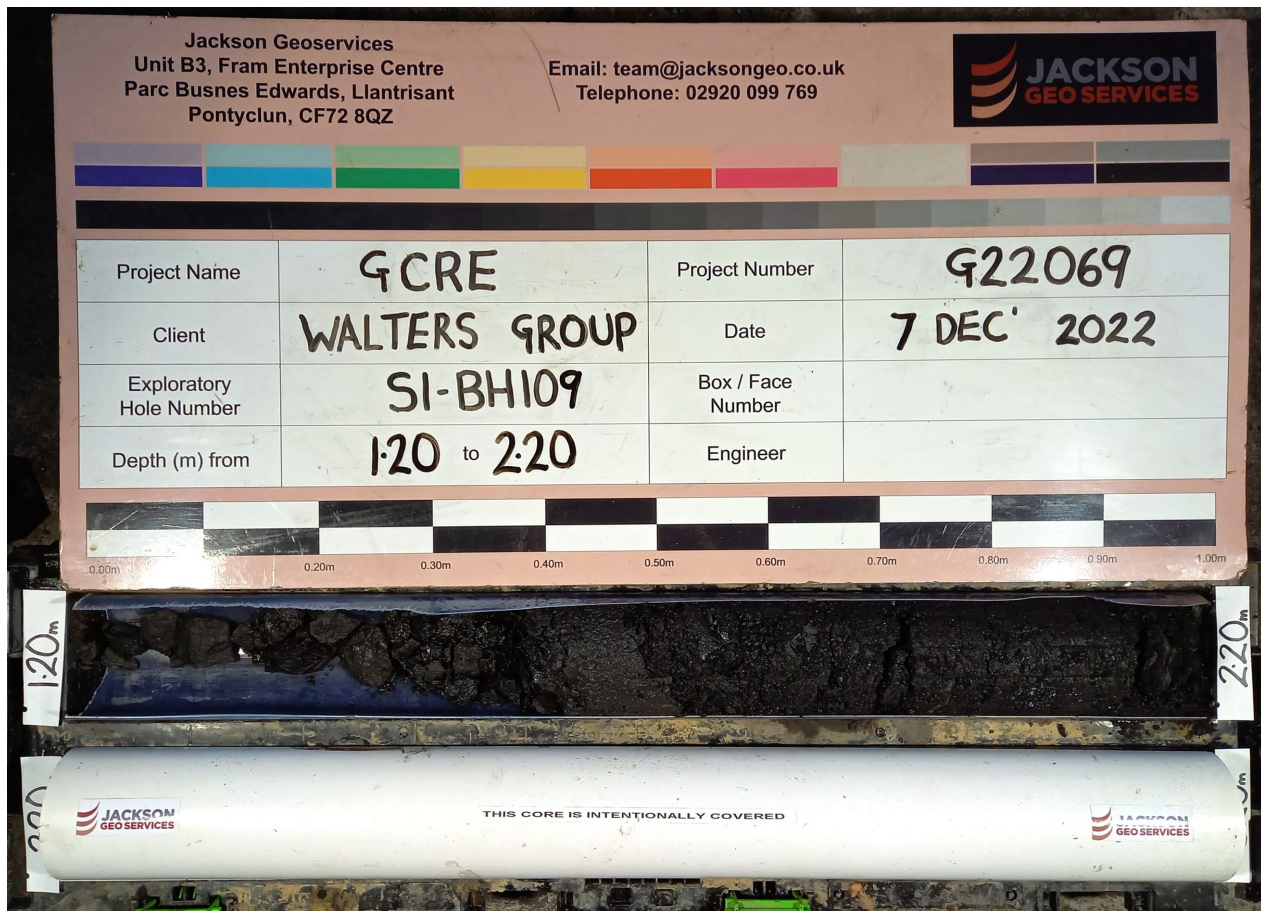
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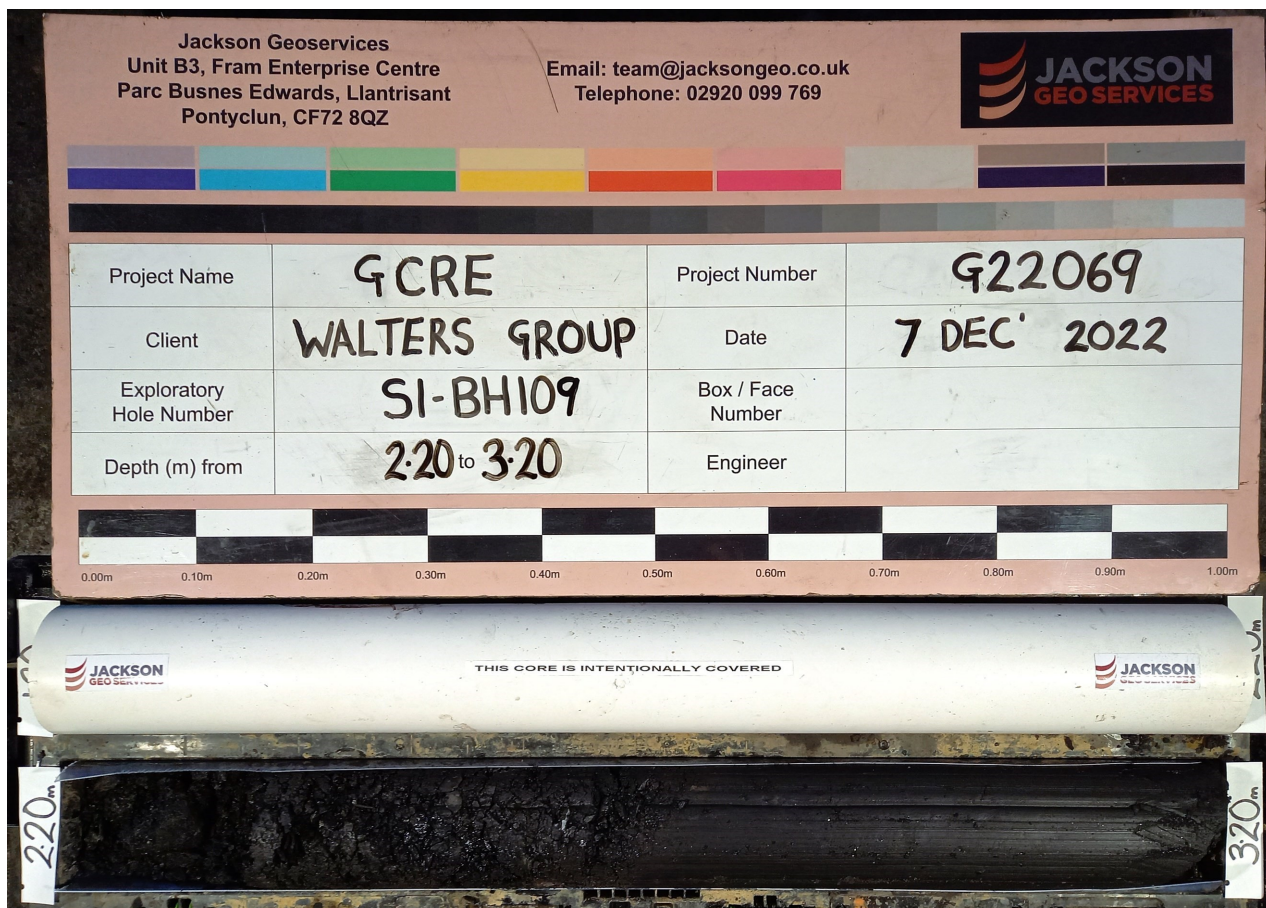


		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	S1-BH109				
Project		Global Centre of Rail Excellence			Equipment		Comacchio 305			Sheet 4 of 4							
Client		Walters UK Limited			Method		IP/DS/RC			Scale		1:25					
Project No		G22069		Level		236.37 mAOD		Inclination		90 degrees		Drilled		TP			
Easting		284752.18		Northing		210629.62		SPT Hammer Serial Number		JD01		Logged		AF			
Termination Reason		Scheduled depth			SPT Hammer Energy Ratio		70 %			Checked		AP					
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			
					RC 14.40 - 15.90	100% 10% 0%	15.20	221.17		Weak thickly laminated to very thinly bedded dark grey carbonaceous MUDSTONE. Weathering: increased fracture spacing throughout rock mass. Discontinuities: typically NI recovered as very angular to angular fine to coarse tabular gravel. Possible sub-horizontal to 10 degree extremely closely and very closely spaced planar rough bedding fractures. (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST Very weak black COAL. No apparent weathering. Discontinuities: 45 to 60 degree and randomly orientated extremely closely spaced planar and stepped tight and incipient fractures. (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: COAL End of Exploratory Hole at 15.90m	Set 1 NI <10 <20	15.50					
							(0.70)	220.47			16.00						
												16.50					
												17.00					
												17.50					
												18.00					
												18.50					
												19.00					
												19.50					
												20.00					
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
11.40	15.90	Air/Mist	Dark Grey	100%	15.90	146mm	7.50	200mm			07/12/2022 11:20	1.20	4.78		4.62	20mins	
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 10.40m. Rotary coring from 10.40m to 15.90m.																	
Printed 16/03/2023 13:06																	

		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Hand excavated inspection pit from GL to 1.20m. Dynamic sampling from 1.20m to 10.40m. Rotary coring from 10.40m to 15.90m.		Exploratory Hole S1-BH109
Project	Global Centre of Rail Excellence	Easting	284752.18	Equipment	Comacchio 305	Sheet 1 of 7
Client	Walters UK Limited	Northing	210629.62	Method	IP/DS/RC	
Project No	G22069	Level	236.37 mAOD	Termination Reason	Scheduled depth	

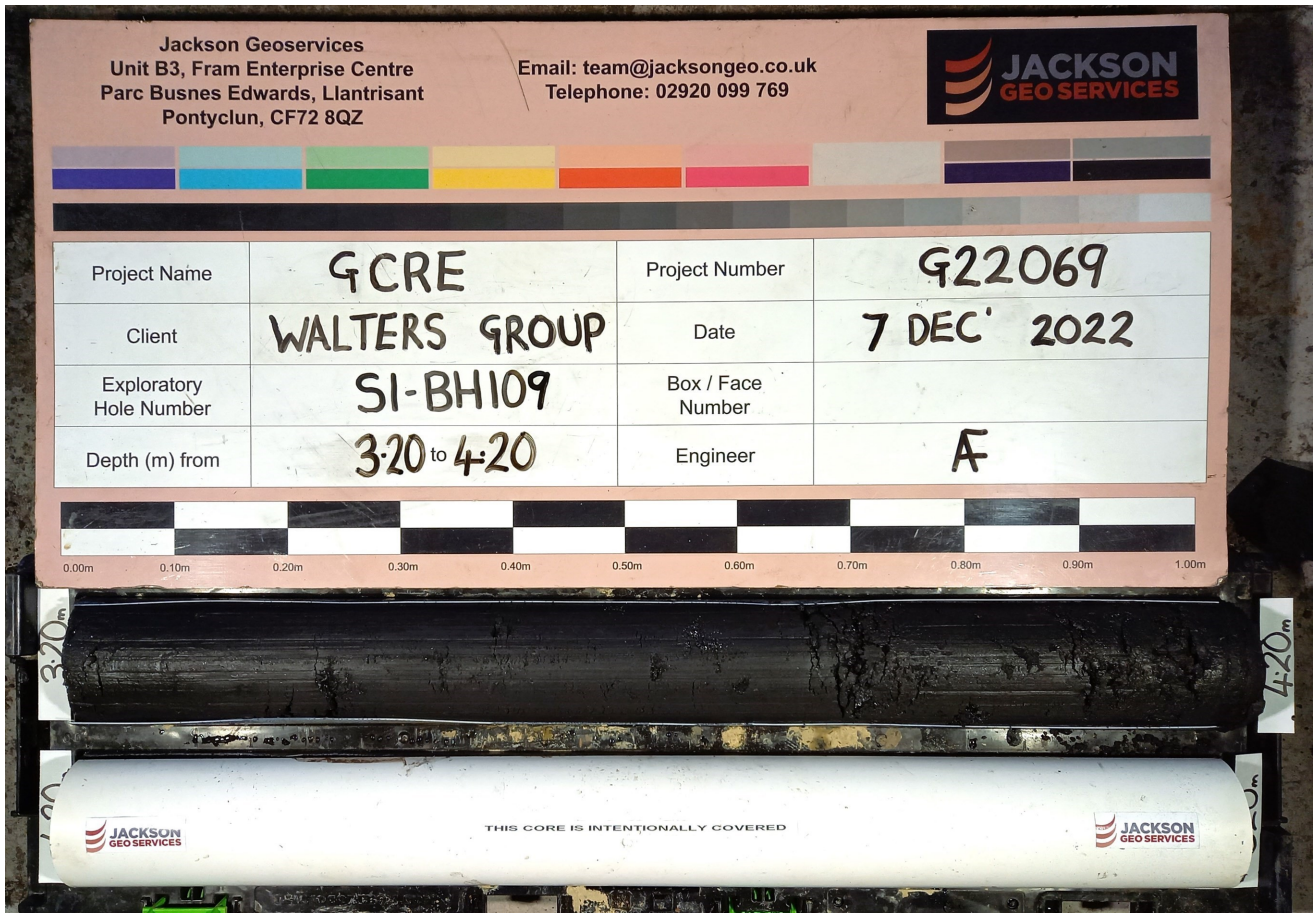


S1-BH109 1.20 m to 2.20 m

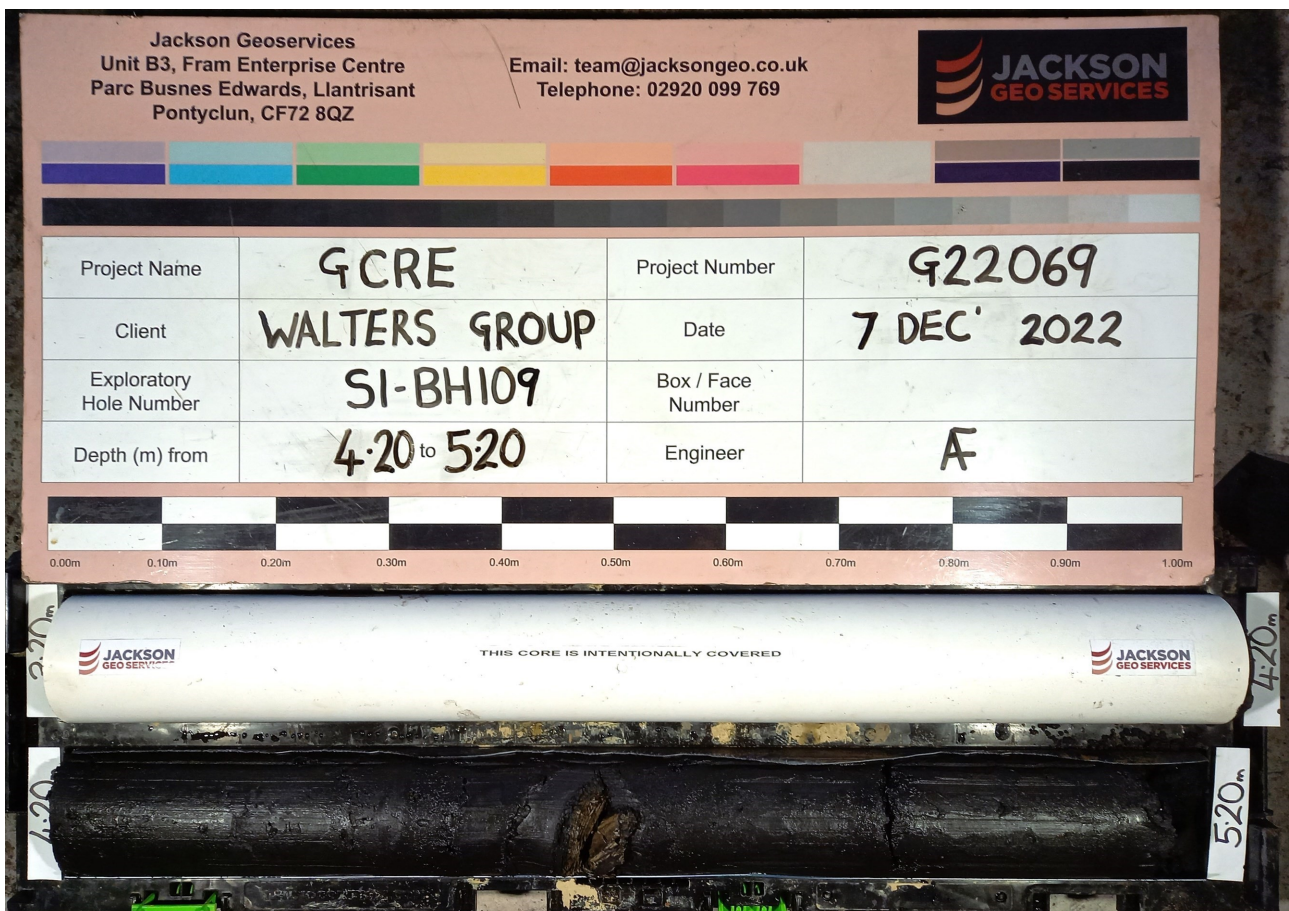


S1-BH109 2.20 m to 3.20 m

		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Hand excavated inspection pit from GL to 1.20m. Dynamic sampling from 1.20m to 10.40m. Rotary coring from 10.40m to 15.90m.		Exploratory Hole S1-BH109
Project	Global Centre of Rail Excellence	Easting	284752.18	Equipment	Comacchio 305	Sheet 2 of 7
Client	Walters UK Limited	Northing	210629.62	Method	IP/DS/RC	
Project No	G22069	Level	236.37 mAOD	Termination Reason	Scheduled depth	



S1-BH109 3.20 m to 4.20 m



S1-BH109 4.20 m to 5.20 m