

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284395.64	Equipment	Beretta T44 /Insulated hand tools
Client	Walters UK Ltd	Northing	210423.28	Method	DS/IP/RC
Project No	G23012	Level	236.90 mAOD	Termination Reason	Scheduled depth

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Project Name	QCRE STAGE 2	Project Number	923012
Client	WALTERS GROUP	Date	24 APRIL 2023
Exploratory Hole Number	S2-BH252	Box / Face Number	
Depth (m) from	7.00 to 7.50	Engineer	A

S2-BH252 7.00 m to 7.50 m

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Project Name	QCRE STAGE 2	Project Number	923012
Client	WALTERS GROUP	Date	24 APRIL 2023
Exploratory Hole Number	S2-BH252	Box / Face Number	
Depth (m) from	750 to 900	Engineer	A

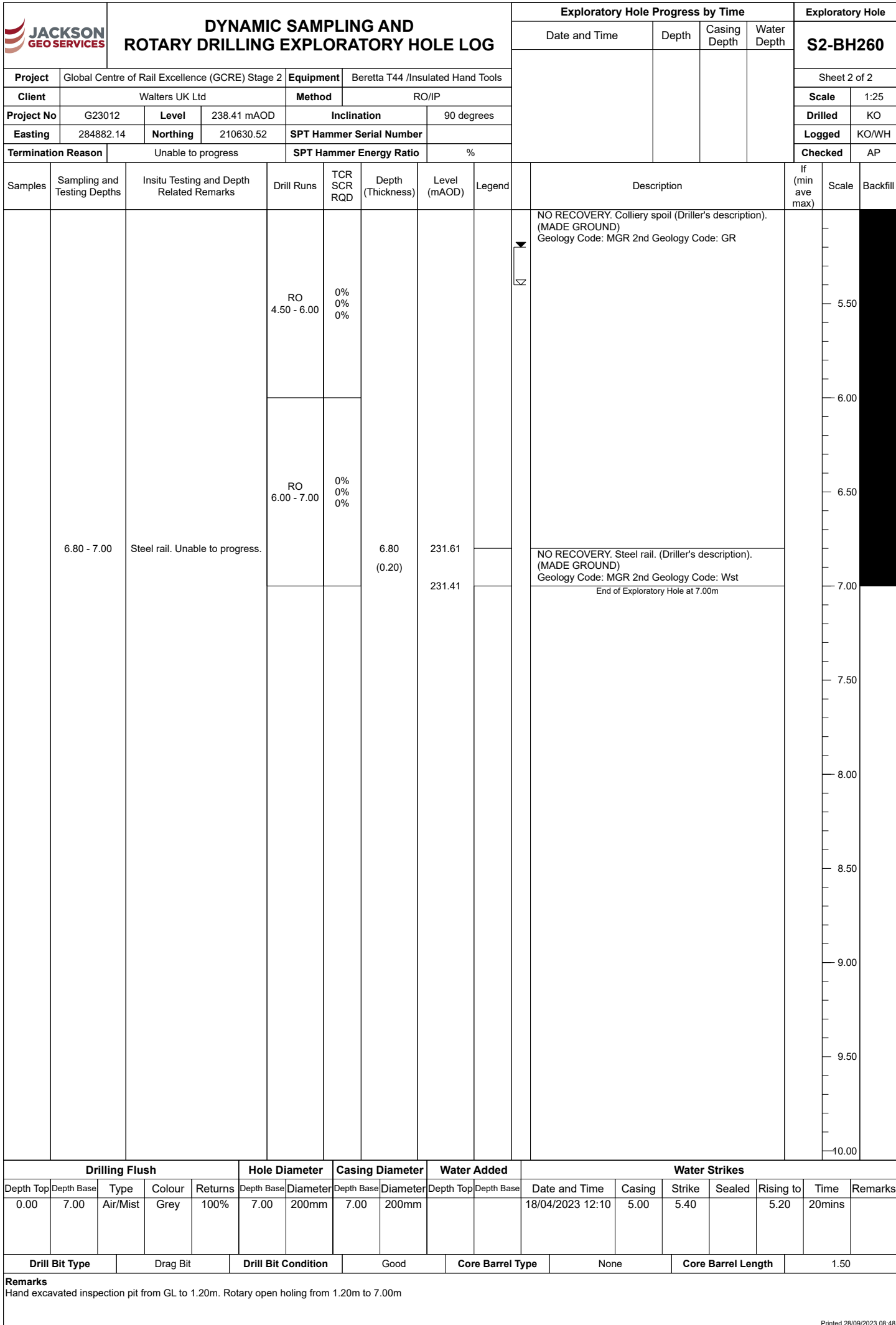
0.00m 0.10m 0.20m 0.30m 0.40m 0.50m 0.60m 0.70m 0.80m 0.90m 1.00m

7.5m

9m

S2-BH252 7.50 m to 9.00 m

JACKSON GEO SERVICES		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	S2-BH260				
								17/04/2023 11:40		0.00							
								17/04/2023 16:45		5.00	5.00						
18/04/2023 07:00		5.00	5.00		Sheet 1 of 2												
18/04/2023 12:56		7.00	6.80	5.20	Scale 1:25												
Project Global Centre of Rail Excellence (GCRE) Stage 2		Equipment Beretta T44 /Insulated Hand Tools				Drilled KO											
Client Walters UK Ltd		Method RO/IP				Logged KO/WH											
Project No G23012		Level 238.41 mAOD		Inclination 90 degrees		Checked AP											
Easting 284882.14		Northing 210630.52		SPT Hammer Serial Number													
Termination Reason Unable to progress		SPT Hammer Energy Ratio		%													
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					
1 ES 4 B	0.20 - 0.30 0.20 - 0.40					0.00 (0.40)			Grey sandy slightly clayey angular to subrounded fine to coarse GRAVEL of siltstone and mudstone with medium cobble content. Cobbles are angular to sub angular siltstone (120×100×60mm). Sand is fine to coarse. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR	0.50							
5 D 2 ES	0.40 - 0.50 0.50 - 0.60					0.40 (0.40)	238.01						Soft to firm grey sandy very gravelly CLAY. Gravel is angular to sub rounded fine to coarse siltstone. sand is fine to coarse. (MADE GROUND) Geology Code: MGR 2nd Geology Code: CL				
6 B 3 ES	0.80 - 1.00 0.90 - 1.00					0.80 (0.40)	237.61						Grey sandy slightly clayey angular to subrounded fine to coarse GRAVEL of siltstone and mudstone. Sand is fine to coarse. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR				
						1.20 (5.60)	237.21		NO RECOVERY. Colliery spoil (Driller's description). (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR	1.50							
				RO 1.20 - 3.00	0% 0% 0%					2.00							
										2.50							
				RO 3.00 - 4.50	0% 0% 0%					3.00							
										3.50							
										4.00							
										4.50							
										5.00							
Continued on next Sheet																	
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
0.00	7.00	Air/Mist	Grey	100%	7.00	200mm	7.00	200mm			18/04/2023 12:10	5.00	5.40		5.20	20mins	
Drill Bit Type		Drag Bit		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.50			
Remarks Hand excavated inspection pit from GL to 1.20m. Rotary open holing from 1.20m to 7.00m																	
Printed 28/09/2023 08:48																	



		EXPLORATORY HOLE PHOTOGRAPHS					Exploratory Hole
							S2-BH260
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284882.14	Equipment	Beretta T44 /Insulated Hand Tools	Sheet 1 of 1	
Client	Walters UK Ltd	Northing	210630.52	Method	RO/IP		
Project No	G23012	Level	238.41 mAOD	Termination Reason	Unable to progress		

JACKSON GEO SERVICES		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole							
								Date and Time		Depth	Casing Depth	Water Depth	S2-BH260a						
Project		Global Centre of Rail Excellence (GCRE) Stage 2			Equipment		Insulated hand tools/Beretta T44			18/04/2023 12:30		0.00	0.00	8.90	Sheet 1 of 5				
Client		Walters UK Ltd			Method		IP/RO/RC			18/04/2023 16:57		12.00	12.00	7.80	Scale		1:25		
Project No		G23012		Level		238.32 mAOD		Inclination		90 degrees		19/04/2023 07:05		12.00	12.00	12.40	Drilled		KO
Easting		284880.87		Northing		210631.44		SPT Hammer Serial Number				20/04/2023 16:38		25.00	12.00	10.30	Logged		AF
Termination Reason		Scheduled depth			SPT Hammer Energy Ratio			%									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			
							0.00 (0.40) 0.40 (0.40) 0.80 (0.40) 1.20	237.92 237.52 237.12		Grey sandy slightly clayey angular to subangular fine to coarse GRAVEL of siltstone and mudstone with medium cobble content. Cobbles are angular to subangular of siltstone (120x100x60mm). Sand is fine to coarse. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR Soft to firm grey sandy very gravelly CLAY. Gravel is angular to subangular fine to coarse of siltstone. Sand is fine to coarse. (MADE GROUND) Geology Code: MGR 2nd Geology Code: CL Grey sandy slightly clayey angular to subrounded fine to coarse GRAVEL of siltstone and mudstone. Sand is fine to coarse. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR NO RECOVERY. Colliery Spoil. (Driller's Description) (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR									
					RO 1.20 - 3.00	0% 0% 0%													
					RO 3.00 - 4.50	0% 0% 0%													
							(6.40)												
										Continued on next Sheet									
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		
0.00	9.50	Air/Mist	Grey	100%	8.50	200mm	8.50	200mm			18/04/2023 15:00	5.00	5.40		5.20	20mins	med		
Drill Bit Type		PCD		Drill Bit Condition		Fair		Core Barrel Type		Conventional Double Tube		Core Barrel Length		1.50					
Remarks Hand excavated inspection pit from GL to 1.20m. Rotary open hole from 1.20m to 9.50m. Rotary coring from 9.50m to 25.00m.																			
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		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-BH260a
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284880.87	Equipment	Insulated hand tools/Beretta T44	Sheet 1 of 5
Client	Walters UK Ltd	Northing	210631.44	Method	IP/RO/RC	
Project No	G23012	Level	238.32 mAOD	Termination Reason	Scheduled depth	

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	20 APRIL 2023
Exploratory Hole Number	S2-BH260A	Box / Face Number	
Depth (m) from	1200 to 1350	Engineer	A






S2-BH260a 12.00 m to 13.50 m

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	20 APRIL 2023
Exploratory Hole Number	S2-BH260A	Box / Face Number	
Depth (m) from	1350 to 1500	Engineer	A






S2-BH260a 13.50 m to 15.00 m

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-BH260a
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284880.87	Equipment	Insulated hand tools/Beretta T44	Sheet 2 of 5
Client	Walters UK Ltd	Northing	210631.44	Method	IP/RO/RC	
Project No	G23012	Level	238.32 mAOD	Termination Reason	Scheduled depth	

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	20 APRIL 2023
Exploratory Hole Number	S2-BH260A	Box / Face Number	
Depth (m) from	15.00 to 16.50	Engineer	A

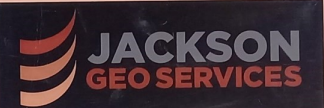





S2-BH260a 15.00 m to 16.50 m

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	20 APRIL 2023
Exploratory Hole Number	S2-BH260A	Box / Face Number	
Depth (m) from	16.50 to 18.00	Engineer	A



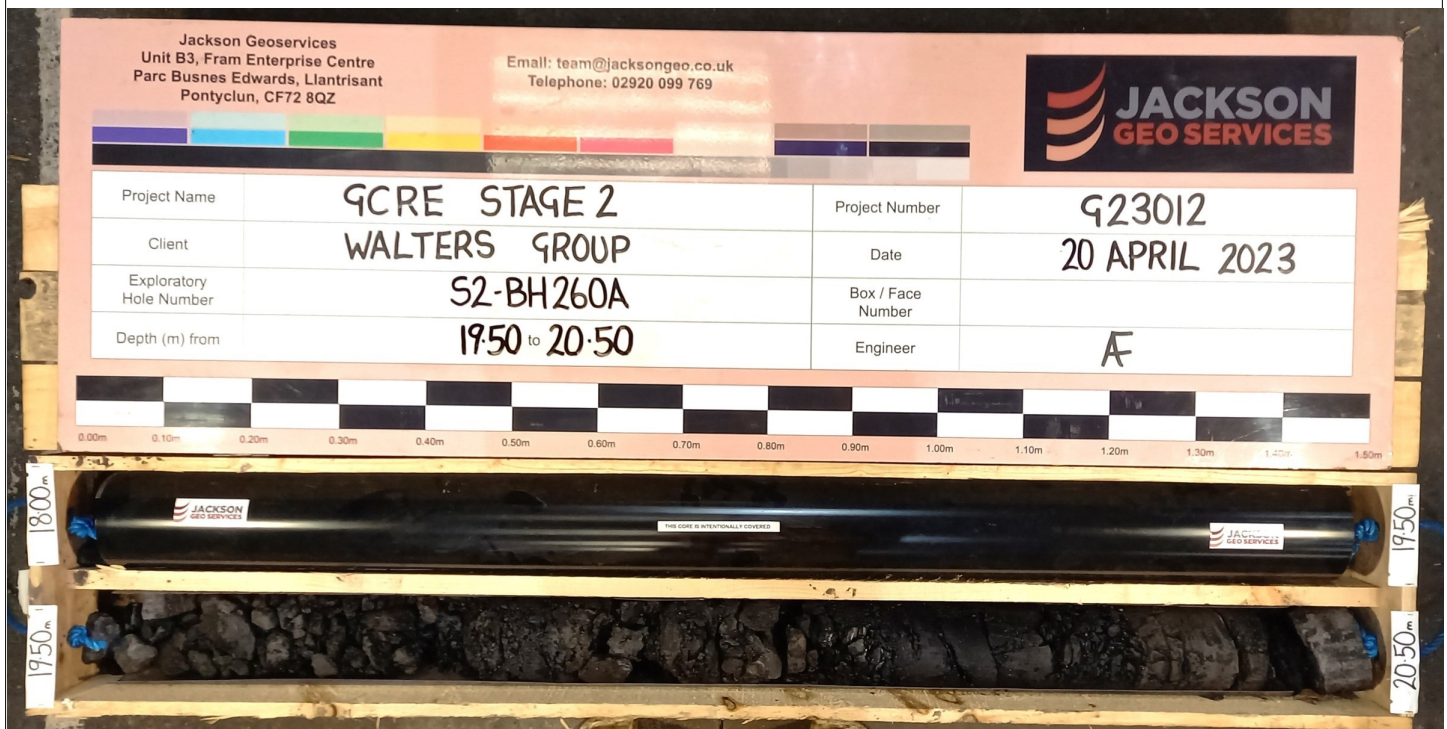



S2-BH260a 16.50 m to 18.00 m

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-BH260a
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284880.87	Equipment	Insulated hand tools/Beretta T44	Sheet 3 of 5
Client	Walters UK Ltd	Northing	210631.44	Method	IP/RO/RC	
Project No	G23012	Level	238.32 mAOD	Termination Reason	Scheduled depth	



S2-BH260a 18.00 m to 19.50 m

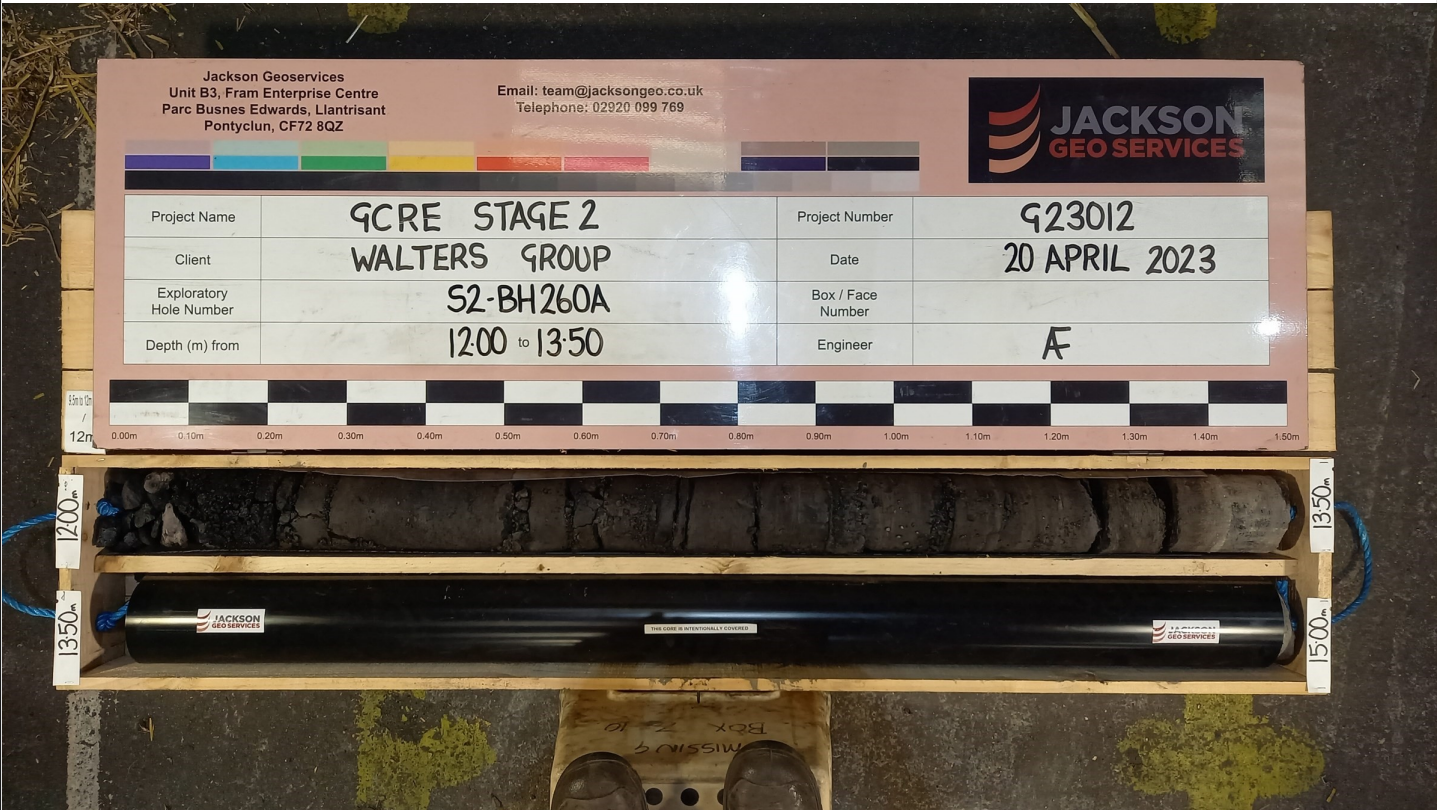


S2-BH260a 19.50 m to 20.50 m

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-BH260a
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284880.87	Equipment	Insulated hand tools/Beretta T44	Sheet 4 of 5
Client	Walters UK Ltd	Northing	210631.44	Method	IP/RO/RC	
Project No	G23012	Level	238.32 mAOD	Termination Reason	Scheduled depth	

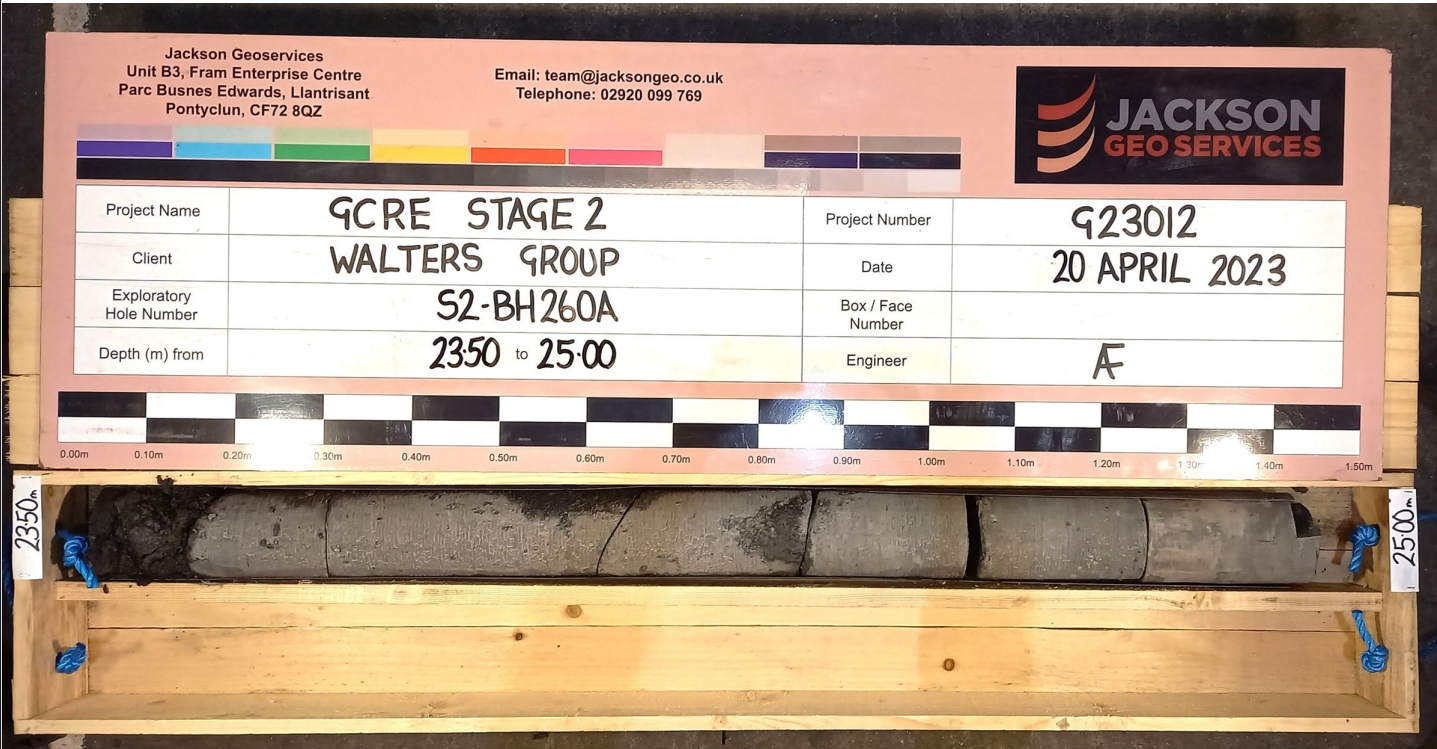


S2-BH260a 20.50 m to 22.00 m



S2-BH260a 22.00 m to 23.50 m

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-BH260a
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284880.87	Equipment	Insulated hand tools/Beretta T44	Sheet 5 of 5
Client	Walters UK Ltd	Northing	210631.44	Method	IP/RO/RC	
Project No	G23012	Level	238.32 mAOD	Termination Reason	Scheduled depth	



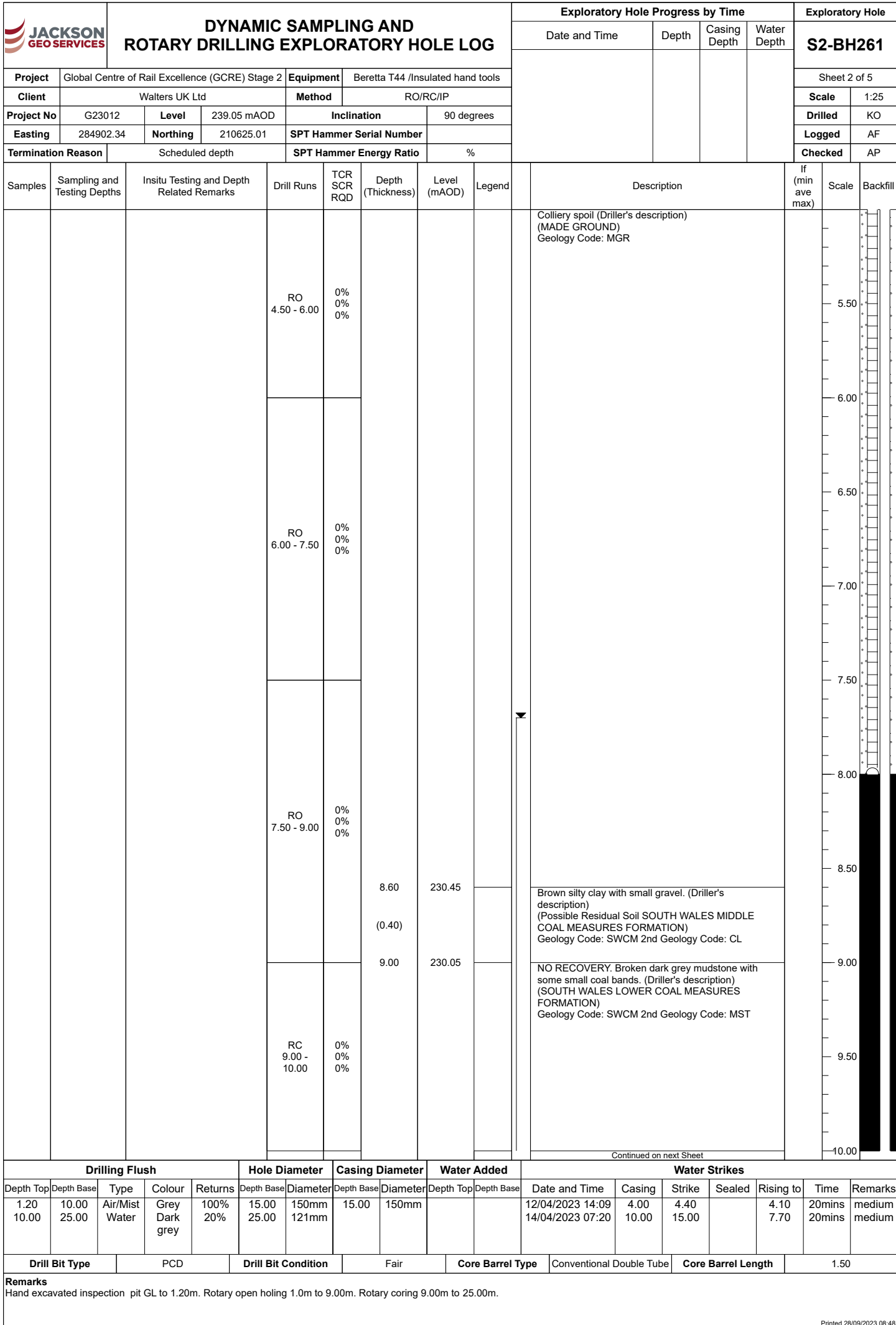
S2-BH260a 23.50 m to 25.00 m



Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	S2-BH261	
12/04/2023 16:30	10.00	10.00	7.30		
13/04/2023 07:00	10.00	10.00	4.70	Sheet 1 of 5	
13/04/2023 16:34	15.00	10.00	7.40		
14/04/2023 07:04	15.00	10.00	5.10	Scale	1:25
14/04/2023 16:24	25.00	15.00	12.70	Drilled	KO
17/04/2023 07:05	25.00	15.00	9.70	Logged	AF
				Checked	AP

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
1.20	10.00	Air/Mist	Grey	100%	15.00	150mm	15.00	150mm			12/04/2023 14:09	4.00	4.40		4.10	20mins	medium
10.00	25.00	Water	Dark grey	20%	25.00	121mm					14/04/2023 07:20	10.00	15.00		7.70	20mins	medium
Drill Bit Type		PCD			Drill Bit Condition		Fair		Core Barrel Type		Conventional Double 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	S2-BH261	
				Sheet 4 of 5	
				Scale	1:25
				Drilled	KO
				Logged	AF
				Checked	AP

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
1.20	10.00	Air/Mist	Grey	100%	15.00	150mm	15.00	150mm			12/04/2023 14:09	4.00	4.40		4.10	20mins	medium
10.00	25.00	Water	Dark grey	20%	25.00	121mm					14/04/2023 07:20	10.00	15.00		7.70	20mins	medium
Drill Bit Type		PCD			Drill Bit Condition		Fair		Core Barrel Type		Conventional Double Tube		Core Barrel Length			1.50	
Remarks																	
Hand excavated inspection pit GL to 1.20m. Rotary open holing 1.0m to 9.00m. Rotary coring 9.00m to 25.00m.																	
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		EXPLORATORY HOLE PHOTOGRAPHS		Exploratory Hole	
				S2-BH261	
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284902.34	Equipment	Beretta T44 /Insulated hand tools
Client	Walters UK Ltd	Northing	210625.01	Method	RO/RC/IP
Project No	G23012	Level	239.05 mAOD	Termination Reason	Scheduled depth

Sheet 1 of 4

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Project Name

GCRE STAGE 2

Project Number

G23012

Client

WALTERS GROUP

Date

17 APRIL 2023

Exploratory Hole Number

S2-BH261

Box / Face Number

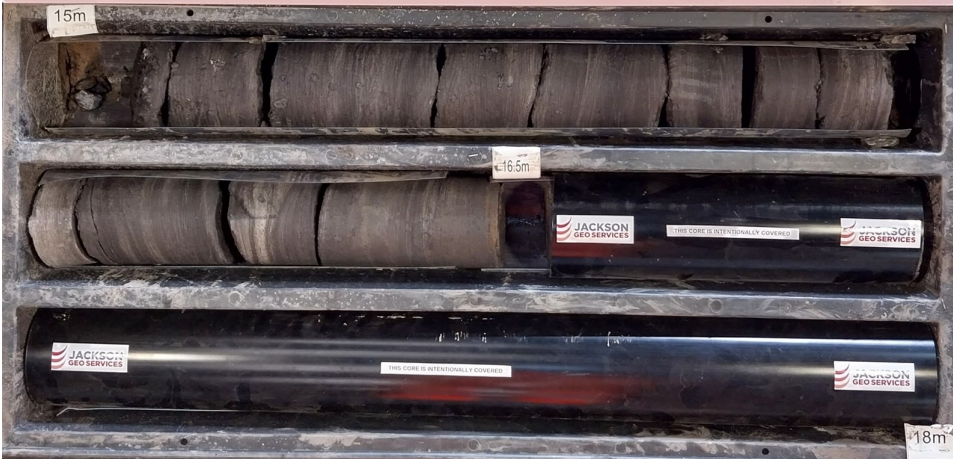
Depth (m) from

15.00 to 16.50

Engineer

A

0.00m0.10m0.20m0.30m0.40m0.50m0.60m0.70m0.80m0.90m1.00m



S2-BH261 15.00 m to 16.50 m

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Project Name

GCRE STAGE 2

Project Number

G23012

Client

WALTERS GROUP

Date

17 APRIL 2023

Exploratory Hole Number

S2-BH261

Box / Face Number

Depth (m) from

16.50 to 18.00

Engineer

A

0.00m0.20m0.30m0.40m0.50m0.60m0.70m0.80m1.00m



S2-BH261 16.50 m to 18.00 m

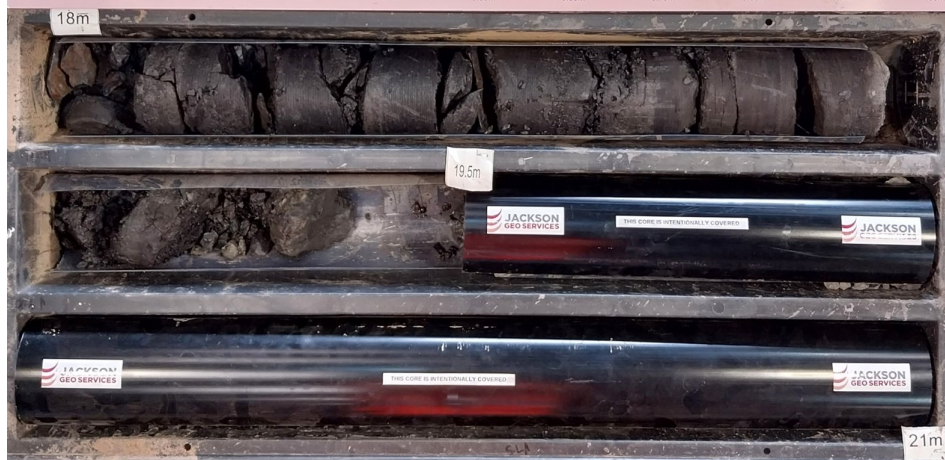
		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-BH261
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284902.34	Equipment	Beretta T44 /Insulated hand tools	Sheet 2 of 4
Client	Walters UK Ltd	Northing	210625.01	Method	RO/RC/IP	
Project No	G23012	Level	239.05 mAOD	Termination Reason	Scheduled depth	

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	17 APRIL 2023
Exploratory Hole Number	S2-BH261	Box / Face Number	
Depth (m) from	18.00 to 19.50	Engineer	A



S2-BH261 18.00 m to 19.50 m

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	17 APRIL 2023
Exploratory Hole Number	S2-BH261	Box / Face Number	
Depth (m) from	19.50 to 21.00	Engineer	A



S2-BH261 19.50 m to 21.00 m

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-BH261
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284902.34	Equipment	Beretta T44 /Insulated hand tools	Sheet 3 of 4
Client	Walters UK Ltd	Northing	210625.01	Method	RO/RC/IP	
Project No	G23012	Level	239.05 mAOD	Termination Reason	Scheduled depth	

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Project Name

GCRE STAGE 2

Project Number

G23012

Client

WALTERS GROUP

Date

17 APRIL 2023

Exploratory Hole Number

S2-BH261

Box / Face Number

Depth (m) from

21.00 to 22.50

Engineer

A

0.00m

0.10m

0.20m

0.30m

0.40m

0.50m

0.60m

0.70m

0.80m

0.90m

1.00m

21m

22.5m

24m

S2-BH261 21.00 m to 22.50 m

Jackson Geoservices

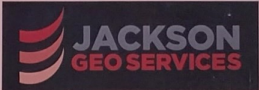
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Project Name

GCRE STAGE 2

Project Number

G23012

Client

WALTERS GROUP

Date

17 APRIL 2023

Exploratory Hole Number

S2-BH261

Box / Face Number

Depth (m) from

22.50 to 24.00

Engineer

A

0.00m

0.10m

0.20m

0.30m

0.40m

0.50m

0.60m

0.70m

0.80m

0.90m

1.00m

22.5m

24m

S2-BH261 22.50 m to 24.00 m



EXPLORATORY HOLE PHOTOGRAPHS

Exploratory Hole

S2-BH261

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284902.34	Equipment	Beretta T44 /Insulated hand tools
Client	Walters UK Ltd	Northing	210625.01	Method	RO/RC/IP
Project No	G23012	Level	239.05 mAOD	Termination Reason	Scheduled depth

Sheet 4 of 4

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	17 APRIL 2023
Exploratory Hole Number	S2-BH261	Box / Face Number	
Depth (m) from	24.00 to 25.00	Engineer	A



S2-BH261 24.00 m to 25.00 m

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Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time		Depth	Casing Depth	Water Depth	S2-BH253.19 Sheet 1 of 1 Scale 1:50 Drilled NC Logged NC Checked AP
24/04/2023 14:15		0.00	5.00	Dry	
24/04/2023 15:30		10.00			

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	
0.00	10.00	Water	Grey/ Black	100%	4.50 5.00 10.00	152mm 101mm 70mm	4.50 5.00	152mm 101mm										
Drill Bit Type		Tri-cone Rock Roller			Drill Bit Condition		Good		Core Barrel Type			Core Barrel Length						

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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	S2-BH253.2					
								20/04/2023 09:20 20/04/2023 10:40		0.00 10.00	5.00	Dry						
Project	Global Centre of Rail Excellence (GCRE) Stage 2				Equipment	Klemm 60601				Sheet 1 of 1								
Client	Walters UK Ltd				Method	RO				Scale	1:50							
Project No	G23012		Level	234.65 mAOD		Inclination	90 degrees		Drilled		NC							
Easting	282988.88		Northing	211855.91		SPT Hammer Serial Number			Logged		NC							
Termination Reason		Scheduled depth				SPT Hammer Energy Ratio		%		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						
	4.50 - 5.50	Bentonite seal injected, 1.50m of 152mm casing removed.		RO 0.00 - 1.50		0.00	233.65		NO RECOVERY. Grey fill (Driller's description). (MADE GROUND) Geology Code: MGR		0.50							
						1.00								NO RECOVERY. Brown sandy CLAY (Driller's description). (Probable weathered SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: CL				
				RO 1.50 - 3.00		(3.50)												
						RO 3.00 - 4.50							230.15		NO RECOVERY. Grey MUDSTONE (Driller's description). (Probable SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST			
				RO 4.50 - 5.00			228.15											
						RO 5.00 - 8.00							226.65		NO RECOVERY. COAL (Driller's description). (Probable SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: COAL			
				RO 8.00 - 10.00			(2.00)										NO RECOVERY. Grey MUDSTONE (Driller's description). (Probable SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST	
				End of Exploratory Hole at 10.00m														
				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	
0.00	10.00	Water	Grey/Black	100%	4.50	152mm 101mm	5.00	152mm 101mm										
Drill Bit Type		Tri-cone Rock Roller		Drill Bit Condition		Good		Core Barrel Type				Core Barrel Length						
Remarks Rotary open holing GL to 10.00m.																		
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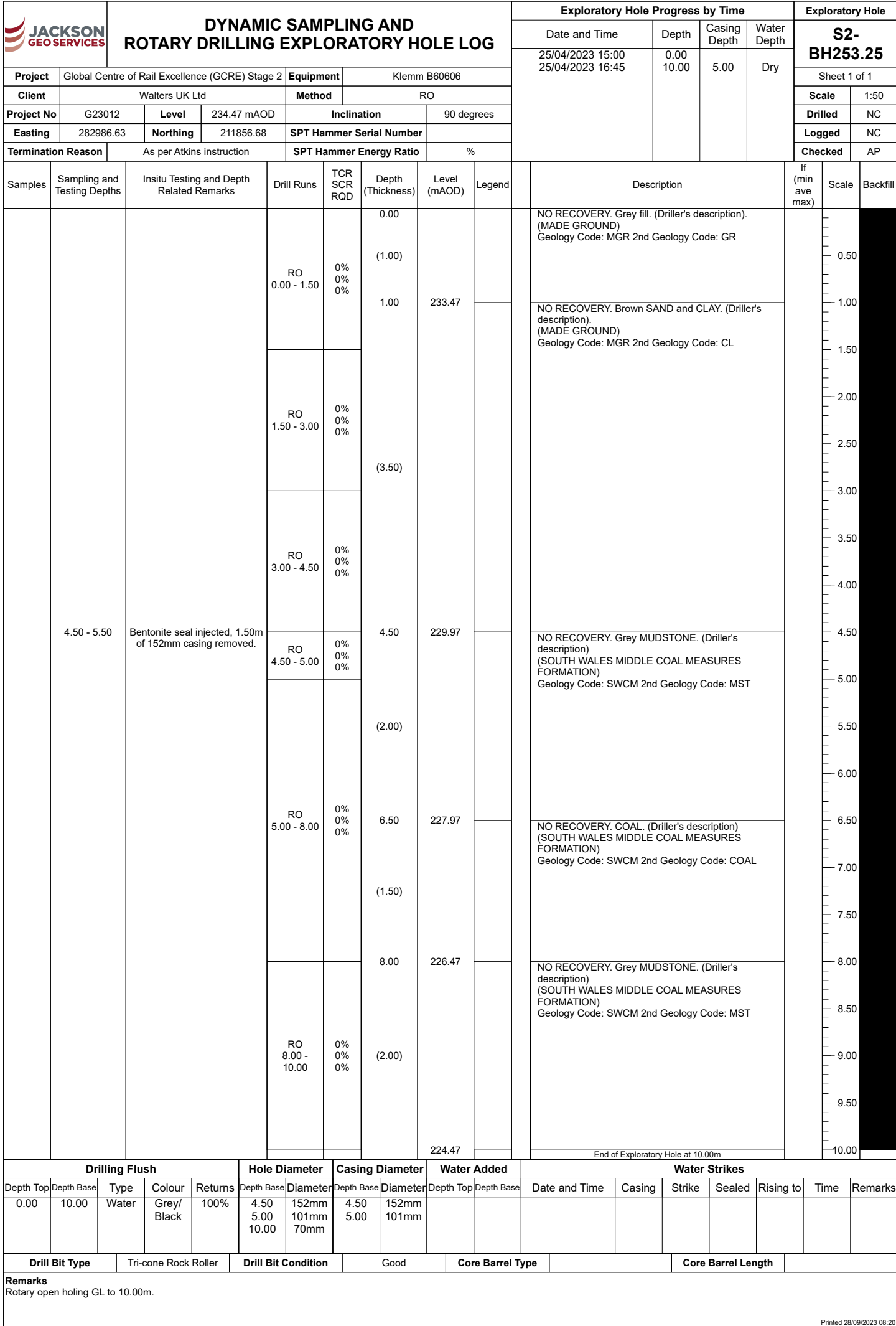


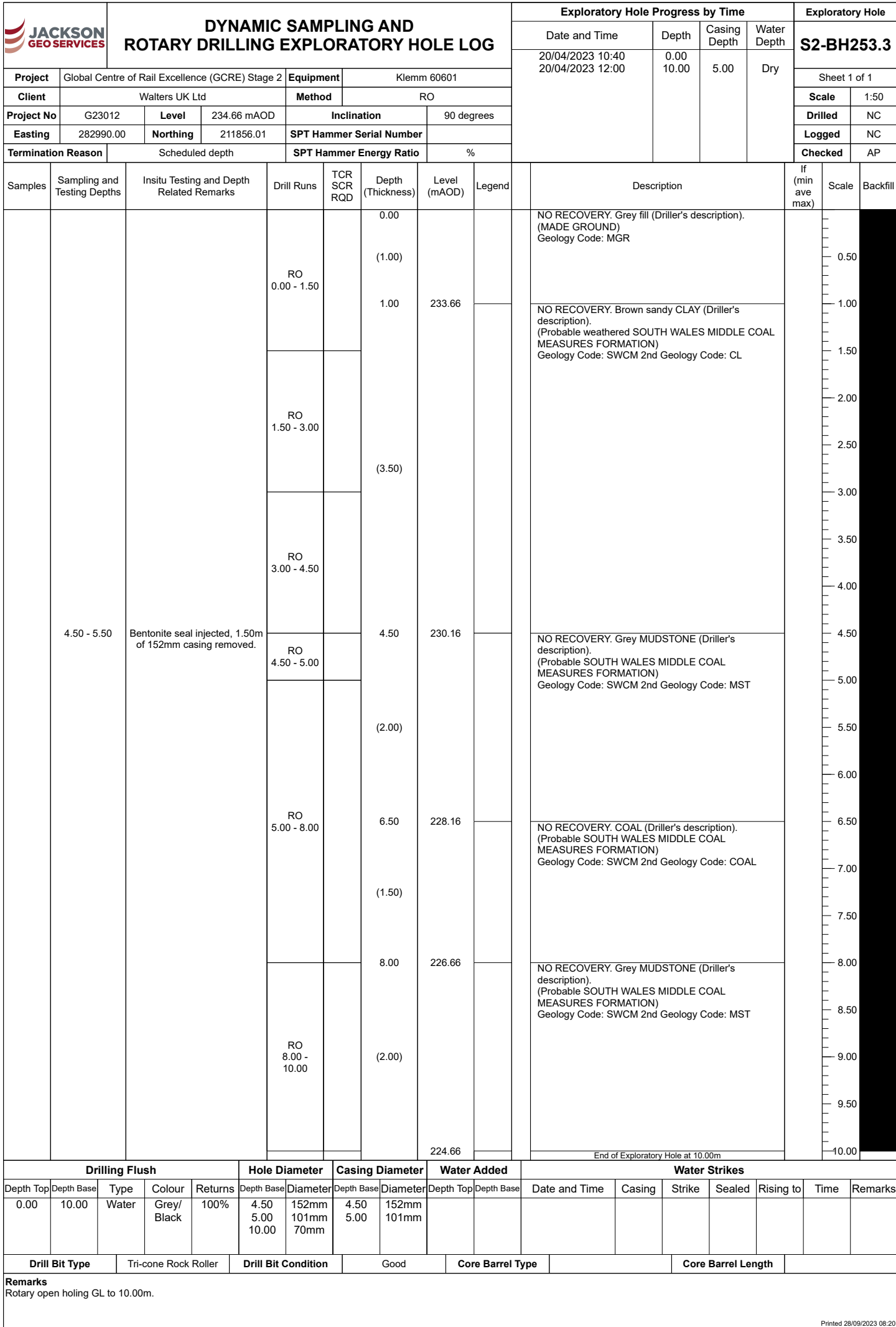
Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time		Depth	Casing Depth	Water Depth	S2-BH253.23 Sheet 1 of 1 Scale 1:50 Drilled NC Logged NC Checked AP
25/04/2023 11:30		0.00			
25/04/2023 13:15		10.00	5.00	Dry	

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	
0.00	10.00	Water	Grey/ Black	100%	4.50	152mm	4.50	152mm										
					5.00	101mm	5.00	101mm										
					10.00	70mm												
Drill Bit Type		Tri-cone Rock Roller			Drill Bit Condition		Good		Core Barrel Type					Core Barrel Length				

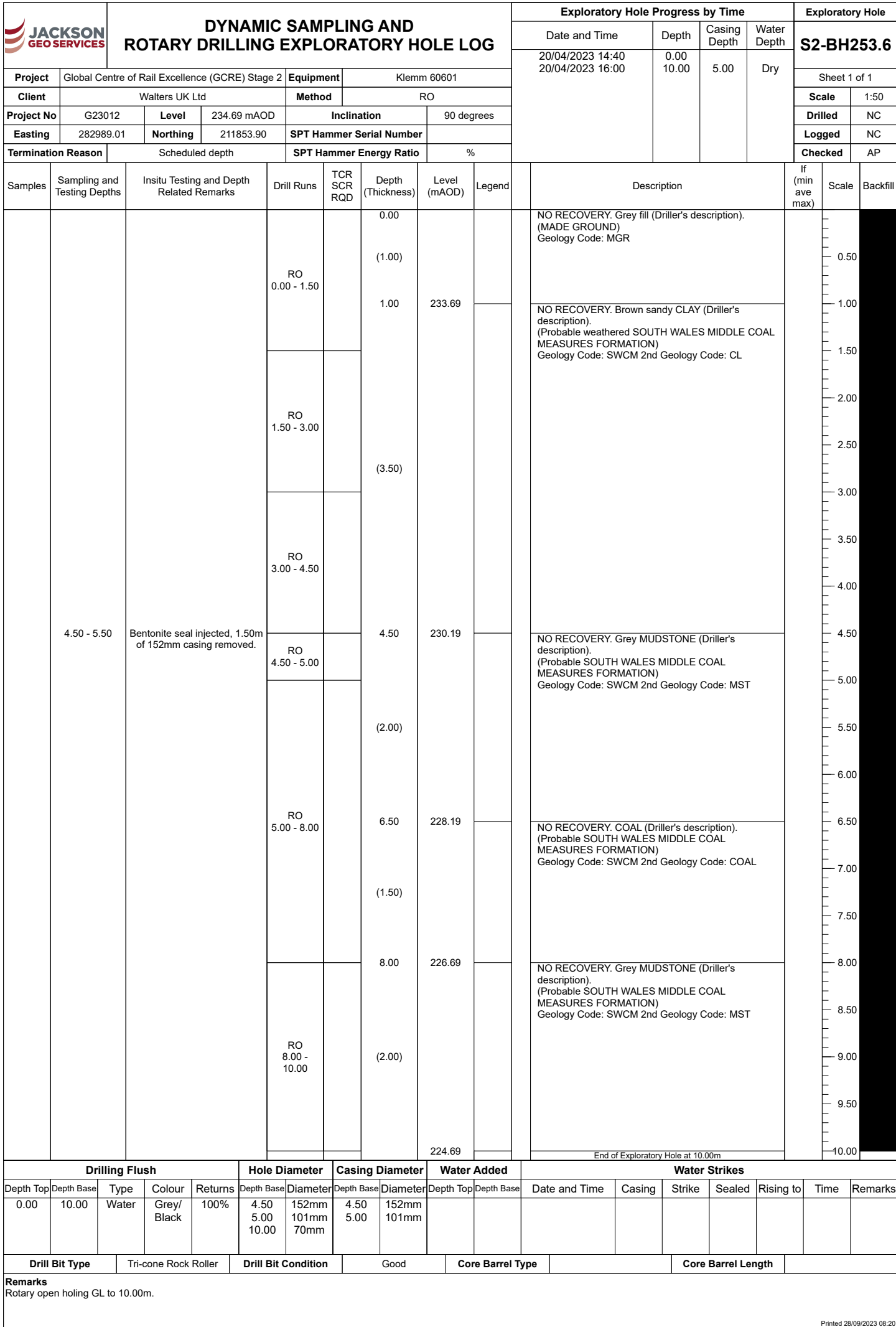
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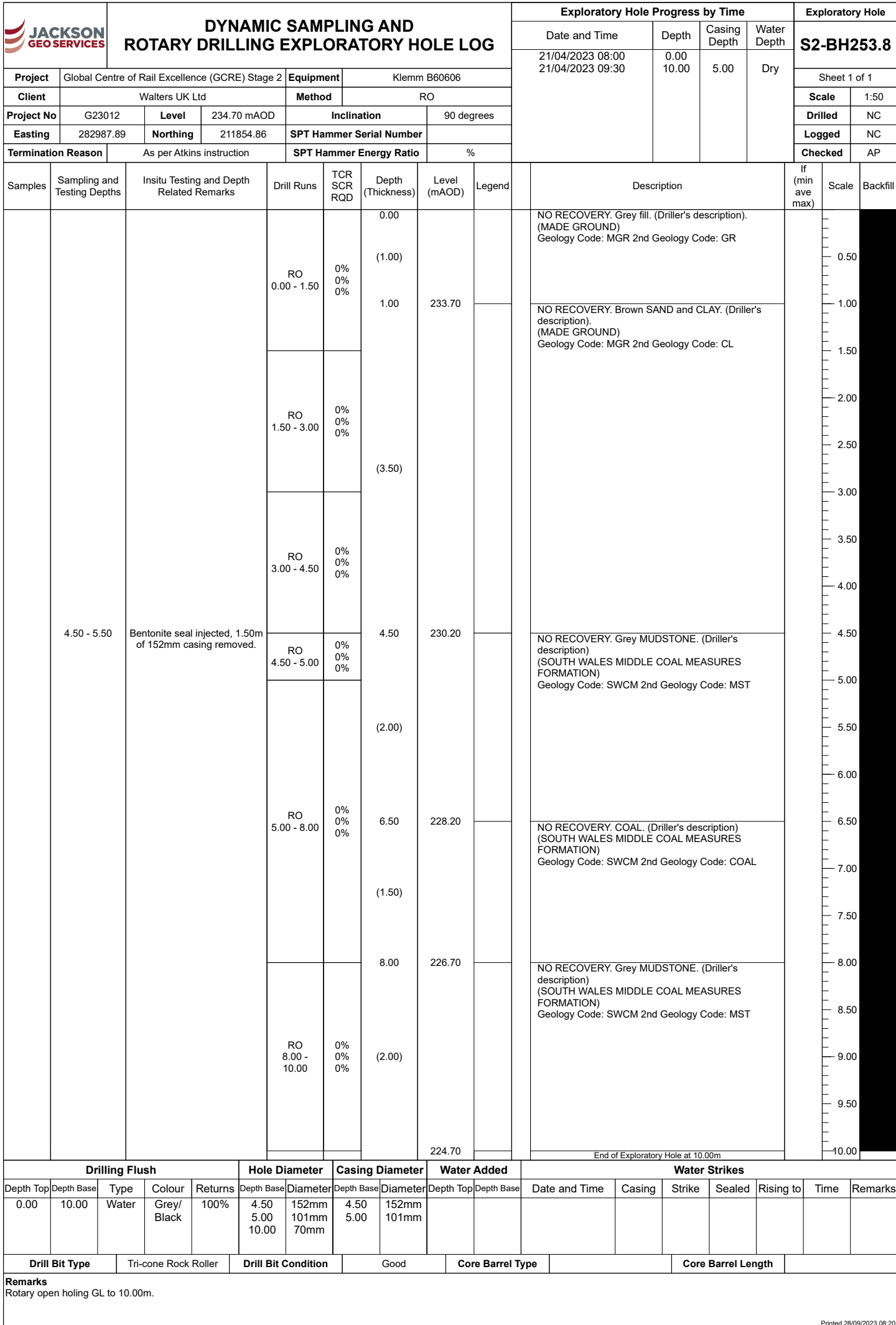




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		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	S2-BH254.1				
								24/04/2023 08:00 26/04/2023 09:15		0.00 8.50	4.00	Dry					
Project	Global Centre of Rail Excellence (GCRE) Stage 2			Equipment	Klemm 660606					Sheet 1 of 1							
Client	Walters UK Ltd			Method	RO					Scale	1:50						
Project No	G23012	Level	237.61 mAOD	Inclination		90 degrees				Drilled	NC						
Easting	283008.94	Northing	211829.59	SPT Hammer Serial Number						Logged	NC						
Termination Reason		As per Atkins instruction.		SPT Hammer Energy Ratio		%				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					
	3.50 - 4.50	Bentonite seal injected. 1.00m of 152mm casing removed.	RO 0.00 - 1.50	0% 0% 0%	0.00 (1.00) 1.00	236.61		NO RECOVERY. Grey fill. (Driller's description). (MADE GROUND) Geology Code: MGR		0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00							
			RO 1.50 - 3.00	0% 0% 0%	(2.50)			NO RECOVERY. Brown SAND and CLAY. (Driller's description). (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR									
			RO 3.00 - 3.50	0% 0% 0%	3.50	234.11	NO RECOVERY. SHALE. (Driller's description). (Probable SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST										
			DS 3.50 - 6.50	0% 0% 0%	(3.50)	7.00	230.61	NO RECOVERY. Grey MUDSTONE. (Driller's description). (Probable SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST									
			DS 6.50 - 8.50	0% 0% 0%	(1.50)	229.11	End of Exploratory Hole at 8.50m										
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
0.00	8.50	Water	Grey	100%	1.00 4.00 8.50	152mm 101mm 70mm	1.00 4.00	152mm 101mm									
Drill Bit Type		Tri-cone Rock Roller		Drill Bit Condition		Good		Core Barrel Type				Core Barrel Length					
Remarks Rotary open holing GL to 8.50m.																	
Printed 28/09/2023 08:20																	



Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	S2-BH254.10 Sheet 1 of 1 Scale 1:50 Drilled NC Logged NC Checked AP	
27/04/2023 10:30 27/04/2023 11:45	0.00 8.50	4.00	Dry		

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	
0.00	8.50	Water	Dark grey	100%	1.00	152mm	1.00	152mm										
					4.00	101mm	4.00	101mm										
					8.50	70mm												
Drill Bit Type		Tri-cone Rock Roller			Drill Bit Condition		Good		Core Barrel Type					Core Barrel Length				

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Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	S2-BH254.13	
27/04/2023 14:15 27/04/2023 15:30	0.00 8.50	4.00	Dry		
				Sheet 1 of 1	
				Scale	1:50
				Drilled	NC
				Logged	NC
				Checked	AP

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	
0.00	8.50	Water	Dark grey	100%	1.00	152mm	1.00	152mm										
					4.00	101mm	4.00	101mm										
					8.50	70mm												
Drill Bit Type		Tri-cone Rock Roller			Drill Bit Condition		Good		Core Barrel Type					Core Barrel Length				

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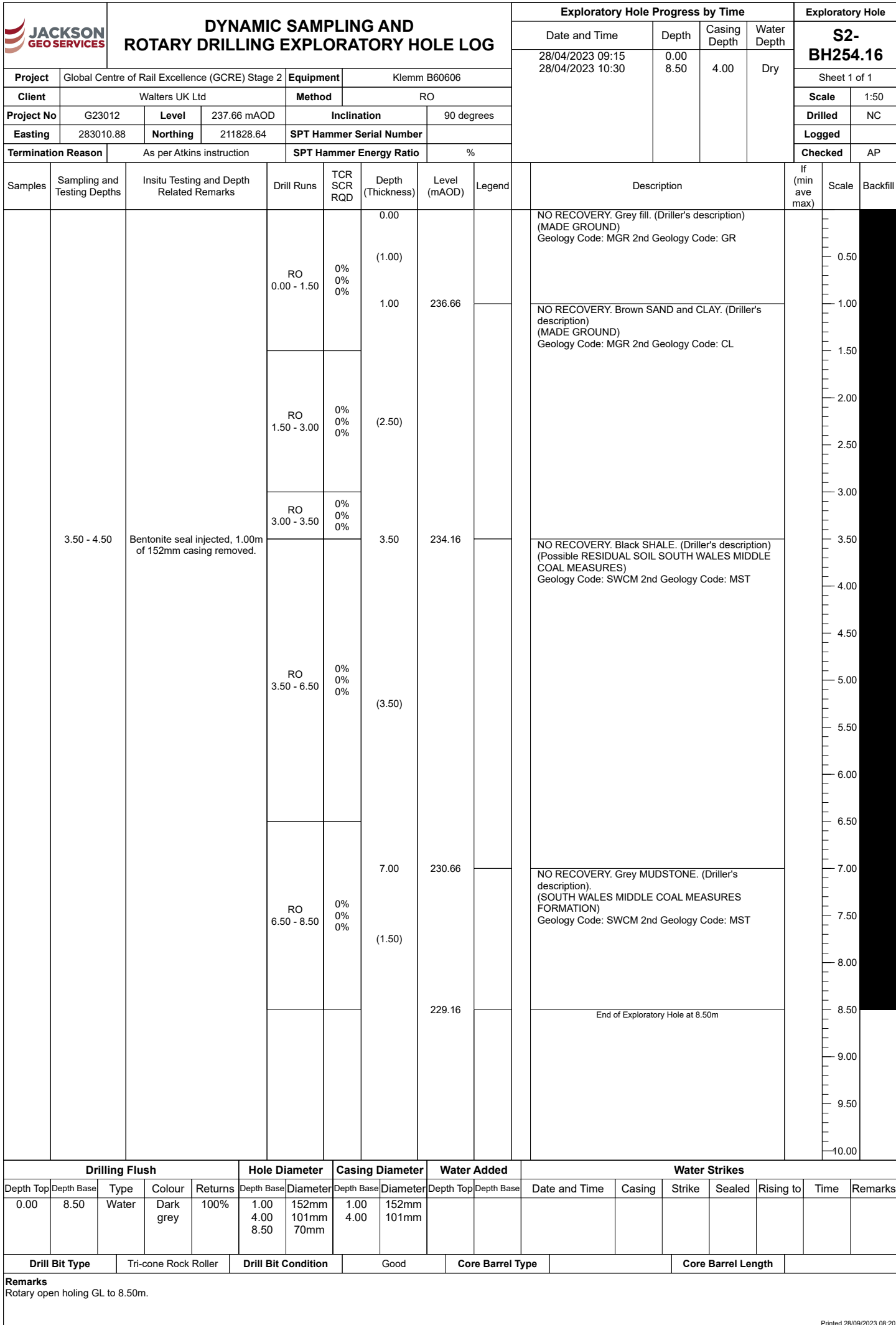
		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	S2- BH254.14				
								27/04/2023 15:30 27/04/2023 16:45		0.00 8.50	4.00	Dry					
Project	Global Centre of Rail Excellence (GCRE) Stage 2			Equipment	Klemm B60606						Sheet 1 of 1						
Client	Walters UK Ltd			Method	RO						Scale	1:50					
Project No	G23012		Level	237.50 mAOD		Inclination	90 degrees					Drilled	NC				
Easting	283010.95		Northing	211830.49		SPT Hammer Serial Number						Logged	NC				
Termination Reason	As per Atkins instruction			SPT Hammer Energy Ratio	%						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			
	3.50 - 4.50	Bentonite seal injected, 1.00m of 152mm casing removed.	RO 0.00 - 1.50	0% 0% 0%	0.00 (1.00) 1.00	236.50		NO RECOVERY. Grey fill. (Driller's description) (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR									
			RO 1.50 - 3.00	0% 0% 0%	(2.50)			NO RECOVERY. Brown SAND and CLAY. (Driller's description) (MADE GROUND) Geology Code: MGR 2nd Geology Code: CL									
			RO 3.00 - 3.50	0% 0% 0%	3.50	234.00		NO RECOVERY. Black SHALE. (Driller's description) (Possible RESIDUAL SOIL SOUTH WALES MIDDLE COAL MEASURES) Geology Code: SWCM 2nd Geology Code: MST									
			RO 3.50 - 6.50	0% 0% 0%	(3.50)												
			RO 6.50 - 8.50	0% 0% 0%	7.00 (1.50)	230.50	NO RECOVERY. Grey MUDSTONE. (Driller's description) (SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST										
					229.00		End of Exploratory Hole at 8.50m										
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
0.00	8.50	Water	Dark grey	100%	1.00 4.00 8.50	152mm 101mm 70mm	1.00 4.00	152mm 101mm									
Drill Bit Type		Tri-cone Rock Roller		Drill Bit Condition		Good		Core Barrel Type				Core Barrel Length					
Remarks Rotary open holing GL to 8.50m.																	
Printed 28/09/2023 08:20																	



Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	S2-BH254.15 Sheet 1 of 1 Scale 1:50 Drilled NC Logged Checked AP	
28/04/2023 08:00 28/04/2023 09:15	0.00 8.50	4.00	Dry		

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	
0.00	8.50	Water	Dark grey	100%	1.00	152mm	1.00	152mm										
					4.00	101mm	4.00	101mm										
					8.50	70mm												
Drill Bit Type		Tri-cone Rock Roller			Drill Bit Condition		Good		Core Barrel Type					Core Barrel Length				

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Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	S2-BH254.17 Sheet 1 of 1 Scale 1:50 Drilled NC Logged Checked AP	
28/04/2023 10:30 28/04/2023 11:45	0.00 8.50	4.00	Dry		

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	
0.00	8.50	Water	Dark grey	100%	1.00	152mm	1.00	152mm										
					4.00	101mm	4.00	101mm										
					8.50	70mm												
Drill Bit Type		Tri-cone Rock Roller			Drill Bit Condition		Good		Core Barrel Type					Core Barrel Length				

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Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	S2-BH254.19	
28/04/2023 13:00 28/04/2023 14:15	0.00 8.50	4.00	Dry		
				Sheet 1 of 1	
				Scale	1:50
				Drilled	NC
				Logged	
				Checked	AP

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
0.00	8.50	Water	Dark grey	100%	1.00	152mm	1.00	152mm									
					4.00	101mm	4.00	101mm									
					8.50	70mm											
Drill Bit Type		Tri-cone Rock Roller			Drill Bit Condition		Good		Core Barrel Type					Core Barrel Length			

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Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	S2-BH254.2	
26/04/2023 09:15 26/04/2023 10:30	0.00 8.50	4.00	Dry		
				Sheet 1 of 1	
				Scale	1:50
				Drilled	NC
				Logged	NC
				Checked	AP

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	
0.00	8.50	Water	Grey	100%	1.00	152mm	1.00	152mm										
					4.00	101mm	4.00	101mm										
					8.50	70mm												
Drill Bit Type		Tri-cone Rock Roller			Drill Bit Condition		Good		Core Barrel Type					Core Barrel Length				

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Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	S2-BH254.22 Sheet 1 of 1 Scale 1:50 Drilled NC Logged NC Checked AP	
02/05/2023 08:00 02/05/2023 09:15	0.00 8.50	4.00	Dry		

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	
0.00	8.50	Water	Dark grey	100%	1.00	152mm	1.00	152mm										
					4.00	101mm	4.00	101mm										
					8.50	70mm												
Drill Bit Type		Tri-cone Rock Roller			Drill Bit Condition		Good		Core Barrel Type					Core Barrel Length				

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Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	S2-BH254.23	
02/05/2023 09:15	0.00	4.00	Dry	Sheet 1 of 1	
02/05/2023 10:30	8.50			Scale	1:50
				Drilled	NC
				Logged	NC
				Checked	AP

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	
0.00	8.50	Water	Dark grey	100%	1.00	152mm	1.00	152mm										
					4.00	152mm	4.00	101mm										
					8.50	70mm												
Drill Bit Type		Tri-cone Rock Roller			Drill Bit Condition		Good		Core Barrel Type					Core Barrel Length				

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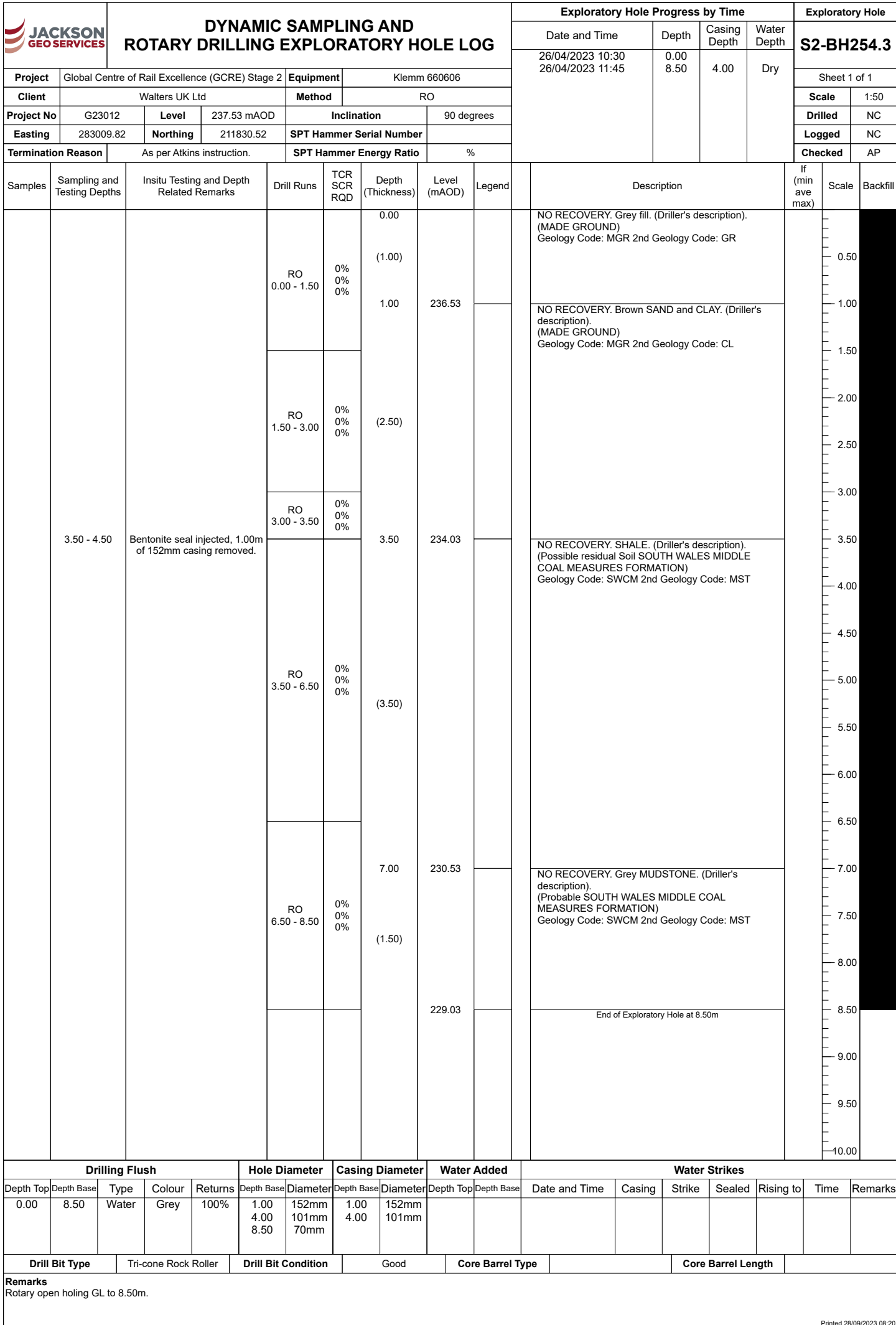


Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	S2-BH254.24 Sheet 1 of 1 Scale 1:50 Drilled NC Logged NC Checked AP	
02/05/2023 10:30 02/05/2023 11:45	0.00 8.50	4.00	Dry		

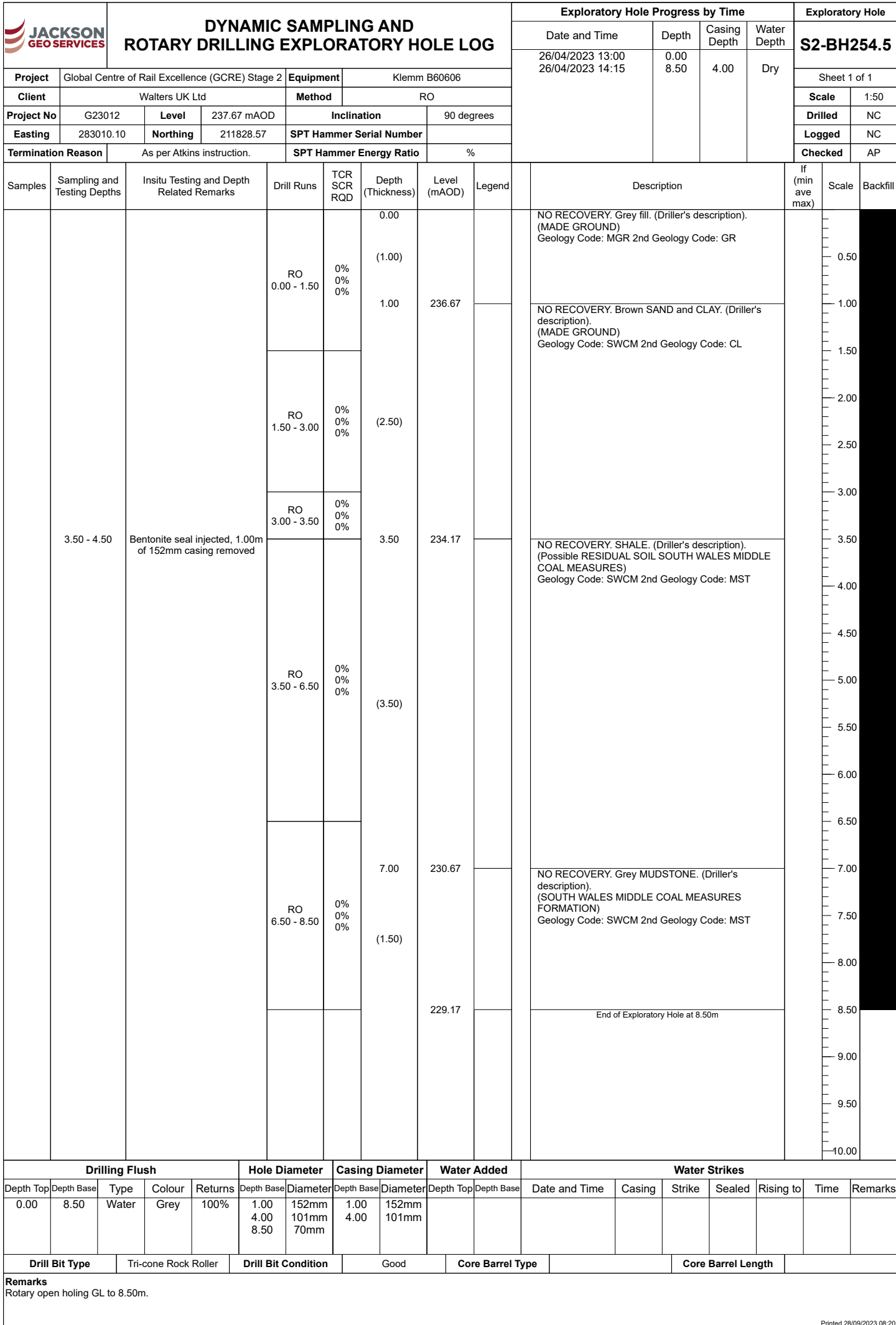
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes							
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks	
0.00	8.50	Water	Dark grey	100%	1.00	152mm	1.00	152mm										
					4.00	101mm	4.00	101mm										
					8.50	70mm												
Drill Bit Type		Tri-cone Rock Roller			Drill Bit Condition		Good		Core Barrel Type					Core Barrel Length				

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Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	S2-BH254.6	
26/04/2023 14:15 26/04/2023 15:30	0.00 8.50	4.00	Dry		
				Sheet 1 of 1	
				Scale	1:50
				Drilled	NC
				Logged	NC
				Checked	AP

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	
0.00	8.50	Water	Grey	100%	1.00	152mm	1.00	152mm										
					4.00	101mm	4.00	101mm										
					8.50	70mm												
Drill Bit Type		Tri-cone Rock Roller			Drill Bit Condition		Good		Core Barrel Type					Core Barrel Length				

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Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	S2-BH254.9	
27/04/2023 09:15 27/04/2023 10:30	0.00 8.50	4.00	Dry		
				Sheet 1 of 1	
				Scale	1:50
				Drilled	NC
				Logged	NC
				Checked	AP

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	
0.00	8.50	Water	Dark grey	100%	1.00	152mm	1.00	152mm										
					4.00	101mm	4.00	101mm										
					8.50	70mm												
Drill Bit Type		Tri-cone Rock Roller			Drill Bit Condition		Good		Core Barrel Type					Core Barrel Length				

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Exploratory Hole Progress by Time				Exploratory Hole									
Date and Time		Depth	Casing Depth	Water Depth	S2-BH255.12 Sheet 1 of 1 <table><tr><td>Scale</td><td>1:50</td></tr><tr><td>Drilled</td><td>NJ</td></tr><tr><td>Logged</td><td></td></tr><tr><td>Checked</td><td>AP</td></tr></table>	Scale	1:50	Drilled	NJ	Logged		Checked	AP
Scale	1:50												
Drilled	NJ												
Logged													
Checked	AP												
04/05/2023 13:30 04/05/2023 15:00		0.00 8.50	4.00	Dry									

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
0.00	8.50	Water	Grey	100%	3.50	152mm	3.50	152mm									
					4.00	101mm	4.00	101mm									
					8.50	70mm											
Drill Bit Type					Drill Bit Condition					Core Barrel Type					Core Barrel Length		

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Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	S2-BH255.17	
05/05/2023 11:00 05/05/2023 12:30	0.00 8.50	4.00	Dry		
				Sheet 1 of 1	
				Scale	1:50
				Drilled	NJ
				Logged	
				Checked	AP

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	
0.00	8.50	Water	Black/ grey	100%	3.50	152mm	3.50	152mm										
					4.00	101mm	4.00	101mm										
					8.50	70mm												
Drill Bit Type		Tri-cone Rock Roller			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length					

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Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	S2-BH255.20	
05/05/2023 15:30	0.00	4.00	Dry	Sheet 1 of 1	
05/05/2023 17:00	8.50			Scale	1:50
				Drilled	NJ
				Logged	
				Checked	AP

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
0.00	8.50	Water	Black/ grey	100%	3.50	152mm	3.50	152mm									
					4.00	101mm	4.00	101mm									
					8.50	70mm											
Drill Bit Type		Tri-cone Rock Roller		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length					

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Exploratory Hole Progress by Time				Exploratory Hole									
Date and Time		Depth	Casing Depth	Water Depth	S2-BH255.21 Sheet 1 of 1 <table><tr><td>Scale</td><td>1:50</td></tr><tr><td>Drilled</td><td>NJ</td></tr><tr><td>Logged</td><td></td></tr><tr><td>Checked</td><td>AP</td></tr></table>	Scale	1:50	Drilled	NJ	Logged		Checked	AP
Scale	1:50												
Drilled	NJ												
Logged													
Checked	AP												
09/05/2023 08:00		0.00	4.00	Dry									
09/05/2023 10:15		8.50											

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
0.00	8.50	Water	Black/ grey	100%	3.50	152mm	3.50	152mm									
					4.00	101mm	4.00	101mm									
					8.50	70mm											
Drill Bit Type		Tri-cone Rock Roller		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length					

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Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	S2-BH255.23	
09/05/2023 11:30 09/05/2023 12:45	0.00 8.50	4.00	Dry		
				Sheet 1 of 1	
				Scale	1:50
				Drilled	NJ
				Logged	
				Checked	AP

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
0.00	8.50	Water	Black/ grey	100%	3.50	152mm	3.50	152mm									
					4.00	101mm	4.00	101mm									
					8.50	70mm											
Drill Bit Type		Tri-cone Rock Roller			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length				

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JACKSON GEO SERVICES		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	S2- BH255.24				
								09/05/2023 14:00 09/05/2023 15:30		0.00 13.00	8.50	Dry					
Project	Global Centre of Rail Excellence (GCRE) Stage 2			Equipment	Klemm B60621						Sheet 1 of 2						
Client	Walters UK Ltd			Method	RO						Scale	1:50					
Project No	G23012	Level	240.74 mAOD	Inclination		90 degrees					Drilled	NJ					
Easting	283019.24	Northing	211800.58	SPT Hammer Serial Number							Logged						
Termination Reason		As per Atkins instruction		SPT Hammer Energy Ratio		%					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			
				RO 0.00 - 1.50	0% 0% 0%	0.00			NO RECOVERY. Very soft drilling. (Driller's description) (MADE GROUND) Geology Code: MGR 2nd Geology Code: CL								
				RO 1.50 - 3.00	0% 0% 0%								0.50				
				RO 3.00 - 4.50	0% 0% 0%								1.00				
				RO 4.50 - 6.00	0% 0% 0%	(8.00)							1.50				
				RO 6.00 - 7.50	0% 0% 0%								2.00				
				RO 7.50 - 8.00	0% 0% 0%								2.50				
	8.00 - 8.10	Bentonite seal injected, 1.00m of 152mm casing removed and 8.50m of 101mm casing added.		RO 8.00 - 8.50	0% 0% 0%	8.00	232.74		NO RECOVERY. Grey MUDSTONE. (Driller's description) (SOUTH WALES MIDDLE COAL MEASURES) Geology Code: SWCM 2nd Geology Code: MST								
													3.00				
													3.50				
													4.00				
										4.50							
										5.00							
										5.50							
										6.00							
										6.50							
										7.00							
										7.50							
										8.00							
										8.50							
										9.00							
										9.50							
										10.00							
Continued on next Sheet																	
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
0.00	8.50	Water	N/A	0%	7.00	152mm	7.00	152mm									
8.50	13.00	Water	Grey	100%	8.50	101mm	8.50	101mm									
					13.00	70mm											
Drill Bit Type		Tri-cone Rock Roller		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length					
Remarks																	
Rotary open holing GL to 13.00m.																	
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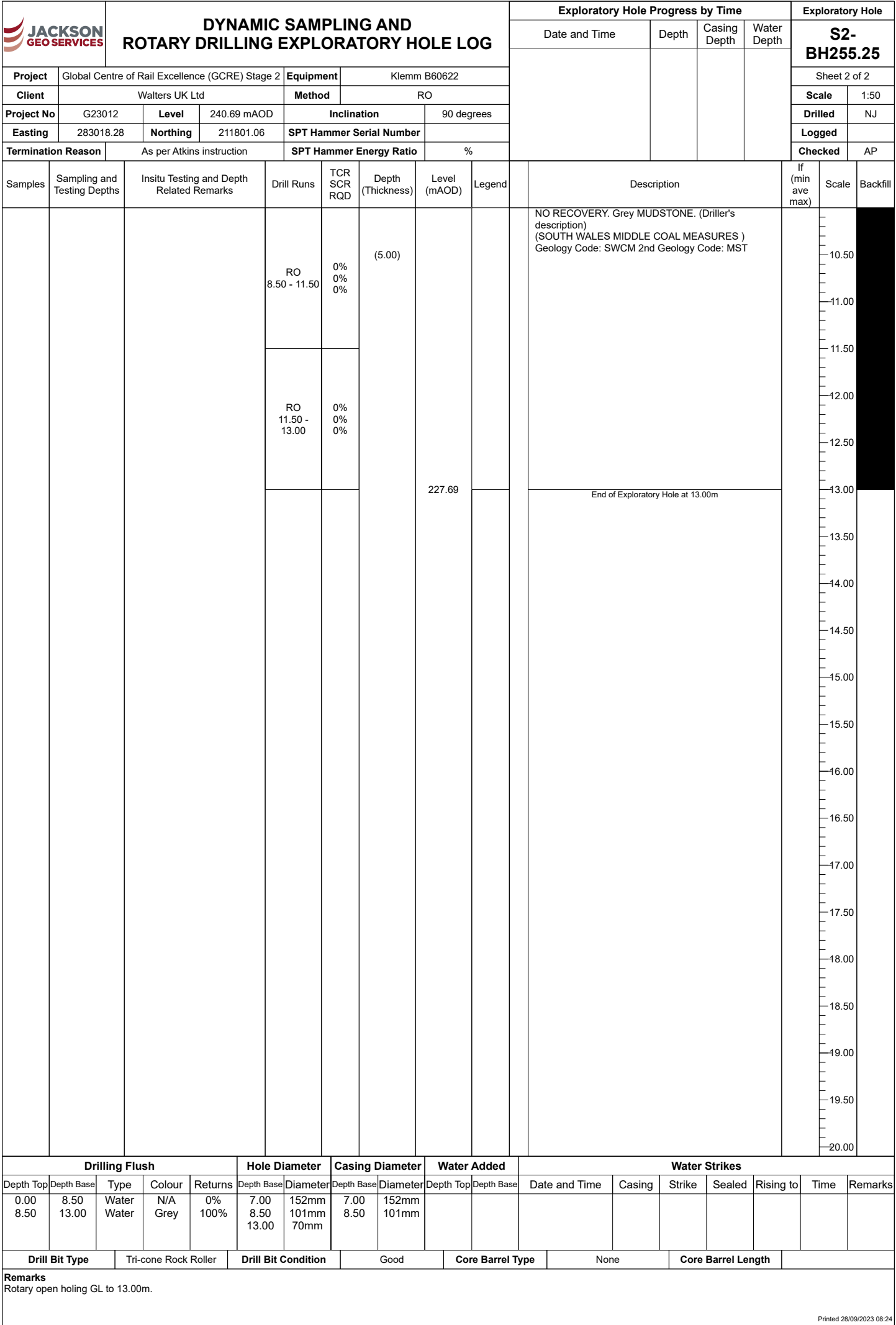
		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG										Exploratory Hole Progress by Time					Exploratory Hole	
												Date and Time		Depth	Casing Depth	Water Depth	S2- BH255.24	
Project		Global Centre of Rail Excellence (GCRE) Stage 2				Equipment		Klemm B60621				Sheet 2 of 2						
Client		Walters UK Ltd				Method		RO				Scale	1:50					
Project No		G23012		Level		240.74 mAOD		Inclination		90 degrees		Drilled	NJ					
Easting		283019.24		Northing		211800.58		SPT Hammer Serial Number				Logged						
Termination Reason		As per Atkins instruction				SPT Hammer Energy Ratio		%				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		
						RO 8.50 - 11.50		0% 0% 0%	(5.00)			NO RECOVERY. Grey MUDSTONE. (Driller's description) (SOUTH WALES MIDDLE COAL MEASURES) Geology Code: SWCM 2nd Geology Code: MST			10.50			
						RO 11.50 - 13.00		0% 0% 0%		227.74		End of Exploratory Hole at 13.00m			11.00			
															11.50			
															12.00			
															12.50			
															13.00			
															13.50			
															14.00			
															14.50			
															15.00			
															15.50			
															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	
0.00	8.50	Water	N/A	0%	7.00	152mm	7.00	152mm										
8.50	13.00	Water	Grey	100%	8.50	101mm	8.50	101mm										
					13.00	70mm												
Drill Bit Type		Tri-cone Rock Roller			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length					
Remarks																		
Rotary open holing GL to 13.00m.																		
Printed 28/09/2023 08:24																		



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
					0.00			NO RECOVERY. Very soft drilling. (Driller's description) (MADE GROUND) Geology Code: MGR 2nd Geology Code: CL			
			RO 0.00 - 1.50	0% 0% 0%						0.50	
										1.00	
										1.50	
			RO 1.50 - 3.00	0% 0% 0%						2.00	
										2.50	
										3.00	
			RO 3.00 - 4.50	0% 0% 0%						3.50	
					(8.00)					4.00	
										4.50	
			RO 4.50 - 6.00	0% 0% 0%						5.00	
										5.50	
			RO 6.00 - 7.50	0% 0% 0%						6.00	
										6.50	
			RO 7.50 - 8.00	0% 0% 0%						7.00	
										7.50	
	8.00 - 8.10	Bentonite seal injected, 1.00m of 152mm casing removed and 8.50m of 101mm casing added.	RO 8.00 - 8.50	0% 0% 0%	8.00	232.69		NO RECOVERY. Grey MUDSTONE. (Driller's description) (SOUTH WALES MIDDLE COAL MEASURES) Geology Code: SWCM 2nd Geology Code: MST		8.00	
										8.50	
										9.00	
										9.50	
										10.00	
								Continued on next Sheet			

Drill Bit Type	Tri-cone Rock Roller	Drill Bit Condition	Good	Core Barrel Type	None	Core Barrel Length	
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Exploratory Hole Progress by Time				Exploratory Hole									
Date and Time		Depth	Casing Depth	Water Depth	S2-BH255.47 Sheet 1 of 2 <table><tr><td>Scale</td><td>1:50</td></tr><tr><td>Drilled</td><td>NJ</td></tr><tr><td>Logged</td><td></td></tr><tr><td>Checked</td><td>AP</td></tr></table>	Scale	1:50	Drilled	NJ	Logged		Checked	AP
Scale	1:50												
Drilled	NJ												
Logged													
Checked	AP												
10/05/2023 15:30 10/05/2023 17:00		0.00 12.00	7.50	Dry									

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
0.00	7.00	Water	N/A	0%	7.00	152mm	7.00	152mm									
7.00	12.00	Water	Grey	100%	7.50	101mm	7.50	101mm									
					12.00	70mm											
Drill Bit Type		Tri-cone Rock Roller			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length				
Remarks																	
Rotary open holing GL to 12.00m.																	