



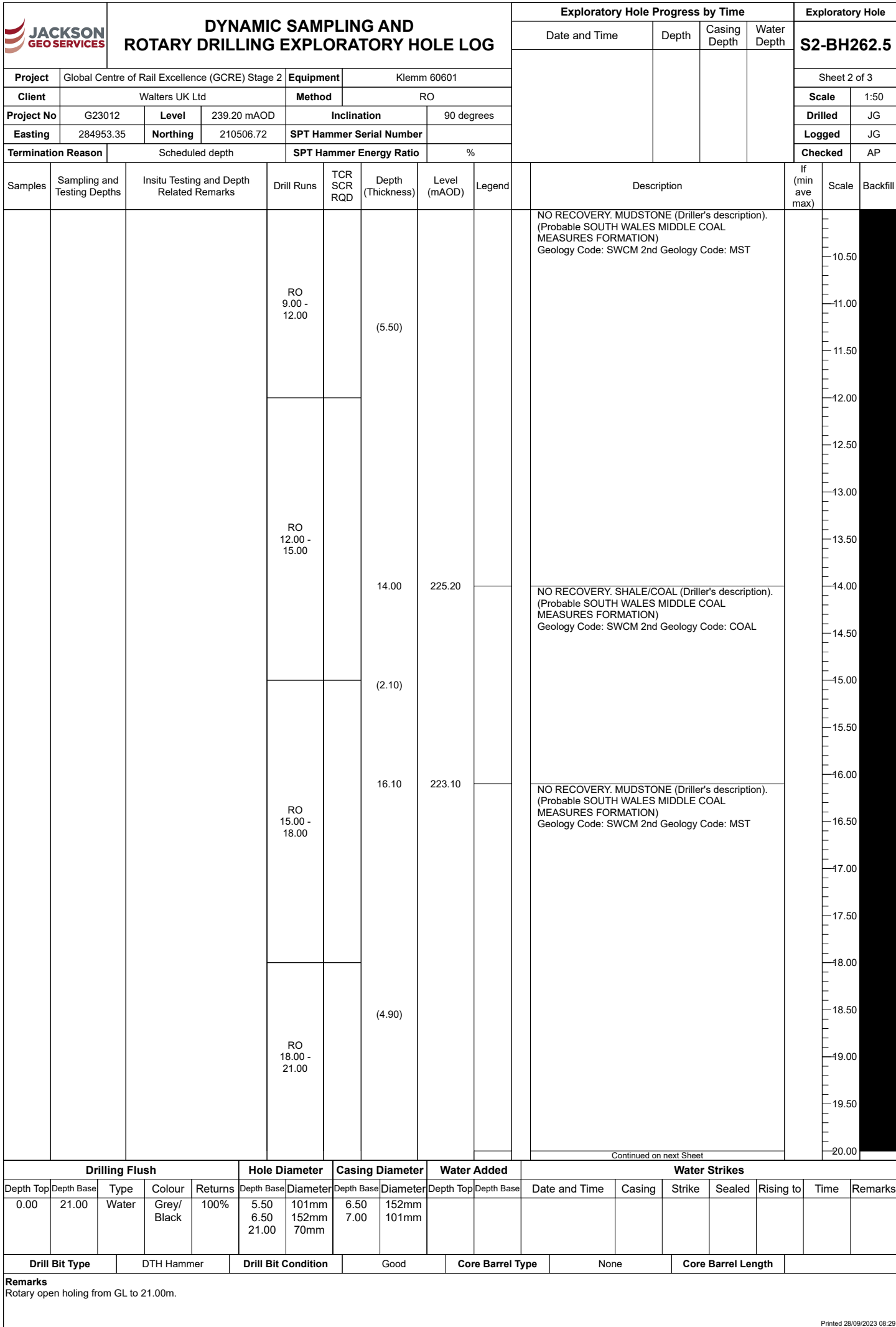
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		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG										Exploratory Hole Progress by Time				Exploratory Hole		
												Date and Time		Depth	Casing Depth	Water Depth	S2-BH262.4	
Project		Global Centre of Rail Excellence (GCRE) Stage 2					Equipment		Klemm 60601					Sheet 3 of 3				
Client		Walters UK Ltd					Method		RO					Scale	1:50			
Project No		G23012		Level		239.14 mAOD		Inclination		90 degrees					Drilled	JG		
Easting		284951.94		Northing		210507.80		SPT Hammer Serial Number							Logged	JG		
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	
									218.14		NO RECOVERY. MUDSTONE (Driller's description). (Probable SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST							
											End of Exploratory Hole at 21.00m							
																	20.50	
																	21.00	
																	21.50	
																	22.00	
																	22.50	
																	23.00	
																	23.50	
																	24.00	
																	24.50	
																	25.00	
																	25.50	
																	26.00	
																	26.50	
																	27.00	
																	27.50	
																	28.00	
																	28.50	
																	29.00	
																	29.50	
																	30.00	
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	21.00	Water	Grey/Black	100%	6.50	152mm	6.50	152mm										
					7.00	101mm	7.00	101mm										
					21.00	70mm												
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length						
Remarks																		
Rotary open holing from GL to 21.00m.																		

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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-BH263.1	
												25/04/2023 08:00 25/04/2023 11:00		0.00 21.00	8.50	Dry		
												Project		Global Centre of Rail Excellence (GCRE) Stage 2				
Client		Walters UK Ltd			Method		RO			Sheet 1 of 3								
Project No		G23012		Level		239.78 mAOD		Inclination		90 degrees		Scale		1:50				
Easting		285054.22		Northing		210458.98		SPT Hammer Serial Number				Drilled		JG				
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	
						RO 0.00 - 1.50		0.00			NO RECOVERY. Fill (Driller's description). (MADE GROUND) Geology Code: MGR					0.50		
						RO 1.50 - 3.00		(4.00)								1.00		
						RO 3.00 - 4.50		4.00	235.78							1.50		
						RO 4.50 - 6.00		(3.50)			NO RECOVERY. CLAY (Driller's description). (Probable weathered SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: CL					2.00		
						RO 6.00 - 7.50		7.50	232.28							2.50		
						RO 7.50 - 8.50										3.00		
						RO 8.50 - 9.00										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	21.00	Water	Grey/Black	100%	8.00	101mm	8.00	101mm										
					8.50	152mm	8.50	152mm										
					21.00	70mm												
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length					
Remarks																		
Rotary open holing from GL to 21.00m.																		
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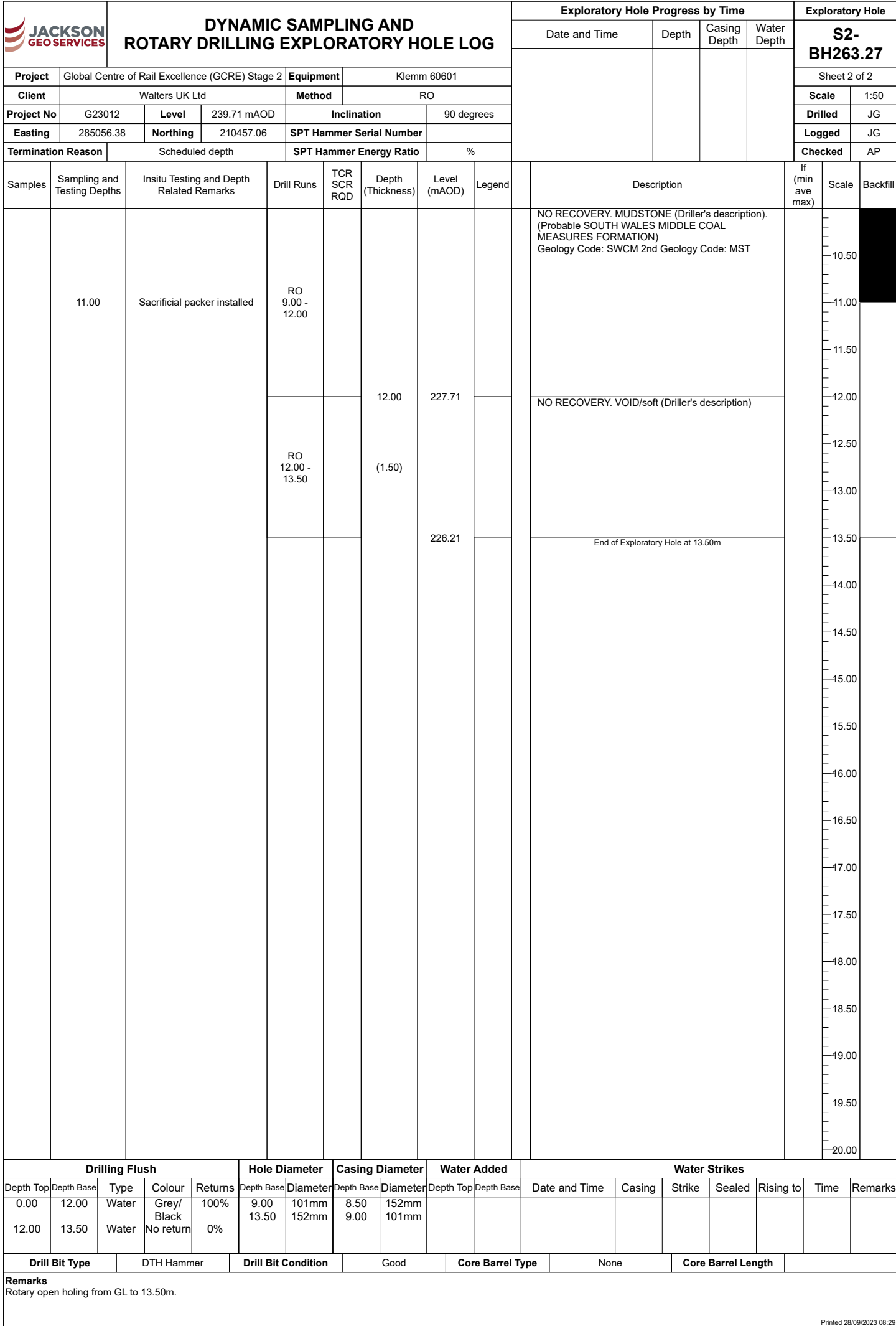
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		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG										Exploratory Hole Progress by Time				Exploratory Hole		
												Date and Time		Depth	Casing Depth	Water Depth	S2-BH263.2	
												25/04/2023 14:30 25/04/2023 16:30		0.00 13.50	8.50	Dry		
												25/04/2023 14:30 25/04/2023 16:30		0.00 13.50	8.50	Dry		
Project		Global Centre of Rail Excellence (GCRE) Stage 2				Equipment		Klemm 60601				Sheet 1 of 2						
Client		Walters UK Ltd				Method		RO				Scale 1:50						
Project No		G23012		Level		239.79 mAOD		Inclination		90 degrees		Drilled JG						
Easting		285054.98		Northing		210458.38		SPT Hammer Serial Number				Logged JG						
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			NO RECOVERY. Fill (Driller's description). (MADE GROUND) Geology Code: MGR							
						RO 0.00 - 1.50								0.50				
														1.00				
														1.50				
						RO 1.50 - 3.00		(4.00)						2.00				
														2.50				
														3.00				
						RO 3.00 - 4.50								3.50				
								4.00	235.79		NO RECOVERY. CLAY (Driller's description). (Probable weathered SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: CL			4.00				
						RO 4.50 - 6.00								4.50				
														5.00				
						RO 6.00 - 7.50		(3.50)						5.50				
														6.00				
						RO 7.50 - 8.50								6.50				
								7.50	232.29		NO RECOVERY. MUDSTONE (Driller's description). (Probable SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST			7.00				
						RO 8.50 - 9.00								7.50				
	8.50	Bentonite seal injected, 1.00m of 152mm casing pulled back, 101mm casing added to 8.00m.												8.00				
														8.50				
														9.00				
								(4.50)						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	12.00	Water	Grey/Black	100%	8.00	101mm	8.00	152mm										
12.00	13.50	Water	No return	0%	8.50	152mm	8.50	101mm										
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length					
Remarks Rotary open holing from GL to 13.50m.																		
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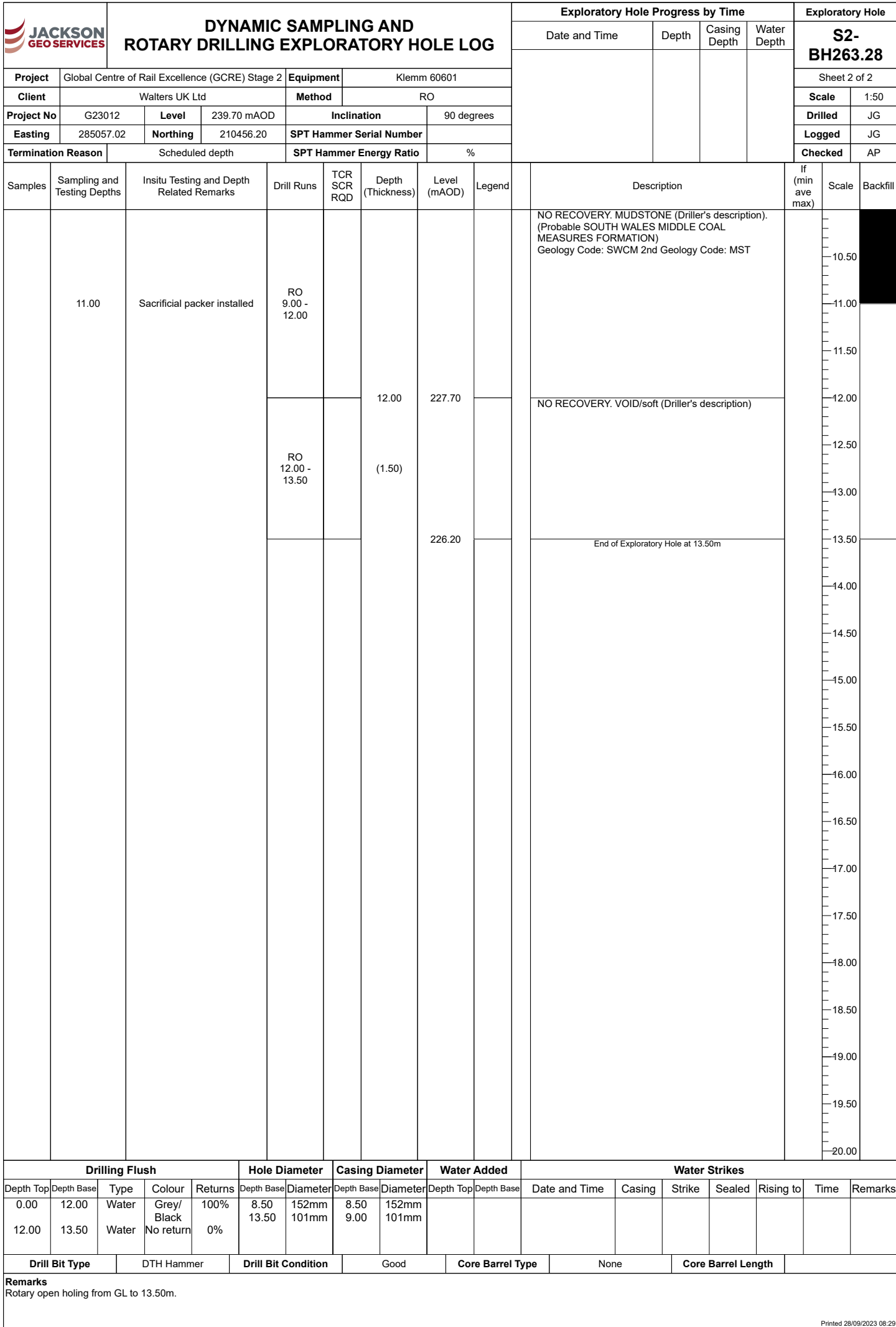
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JACKSON GEO SERVICES		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	S2- BH263.26				
								26/04/2023 08:00 26/04/2023 10:00		0.00 13.50	9.00	Dry					
Project	Global Centre of Rail Excellence (GCRE) Stage 2				Equipment	Klemm 60601			Sheet 1 of 2								
Client	Walters UK Ltd				Method	RO			Scale	1:50							
Project No	G23012		Level	239.76 mAOD		Inclination	90 degrees		Drilled	JG							
Easting	285055.67		Northing	210457.99		SPT Hammer Serial Number			Logged	JG							
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					
				RO 0.00 - 1.50		0.00			NO RECOVERY. Fill (Driller's description). (MADE GROUND) Geology Code: MGR								
				RO 1.50 - 3.00		(4.00)											
				RO 3.00 - 4.50		4.00	235.76										
				RO 4.50 - 6.00		(3.50)			NO RECOVERY. CLAY (Driller's description). (Probable weathered SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: CL								
				RO 6.00 - 7.50		7.50	232.26										
				RO 7.50 - 8.50					NO RECOVERY. MUDSTONE (Driller's description). (Probable SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST								
	8.50	Bentonite seal injected, 1.00m of 152mm casing pulled back, 101mm casing added to 9.00m.		RO 8.50 - 9.00													
						(4.50)											
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	12.00	Water	Grey/Black	100%	8.50	152mm	8.50	152mm									
12.00	13.50	Water	No return	0%	13.50	101mm	9.00	101mm									
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length					
Remarks																	
Rotary open holing from GL to 13.50m.																	
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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- BH263.27	
												26/04/2023 10:00 26/04/2023 12:00		0.00 13.50	9.00	Dry		
Project		Global Centre of Rail Excellence (GCRE) Stage 2				Equipment		Klemm 60601				Sheet 1 of 2						
Client		Walters UK Ltd				Method		RO				Scale	1:50					
Project No		G23012		Level		239.71 mAOD		Inclination		90 degrees		Drilled	JG					
Easting		285056.38		Northing		210457.06		SPT Hammer Serial Number				Logged	JG					
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				
						RO 0.00 - 1.50		0.00			NO RECOVERY. Fill (Driller's description). (MADE GROUND) Geology Code: MGR							
													0.50					
													1.00					
													1.50					
						RO 1.50 - 3.00		(4.00)					2.00					
													2.50					
													3.00					
													3.50					
						RO 3.00 - 4.50		4.00	235.71		NO RECOVERY. CLAY (Driller's description). (Probable weathered SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: CL		4.00					
													4.50					
													5.00					
						RO 4.50 - 6.00		(3.50)					5.50					
													6.00					
													6.50					
						RO 6.00 - 7.50							7.00					
													7.50					
													8.00					
						RO 7.50 - 8.50		7.50	232.21		NO RECOVERY. MUDSTONE (Driller's description). (Probable SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST		8.50					
													9.00					
						RO 8.50 - 9.00							9.50					
													10.00					
								(4.50)			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	12.00	Water	Grey/Black	100%	9.00	101mm	8.50	152mm										
12.00	13.50	Water	No return	0%	13.50	152mm	9.00	101mm										
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length					
Remarks																		
Rotary open holing from GL to 13.50m.																		
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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-BH263.31				
								28/04/2023 08:00 28/04/2023 10:00		0.00 20.00	13.50	Dry					
								Sheet 1 of 2									
Project	Global Centre of Rail Excellence (GCRE) Stage 2			Equipment	Klemm 60601							Scale	1:50				
Client	Walters UK Ltd			Method	RO							Drilled	JG				
Project No	G23012	Level	239.79 mAOD	Inclination		90 degrees						Logged	JG				
Easting	285019.89	Northing	210422.02	SPT Hammer Serial Number								Checked	AP				
Termination Reason		Scheduled depth		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				
				RO 0.00 - 1.50		0.00			NO RECOVERY. Fill (Driller's Description) (MADE GROUND) Geology Code: MGR								
				RO 1.50 - 3.00							0.50						
				RO 3.00 - 4.50							1.00						
				RO 4.50 - 6.00		(10.00)					1.50						
				RO 6.00 - 7.50							2.00						
				RO 7.50 - 9.00							2.50						
				RO 9.00 - 10.50							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	229.79		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	20.00	Water	Grey/Black	100%	12.50	152mm	12.50	152mm									
					13.00	101mm	13.00	101mm									
					20.00	70mm											
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length					
Remarks Rotary open holing from GL to 20.00m.																	
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		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time 28/04/2023 10:00 28/04/2023 12:00		Depth 0.00 20.00	Casing Depth 13.00	Water Depth Dry	S2- BH263.32				
Project		Global Centre of Rail Excellence (GCRE) Stage 2		Equipment		Klemm 60601				Sheet 1 of 2							
Client		Walters UK Ltd		Method		RO				Scale 1:50							
Project No		G23012		Level		239.80 mAOD		Inclination		90 degrees							
Easting		285020.47		Northing		210421.35		SPT Hammer Serial Number									
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				
				RO 0.00 - 1.50		0.00			NO RECOVERY. Fill (Driller's Description) (MADE GROUND) Geology Code: MGR								
				RO 1.50 - 3.00													
				RO 3.00 - 4.50													
				RO 4.50 - 6.00		(10.00)											
				RO 6.00 - 7.50													
				RO 7.50 - 9.00													
				RO 9.00 - 10.50													
						10.00	229.80										
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
					12.50	152mm	12.50	152mm									
					13.00	101mm	13.00	101mm									
					20.00	70mm											
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length					
Remarks Rotary open holing from GL to 20.00m.																	

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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- BH263.33				
										28/04/2023 12:00 28/04/2023 14:00		0.00 20.00	13.00	Dry					
Project		Global Centre of Rail Excellence (GCRE) Stage 2				Equipment		Klemm 60601				Sheet 1 of 2							
Client		Walters UK Ltd				Method		RO				Scale		1:50					
Project No		G23012		Level		239.81 mAOD		Inclination		90 degrees		Drilled		JG					
Easting		285019.04		Northing		210422.69		SPT Hammer Serial Number				Logged		JG					
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		
						RO 0.00 - 1.50		0.00			NO RECOVERY. Fill (Driller's Description) (MADE GROUND) Geology Code: MGR								
																	0.50		
																	1.00		
																	1.50		
						RO 1.50 - 3.00											2.00		
																	2.50		
																	3.00		
																	3.50		
						RO 3.00 - 4.50							4.00						
													4.50						
													5.00						
						RO 4.50 - 6.00		(10.00)					5.50						
													6.00						
													6.50						
						RO 6.00 - 7.50							7.00						
													7.50						
													8.00						
						RO 7.50 - 9.00							8.50						
													9.00						
													9.50						
						RO 9.00 - 10.50							10.00						
								10.00	229.81		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	20.00	Water	Grey/Black	100%	12.50	152mm	12.50	152mm											
					13.00	101mm	13.00	101mm											
					20.00	70mm													
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length						
Remarks																			
Rotary open holing from GL to 20.00m.																			
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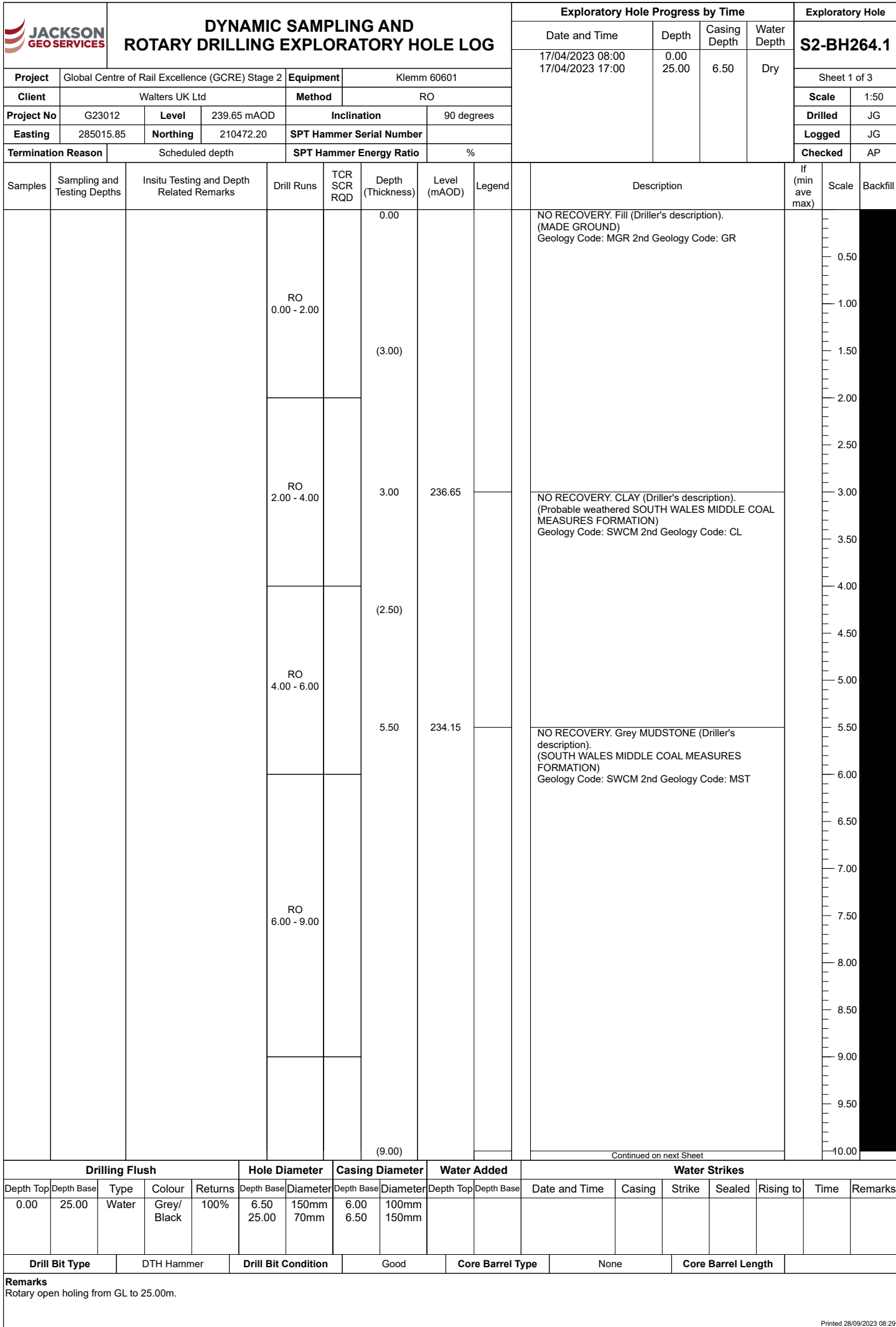
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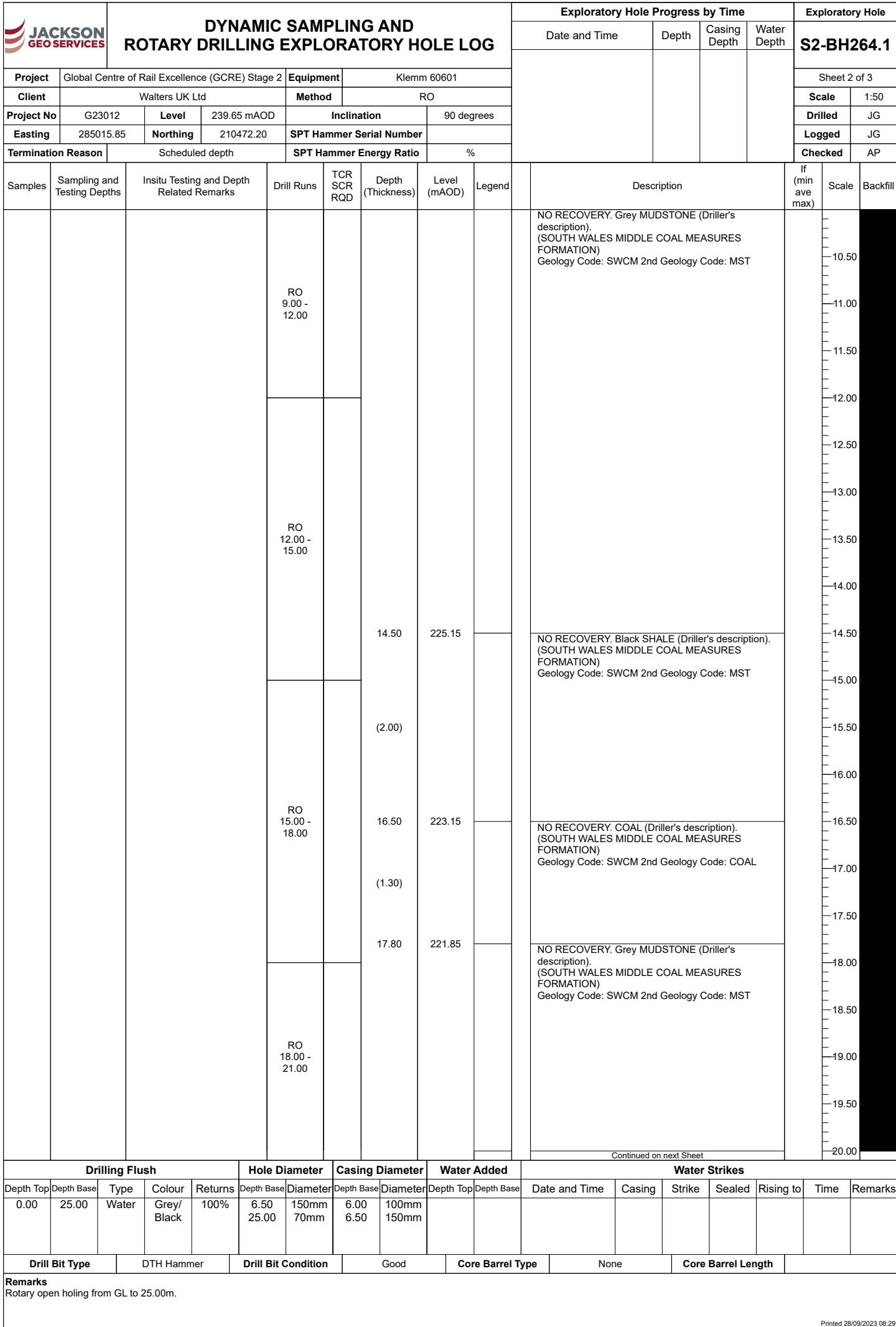
		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time 28/04/2023 14:00 28/04/2023 16:00		Depth 0.00 20.00	Casing Depth 13.00	Water Depth Dry	S2- BH263.34				
Project		Global Centre of Rail Excellence (GCRE) Stage 2		Equipment		Klemm 60601				Sheet 1 of 2							
Client		Walters UK Ltd		Method		RO				Scale 1:50							
Project No		G23012		Level		239.78 mAOD		Inclination		90 degrees							
Easting		285018.18		Northing		210423.44		SPT Hammer Serial Number		JG							
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 - 20.00	Bentonite seal injected at 12.50m. 1.00m of 152mm casing removed and 101mm casing added to 13.00m.		RO 0.00 - 1.50		0.00			NO RECOVERY. Fill (Driller's Description) (MADE GROUND) Geology Code: MGR								
				RO 1.50 - 3.00													
				RO 3.00 - 4.50													
				RO 4.50 - 6.00		(10.00)											
				RO 6.00 - 7.50													
				RO 7.50 - 9.00													
				RO 9.00 - 10.50													
						10.00	229.78		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	20.00	Water	Grey/Black	100%	12.50	152mm	12.50	152mm									
					13.00	101mm	13.00	101mm									
					20.00	70mm											
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length					
Remarks Rotary open holing from GL to 20.00m.																	
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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-BH263.35				
								28/04/2023 16:00 28/04/2023 18:00		0.00 20.00	13.00	Dry					
								Sheet 1 of 2									
Project	Global Centre of Rail Excellence (GCRE) Stage 2			Equipment	Klemm 60601							Scale	1:50				
Client	Walters UK Ltd			Method	RO							Drilled	JG				
Project No	G23012	Level	239.81 mAOD	Inclination		90 degrees						Logged	JG				
Easting	285021.26	Northing	210420.63	SPT Hammer Serial Number								Checked	AP				
Termination Reason		Scheduled depth		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				
				RO 0.00 - 1.50		0.00			NO RECOVERY. Fill (Driller's Description) (MADE GROUND) Geology Code: MGR								
				RO 1.50 - 3.00							0.50						
				RO 3.00 - 4.50							1.00						
				RO 4.50 - 6.00							1.50						
				RO 6.00 - 7.50							2.00						
				RO 7.50 - 9.00							2.50						
				RO 9.00 - 10.50							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								
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	20.00	Water	Grey/Black	100%	12.50	152mm	12.50	152mm									
					13.00	101mm	13.00	101mm									
					20.00	70mm											
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length					
Remarks Rotary open holing from GL to 20.00m.																	

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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- BH264.10	
												19/04/2023 13:00 19/04/2023 14:30		0.00 23.00	0.00 9.00	Dry		
Project		Global Centre of Rail Excellence (GCRE) Stage 2				Equipment		Klemm 60601				Sheet 1 of 3						
Client		Walters UK Ltd				Method		RO				Scale	1:50					
Project No		G23012		Level		239.75 mAOD		Inclination		90 degrees		Drilled	JG					
Easting		285020.18		Northing		210464.03		SPT Hammer Serial Number				Logged	JG					
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			
						RO 0.00 - 1.50		0.00			NO RECOVERY. Fill (Driller's description). (MADE GROUND) Geology Code: MGR							
								(3.00)										
						RO 1.50 - 3.00												
								3.00	236.75		NO RECOVERY. CLAY (Driller's description). (Probable weathered SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: CL							
						RO 3.00 - 4.50												
								(4.50)										
						RO 4.50 - 6.00												
						RO 6.00 - 7.50												
								7.50	232.25		NO RECOVERY. MUDSTONE (Driller's description). (Probable SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST							
						RO 7.50 - 8.50												
						RO 8.50 - 9.00												
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	21.00	Water	Grey/Black	100%	8.50	152mm	8.50	152mm										
21.00	23.00	Water	No return	0%	9.00	101mm	9.00	101mm										
					23.00	70mm												
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length					
Remarks Rotary open holing from GL to 23.00m.																		
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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-BH264.10				
Project		Global Centre of Rail Excellence (GCRE) Stage 2				Equipment		Klemm 60601				Sheet 2 of 3					
Client		Walters UK Ltd				Method		RO				Scale	1:50				
Project No		G23012		Level		239.75 mAOD		Inclination		90 degrees		Drilled	JG				
Easting		285020.18		Northing		210464.03		SPT Hammer Serial Number				Logged	JG				
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			
	15.00	Sacrificial packer installed				RO 9.00 - 12.00		(7.50)			NO RECOVERY. MUDSTONE (Driller's description). (Probable SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST						
						RO 12.00 - 15.00			15.00	224.75							
						RO 15.00 - 18.00		(1.50)	16.50	223.25	NO RECOVERY. SHALE (Driller's description). (Probable SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM						
								(1.30)			NO RECOVERY. COAL (Driller's description). (Probable SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: COAL						
								17.80	221.95								
						RO 18.00 - 21.00		(3.20)			NO RECOVERY. MUDSTONE (Driller's description). (Probable SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST						
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	21.00	Water	Grey/Black	100%	8.50	152mm	8.50	152mm									
21.00	23.00	Water	No return	0%	9.00	101mm	9.00	101mm									
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length				
Remarks Rotary open holing from GL to 23.00m.																	
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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-BH264.11				
								21/04/2023 08:00 21/04/2023 10:20		0.00 24.50	9.00	Dry					
Project	Global Centre of Rail Excellence (GCRE) Stage 2			Equipment	Klemm 60601					Sheet 1 of 3							
Client	Walters UK Ltd			Method	RO					Scale	1:50						
Project No	G23012		Level	239.73 mAOD		Inclination	90 degrees				Drilled	JG					
Easting	285022.02		Northing	210471.24		SPT Hammer Serial Number					Logged	JG					
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				
	8.50	Bentonite seal injected, 1.00m of 152mm casing pulled back.		RO 0.00 - 1.50		0.00			NO RECOVERY. 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						
													(3.00)				
				RO 1.50 - 3.00		3.00	236.73	NO RECOVERY. CLAY (Driller's description). (Probable weathered SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: CL									
				RO 3.00 - 4.50					4.50 - 6.00				(4.50)				
						6.00 - 7.50	7.50	232.23						NO RECOVERY. MUDSTONE (Driller's description). (Probable SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST			
				RO 6.00 - 7.50					7.50 - 8.50				RO 8.50 - 9.00				
				RO 7.50 - 8.50													
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	22.00	Water	Grey/Black	100%	8.50	152mm	8.50	152mm									
22.00	24.50	Water	No return	0%	9.00	101mm	9.00	101mm									
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length					
Remarks Rotary open holing from GL to 24.50m.																	
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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-BH264.11				
Project		Global Centre of Rail Excellence (GCRE) Stage 2				Equipment		Klemm 60601				Sheet 2 of 3					
Client		Walters UK Ltd				Method		RO				Scale 1:50					
Project No		G23012		Level		239.73 mAOD		Inclination		90 degrees		Drilled JG					
Easting		285022.02		Northing		210471.24		SPT Hammer Serial Number				Logged JG					
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		
	15.00	Sacrificial packer installed				RO 9.00 - 12.00		(7.50)			NO RECOVERY. MUDSTONE (Driller's description). (Probable SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST		10.50				
										11.00							
										11.50							
										12.00							
					RO 12.00 - 15.00							12.50					
													13.00				
													13.50				
													14.00				
													14.50				
													15.00				
											NO RECOVERY. SHALE (Driller's description). (Probable SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM		15.50				
													16.00				
													16.50				
											NO RECOVERY. COAL (Driller's description). (Probable SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: COAL		17.00				
													17.50				
													18.00				
											NO RECOVERY. MUDSTONE (Driller's description). (Probable SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST		18.50				
													19.00				
													19.50				
													20.00				
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	22.00	Water	Grey/Black	100%	8.50	152mm	8.50	152mm									
22.00	24.50	Water	No return	0%	9.00	101mm	9.00	101mm									
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length				
Remarks Rotary open holing from GL to 24.50m.																	
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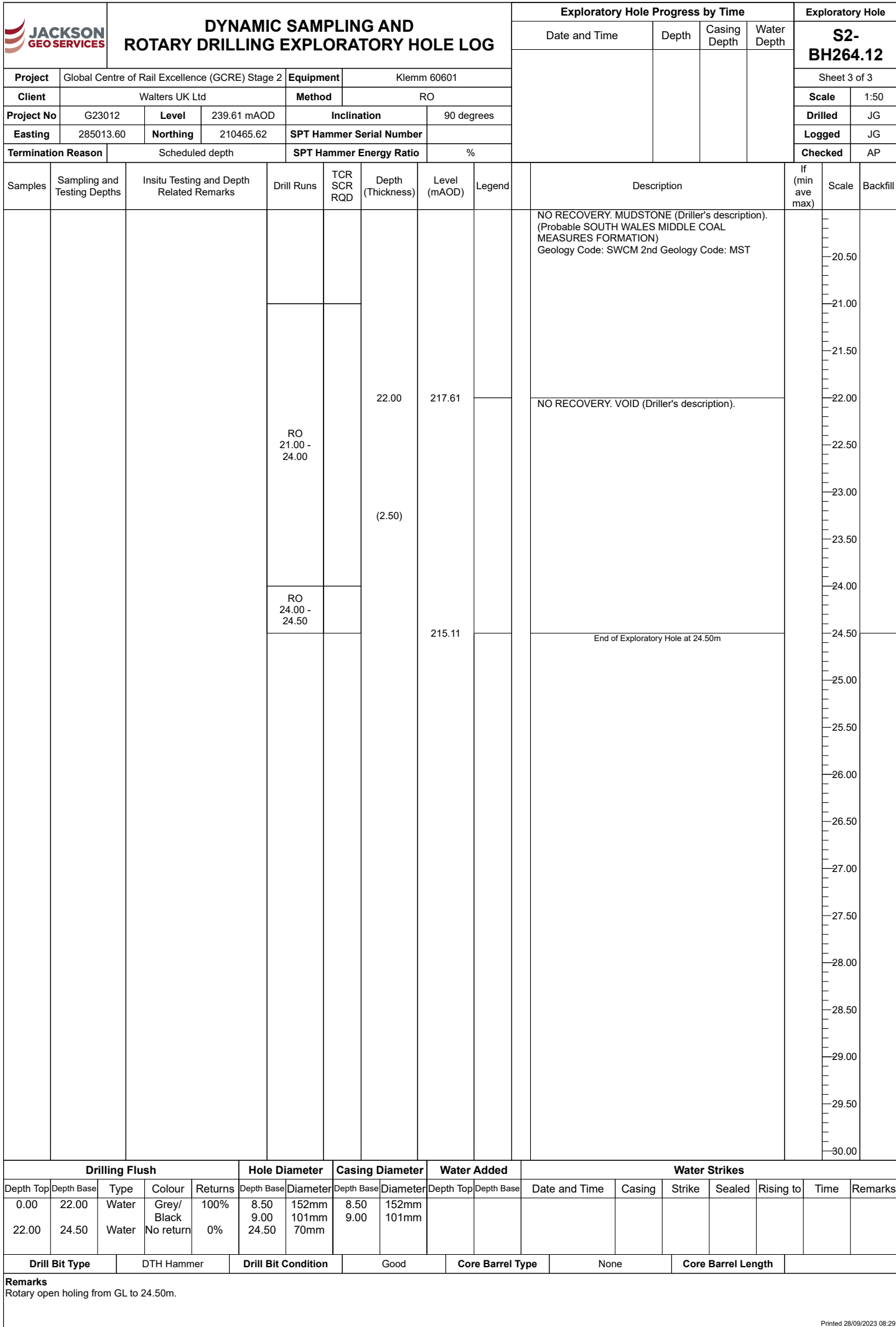


Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	S2-BH264.12 Sheet 1 of 3 Scale 1:50 Drilled JG Logged JG Checked AP	
21/04/2023 10:20 21/04/2023 12:20	0.00 24.50	9.00	Dry		

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	22.00	Water	Grey/ Black	100%	8.50	152mm	8.50	152mm									
22.00	24.50	Water	No return	0%	9.00	101mm	9.00	101mm									
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None			Core Barrel Length			

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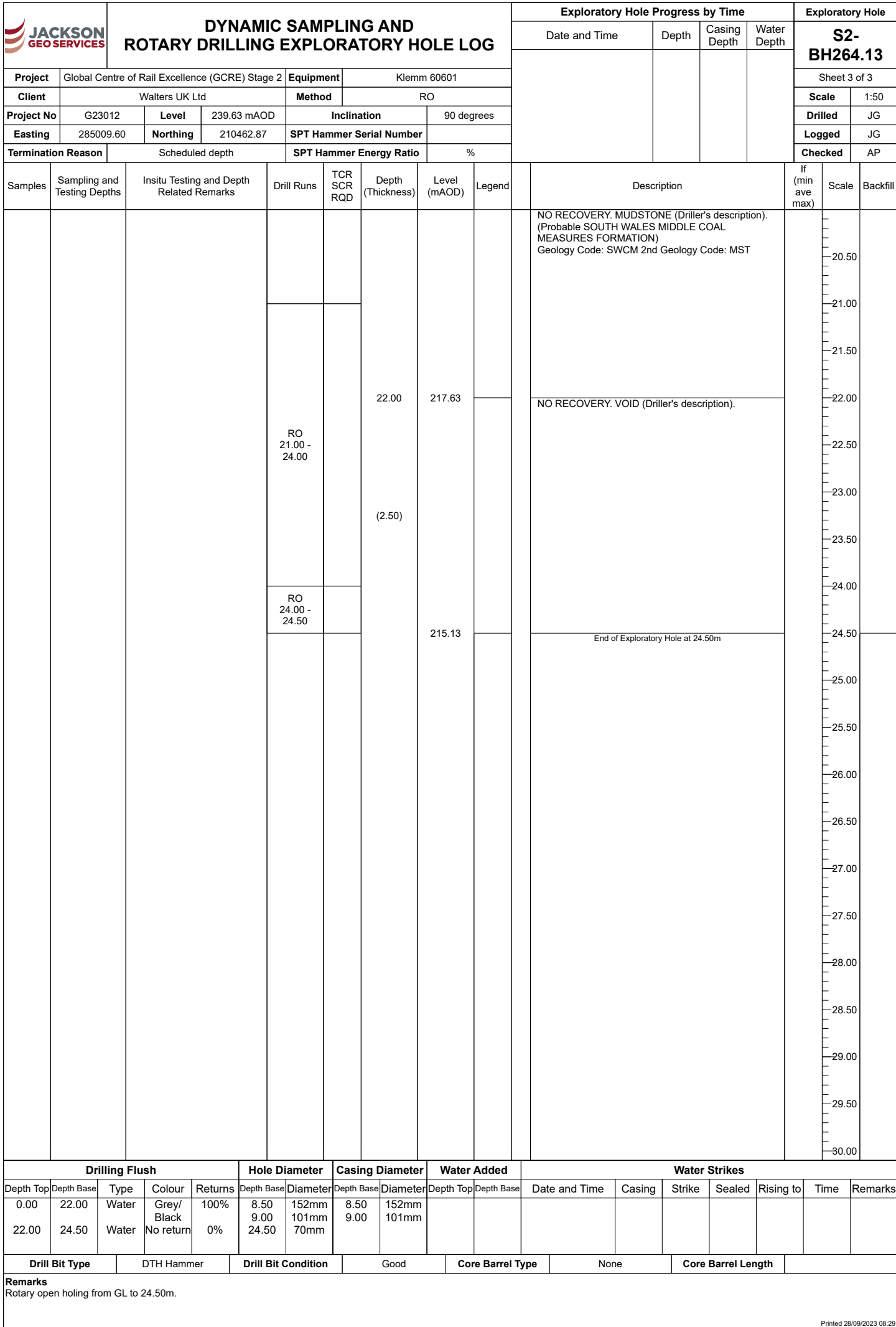


Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	S2-BH264.13	
14/04/2023 14:20 21/04/2023 12:20	24.50 0.00	9.00	Dry		
				Sheet 1 of 3	
				Scale	1:50
				Drilled	JG
				Logged	JG
				Checked	AP

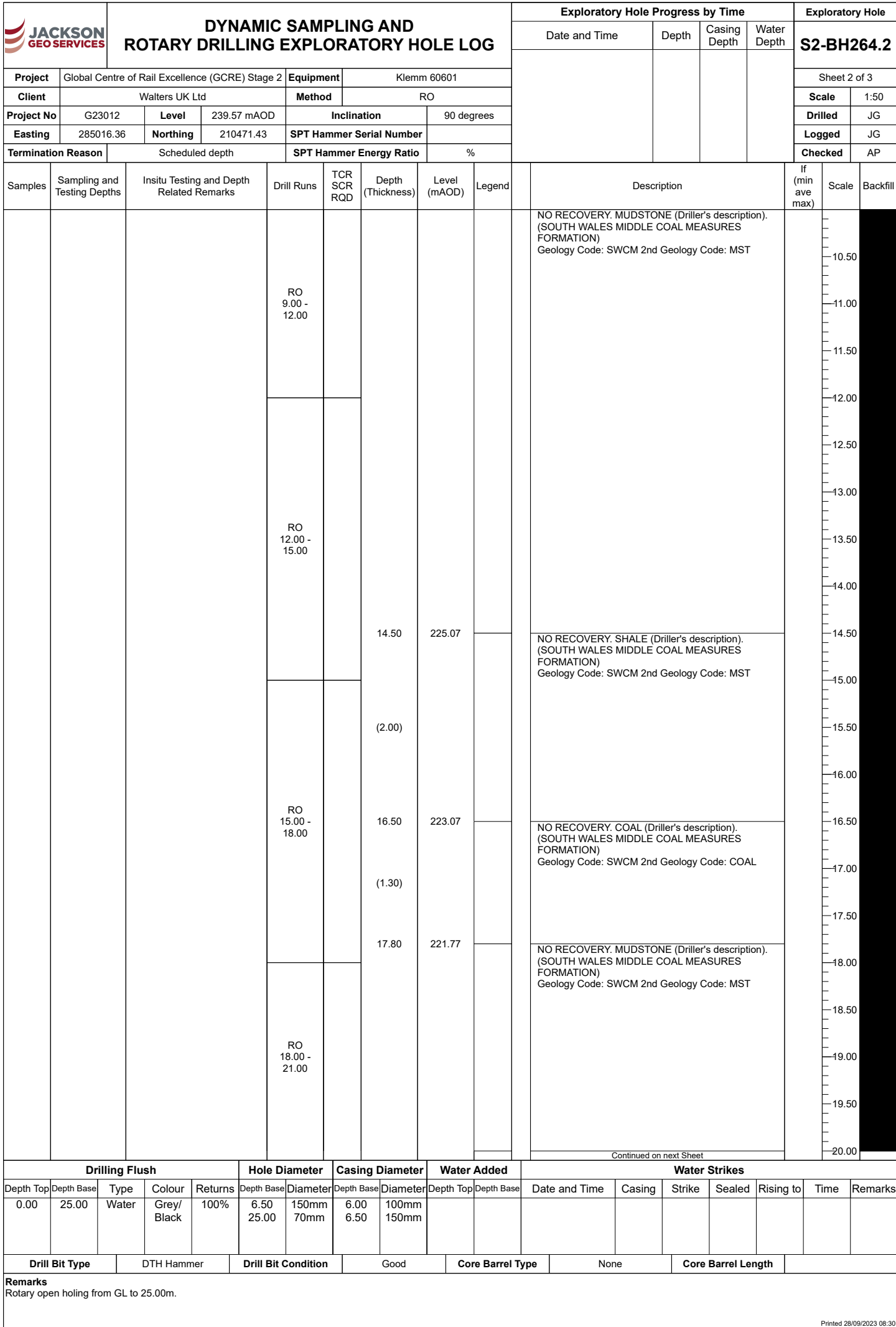
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	22.00	Water	Grey/ Black	100%	8.50	152mm	8.50	152mm									
22.00	24.50	Water	No return	0%	9.00	101mm	9.00	101mm									
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None			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-BH264.13				
Project		Global Centre of Rail Excellence (GCRE) Stage 2				Equipment		Klemm 60601		Sheet 2 of 3		Scale		1:50			
Client		Walters UK Ltd				Method		RO				Drilled		JG			
Project No		G23012		Level		239.63 mAOD		Inclination				90 degrees		Logged		JG	
Easting		285009.60		Northing		210462.87		SPT Hammer Serial Number						Checked		AP	
Termination Reason		Scheduled depth				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		
	15.00	Sacrificial packer installed				RO 9.00 - 12.00		(7.50)			NO RECOVERY. MUDSTONE (Driller's description). (Probable SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST		10.50				
										11.00							
										11.50							
										12.00							
					RO 12.00 - 15.00							12.50					
													13.00				
													13.50				
													14.00				
													14.50				
													15.00				
											NO RECOVERY. SHALE (Driller's description). (Probable SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM		15.50				
													16.00				
													16.50				
											NO RECOVERY. COAL (Driller's description). (Probable SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: COAL		17.00				
													17.50				
													18.00				
											NO RECOVERY. MUDSTONE (Driller's description). (Probable SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST		18.50				
													19.00				
													19.50				
													20.00				
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	22.00	Water	Grey/Black	100%	8.50	152mm	8.50	152mm									
22.00	24.50	Water	No return	0%	9.00	101mm	9.00	101mm									
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length				
Remarks Rotary open holing from GL to 24.50m.																	
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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-BH264.2				
Project		Global Centre of Rail Excellence (GCRE) Stage 2				Equipment		Klemm 60601		Sheet 3 of 3							
Client		Walters UK Ltd				Method		RO		Scale	1:50						
Project No		G23012		Level		239.57 mAOD		Inclination		90 degrees							
Easting		285016.36		Northing		210471.43		SPT Hammer Serial Number		JG							
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			
								(7.20)			NO RECOVERY. MUDSTONE (Driller's description). (SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST						
						RO 21.00 - 24.00							20.50				
													21.00				
													21.50				
													22.00				
													22.50				
													23.00				
													23.50				
													24.00				
						RO 24.00 - 25.00							24.50				
									214.57		End of Exploratory Hole at 25.00m		25.00				
													25.50				
													26.00				
													26.50				
													27.00				
													27.50				
													28.00				
													28.50				
													29.00				
													29.50				
													30.00				
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	25.00	Water	Grey/Black	100%	6.50	150mm	6.00	100mm									
					25.00	70mm	6.50	150mm									
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length					
Remarks Rotary open holing from GL to 25.00m.																	
Printed 28/09/2023 08:30																	

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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-BH264.3				
Project		Global Centre of Rail Excellence (GCRE) Stage 2				Equipment		Klemm 60601				Sheet 2 of 3					
Client		Walters UK Ltd				Method		RO				Scale 1:50					
Project No		G23012		Level		239.57 mAOD		Inclination				Drilled JG					
Easting		285016.73		Northing		210470.49		SPT Hammer Serial Number				Logged JG					
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		
					RO 9.00 - 12.00			14.50	225.07		NO RECOVERY: MUDSTONE (Driller's description). (SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST		10.50				
					RO 12.00 - 15.00								11.00				
													11.50				
													RO 15.00 - 18.00			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														
	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	25.00	Water	Grey/Black	100%	6.50	150mm	6.50	150mm									
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length					
Remarks Rotary open holing from GL to 25.00m.																	
Printed 28/09/2023 08:30																	

		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	S2-BH264.3				
Project		Global Centre of Rail Excellence (GCRE) Stage 2				Equipment		Klemm 60601				Sheet 3 of 3					
Client		Walters UK Ltd				Method		RO				Scale 1:50					
Project No		G23012		Level		239.57 mAOD		Inclination				Drilled JG					
Easting		285016.73		Northing		210470.49		SPT Hammer Serial Number				Logged JG					
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		
								(7.20)	214.57		NO RECOVERY. MUDSTONE (Driller's description). (SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST		20.50				
						RO 21.00 - 24.00											21.00
													21.50				
													22.00				
													22.50				
													23.00				
													23.50				
													24.00				
													24.50				
						RO 24.00 - 25.00							25.00				
											End of Exploratory Hole at 25.00m		25.50				
													26.00				
													26.50				
													27.00				
													27.50				
													28.00				
													28.50				
													29.00				
													29.50				
													30.00				
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	25.00	Water	Grey/Black	100%	6.50	150mm	6.00	100mm									
					25.00	70mm	6.50	150mm									
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length					
Remarks Rotary open holing from GL to 25.00m.																	
Printed 28/09/2023 08:30																	

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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-BH264.5				
Project		Global Centre of Rail Excellence (GCRE) Stage 2				Equipment		Klemm 60601				Sheet 2 of 3					
Client		Walters UK Ltd				Method		RO				Scale 1:50					
Project No		G23012		Level		239.65 mAOD		Inclination		90 degrees		Drilled JG					
Easting		285017.74		Northing		210468.53		SPT Hammer Serial Number				Logged JG					
Termination Reason		Void encountered				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		
1 EW	11.56	Sacrificial packer installed				RO 9.00 - 12.00					NO RECOVERY: MUDSTONE (Driller's description). (SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST		10.50				
	15.00	Sacrificial packer installed				RO 12.00 - 15.00			14.50	225.15	NO RECOVERY: SHALE (Driller'sdescription). (SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST		11.00				
		Sacrificial packer installed				RO 15.00 - 18.00		(1.50)	16.00	223.65	NO RECOVERY: COAL (Driller's description). (SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: COAL		11.50				
		Sacrificial packer installed				RO 18.00 - 21.00		(4.00)	17.50	222.15	NO RECOVERY: MUDSTONE (Driller's description). (SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST		12.00				
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	23.00	Water	Grey/Black	100%	6.50	150mm	6.50	100mm									
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length					
Remarks Rotary open holing from GL to 23.00m.																	
Printed 28/09/2023 08:30																	

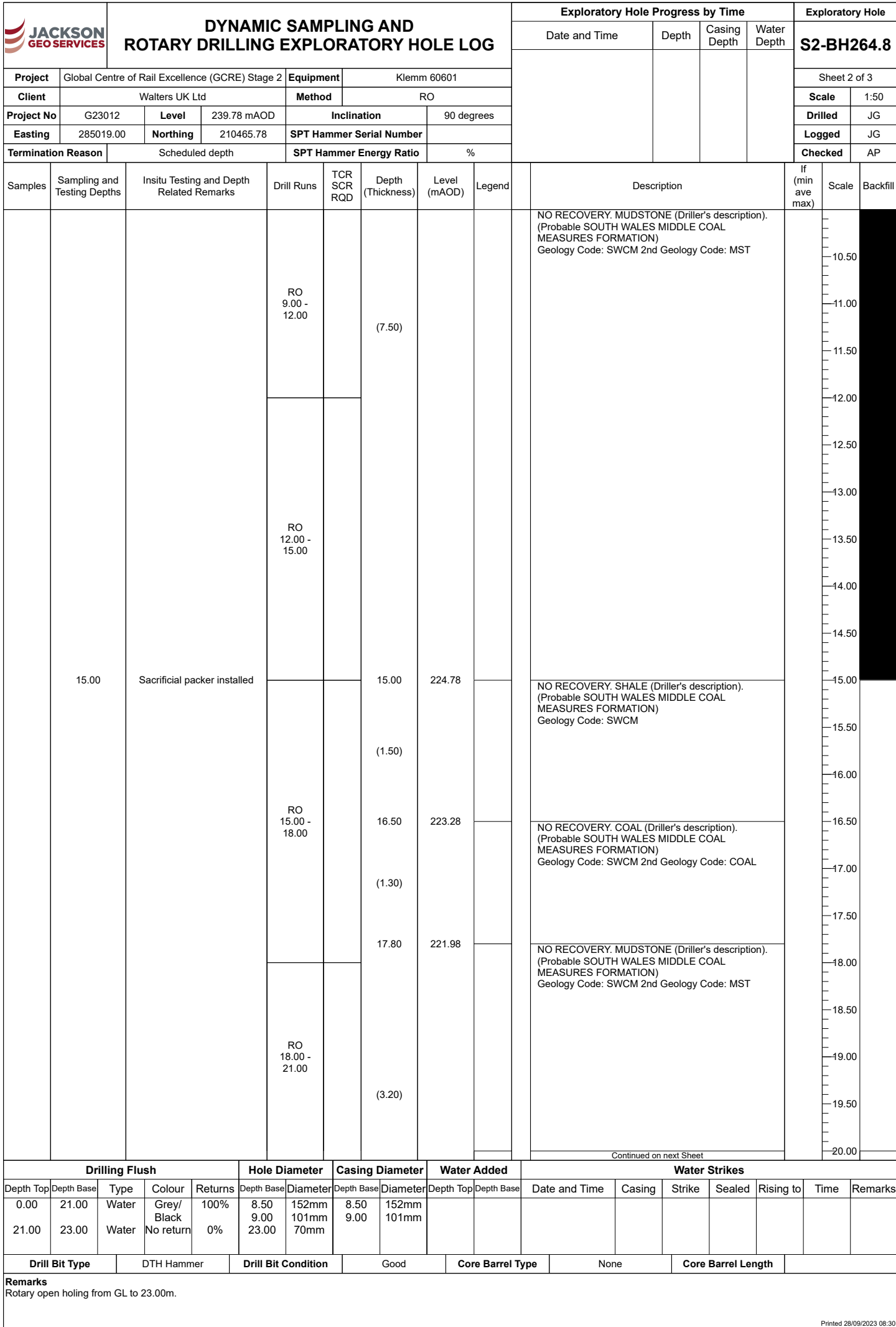
		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	S2-BH264.5				
Project	Global Centre of Rail Excellence (GCRE) Stage 2				Equipment	Klemm 60601				Sheet 3 of 3							
Client	Walters UK Ltd				Method	RO				Scale	1:50						
Project No	G23012		Level	239.65 mAOD		Inclination	90 degrees		Drilled	JG							
Easting	285017.74		Northing	210468.53		SPT Hammer Serial Number			Logged	JG							
Termination Reason	Void encountered				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 21.00 - 23.00		21.50	218.15		NO RECOVERY. MUDSTONE (Driller's description). (SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST								
									NO RECOVERY. VOID (Driller's description). Geology Code: SWCM								
											216.65		End of Exploratory Hole at 23.00m				
													20.50				
													21.00				
													21.50				
													22.00				
													22.50				
													23.00				
													23.50				
													24.00				
													24.50				
													25.00				
													25.50				
													26.00				
													26.50				
													27.00				
													27.50				
													28.00				
													28.50				
													29.00				
													29.50				
													30.00				
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	23.00	Water	Grey/Black	100%	6.50 23.00	150mm 70mm	6.00 6.50	100mm 150mm									
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length					
Remarks Rotary open holing from GL to 23.00m.																	
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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-BH264.7
Project		Global Centre of Rail Excellence (GCRE) Stage 2				Equipment		Klemm 60601				Sheet 3 of 3					
Client		Walters UK Ltd				Method		RO				Scale	1:50				
Project No		G23012		Level		239.76 mAOD		Inclination		90 degrees		Drilled	JG				
Easting		285018.68		Northing		210466.61		SPT Hammer Serial Number				Logged	JG				
Termination Reason		Void encountered				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		
								21.50	218.26		NO RECOVERY. MUDSTONE (Driller's description). (SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST						
											RO 21.00 - 23.00	(1.50)				NO RECOVERY. VOID (Driller's description). Geology Code: SWCM	
																End of Exploratory Hole at 23.00m	
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	23.00	Water	Grey/Black	100%	6.50	150mm	6.00	100mm									
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length					
Remarks Rotary open holing from GL to 23.00m.																	
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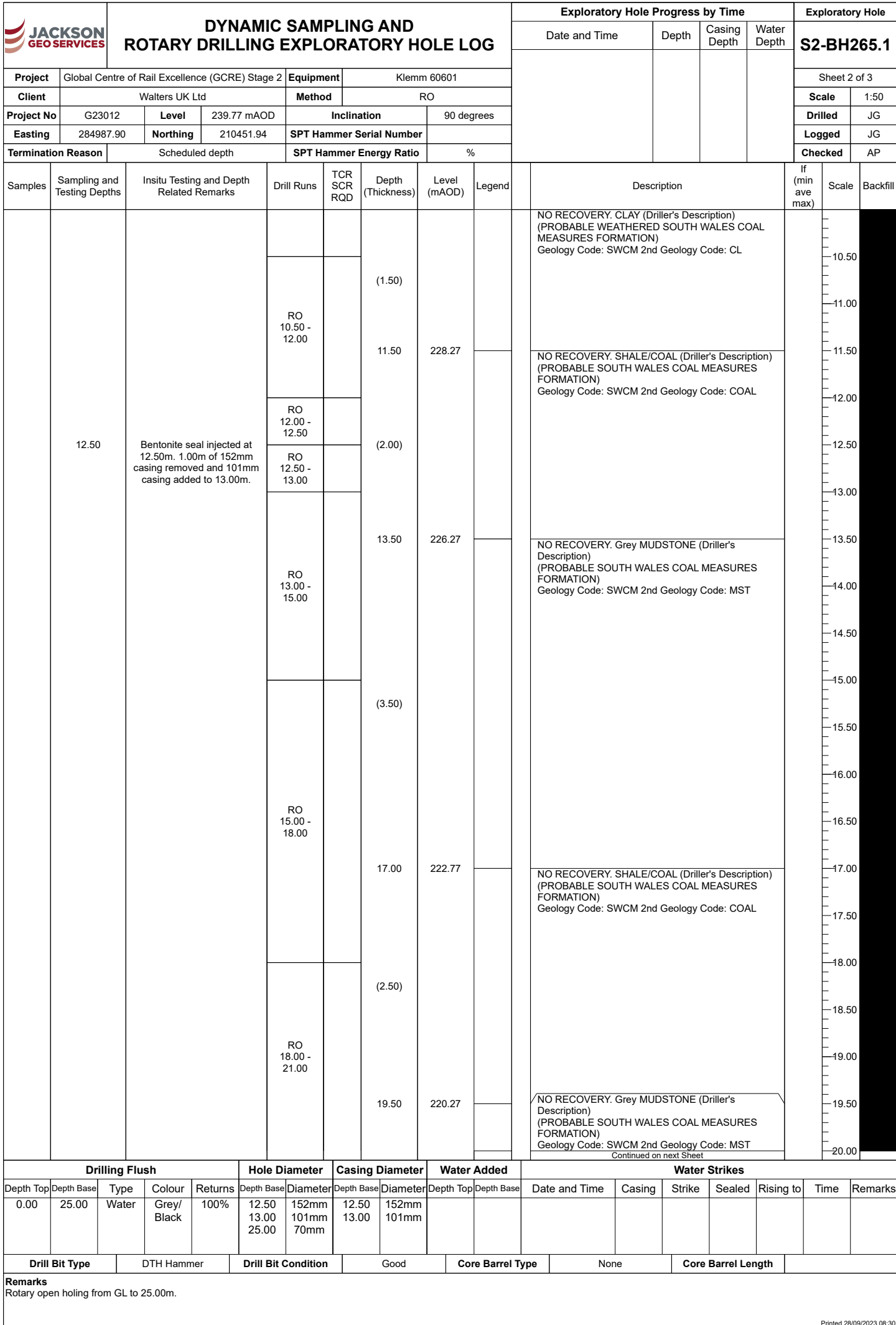


JACKSON GEO SERVICES		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG										Exploratory Hole Progress by Time						Exploratory Hole	
												Date and Time		Depth	Casing Depth	Water Depth	S2-BH264.9		
												19/04/2023 10:30 19/04/2023 12:00		0.00 23.00	0.00 9.00	Dry			
												ProjectGlobal Centre of Rail Excellence (GCRE) Stage 2		EquipmentKlemm 60601					
ClientWalters UK Ltd		MethodRO		Sheet 1 of 3		Scale1:50													
Project NoG23012		Level239.82 mAOD		Inclination90 degrees		DrilledJG													
Easting285019.60		Northing210464.99		SPT Hammer Serial Number		LoggedJG													
Termination Reason		Scheduled depth		SPT Hammer Energy Ratio		%		CheckedAP											
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		0.00			NO RECOVERY. Fill (Driller's description). (MADE GROUND) Geology Code: MGR										
						(3.00)													
				RO 1.50 - 3.00															
						3.00	236.82		NO RECOVERY. CLAY (Driller's description). (Probable weathered SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: CL										
				RO 3.00 - 4.50															
						(4.50)													
				RO 4.50 - 6.00															
						7.50	232.32		NO RECOVERY. MUDSTONE (Driller's description). (Probable SOUTH WALES MIDDLE COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST										
				RO 6.00 - 7.50															
				RO 7.50 - 8.50															
				RO 8.50 - 9.00															
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	21.00	Water	Grey/Black	100%	8.50	152mm	8.50	152mm											
21.00	23.00	Water	No return	0%	9.00	101mm	9.00	101mm											
					23.00	70mm													
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length						
Remarks Rotary open holing from GL to 23.00m.																			
Printed 28/09/2023 08:30																			

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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-BH265.1				
								02/05/2023 08:00 02/05/2023 10:00		0.00 25.00	13.00	Dry					
								Project		Global Centre of Rail Excellence (GCRE) Stage 2		Equipment			Klemm 60601		
Client		Walters UK Ltd		Method		RO		Sheet 1 of 3		Scale		1:50					
Project No		G23012		Level		239.77 mAOD		Inclination		90 degrees		Drilled		JG			
Easting		284987.90		Northing		210451.94		SPT Hammer Serial Number				Logged		JG			
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		
				RO 0.00 - 1.50		0.00			NO RECOVERY. Fill (Driller's Description) (MADE GROUND) Geology Code: MGR								
				RO 1.50 - 3.00										0.50			
				RO 3.00 - 4.50										1.00			
				RO 4.50 - 6.00		(10.00)								1.50			
				RO 6.00 - 7.50										2.00			
				RO 7.50 - 9.00										2.50			
				RO 9.00 - 10.50										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	229.77		Continued on next Sheet				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	25.00	Water	Grey/Black	100%	12.50	152mm	12.50	152mm									
					13.00	101mm	13.00	101mm									
					25.00	70mm											
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length					
Remarks																	
Rotary open holing from GL to 25.00m.																	
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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-BH265.2		
												02/05/2023 10:00 02/05/2023 12:00		0.00 25.00	13.00	Dry			
												Project		Global Centre of Rail Excellence (GCRE) Stage 2					Equipment
Client		Walters UK Ltd			Method		RO		Sheet 1 of 3		Scale		1:50						
Project No		G23012		Level		239.82 mAOD		Inclination		90 degrees		Drilled		JG					
Easting		284987.10		Northing		210451.45		SPT Hammer Serial Number				Logged		JG					
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		
						RO 0.00 - 1.50		0.00			NO RECOVERY. Fill (Driller's Description) (MADE GROUND) Geology Code: MGR								
																	0.50		
																	1.00		
																	1.50		
						RO 1.50 - 3.00											2.00		
																	2.50		
																	3.00		
																	3.50		
						RO 3.00 - 4.50							4.00						
													4.50						
													5.00						
						RO 4.50 - 6.00		(10.00)					5.50						
													6.00						
													6.50						
						RO 6.00 - 7.50							7.00						
													7.50						
													8.00						
						RO 7.50 - 9.00							8.50						
													9.00						
													9.50						
						RO 9.00 - 10.50							10.00						
								10.00	229.82		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	25.00	Water	Grey/Black	100%	12.50	152mm	12.50	152mm											
					13.00	101mm	13.00	101mm											
					25.00	70mm													
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length							
Remarks																			
Rotary open holing from GL to 25.00m.																			
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JACKSON

GEO SERVICES

DYNAMIC SAMPLING AND

ROTARY DRILLING EXPLORATORY HOLE LOG

Project

Global Centre of Rail Excellence (GCRE) Stage 2

Equipment

Klemm 60601

Client

Walters UK Ltd

Method

RO

Project No

G23012

Level

239.82 mAOD

Inclination

90 degrees

Easting

284987.10

Northing

210451.45

SPT Hammer Serial Number

Termination Reason

Scheduled depth

SPT Hammer Energy Ratio

%

Date and Time

Depth

Casing Depth

Water Depth

S2-BH265.2

Sheet 2 of 3

Scale

1:50

Drilled

JG

Logged

JG

Checked

AP

Samples

Sampling and Testing Depths

Insitu Testing and Depth Related Remarks

Drill Runs

TCR SCR RQD

Depth (Thickness)

Level (mAOD)

Legend

12.50

Bentonite seal injected at 12.50m. 1.00m of 152mm casing removed and 101mm casing added to 13.00m.

RO 10.50 - 12.00

RO 12.00 - 12.50

RO 12.50 - 13.00

RO 13.00 - 15.00

RO 15.00 - 18.00

RO 18.00 - 21.00

(1.50)

11.50

(2.00)

13.50

(3.50)

17.00

(2.50)

19.50

228.32

226.32

222.82

220.32

NO RECOVERY. CLAY (Driller's Description) (PROBABLE WEATHERED SOUTH WALES COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: CL

NO RECOVERY. SHALE/COAL (Driller's Description) (PROBABLE SOUTH WALES COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: COAL

NO RECOVERY. Grey MUDSTONE (Driller's Description) (PROBABLE SOUTH WALES COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST

NO RECOVERY. SHALE/COAL (Driller's Description) (PROBABLE SOUTH WALES COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: COAL

NO RECOVERY. Grey MUDSTONE (Driller's Description) (PROBABLE SOUTH WALES COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST

If (min ave max)

Scale

Backfill

10.50

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

25.00

Water

Grey/Black

100%

12.50

152mm

12.50

152mm

Drill Bit Type

DTH Hammer

Drill Bit Condition

Good

Core Barrel Type

None

Core Barrel Length

Remarks

Rotary open holing from GL to 25.00m.

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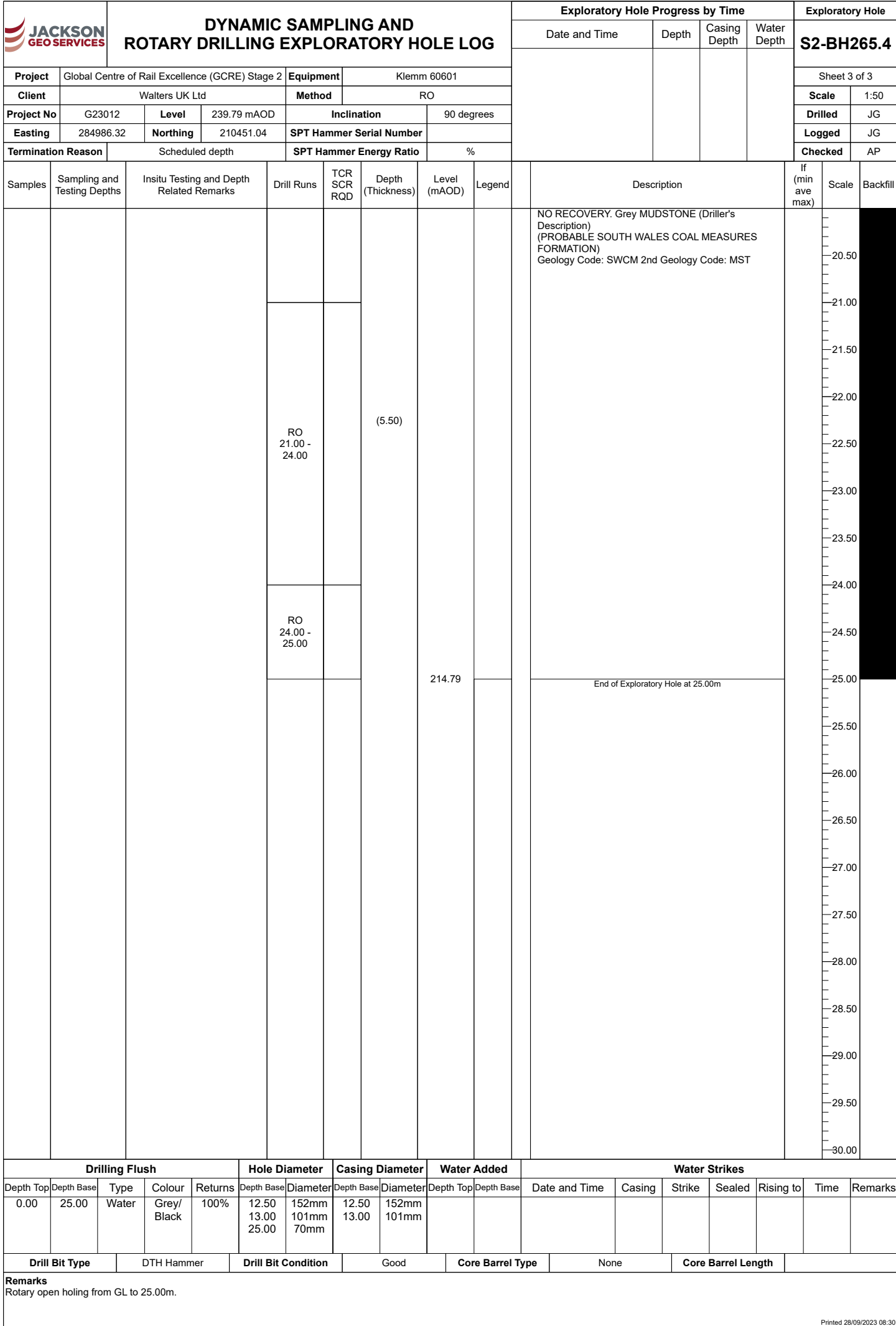
		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	S2-BH265.3				
								02/05/2023 12:00 02/05/2023 14:00		0.00 25.00	13.00	Dry					
								Project		Global Centre of Rail Excellence (GCRE) Stage 2		Equipment			Klemm 60601		
Client		Walters UK Ltd		Method		RO		Sheet 1 of 3									
Project No		G23012		Level		239.77 mAOD		Inclination		90 degrees							
Easting		284988.75		Northing		210452.51		SPT Hammer Serial Number									
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				
				RO 0.00 - 1.50		0.00			NO RECOVERY. Fill (Driller's Description) (MADE GROUND) Geology Code: MGR								
				RO 1.50 - 3.00							0.50						
				RO 3.00 - 4.50							1.00						
				RO 4.50 - 6.00		(10.00)					1.50						
				RO 6.00 - 7.50							2.00						
				RO 7.50 - 9.00							2.50						
				RO 9.00 - 10.50							3.00						
						10.00	229.77				3.50						
Continued on next Sheet														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			
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	25.00	Water	Grey/Black	100%	12.50	152mm	12.50	70mm									
					13.00	152mm	13.00	101mm									
					25.00	70mm											
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length					
Remarks																	
Rotary open holing from GL to 25.00m.																	



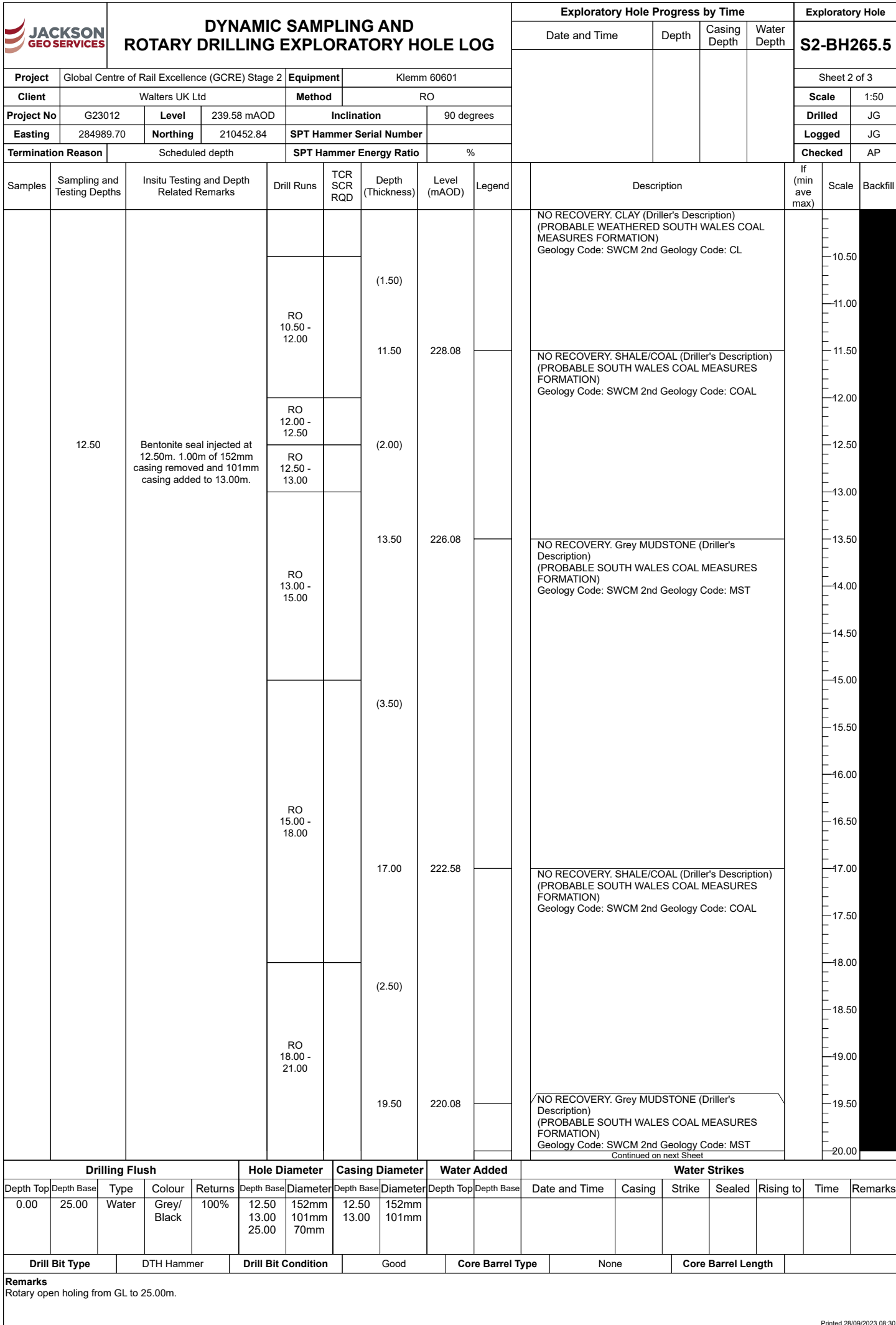
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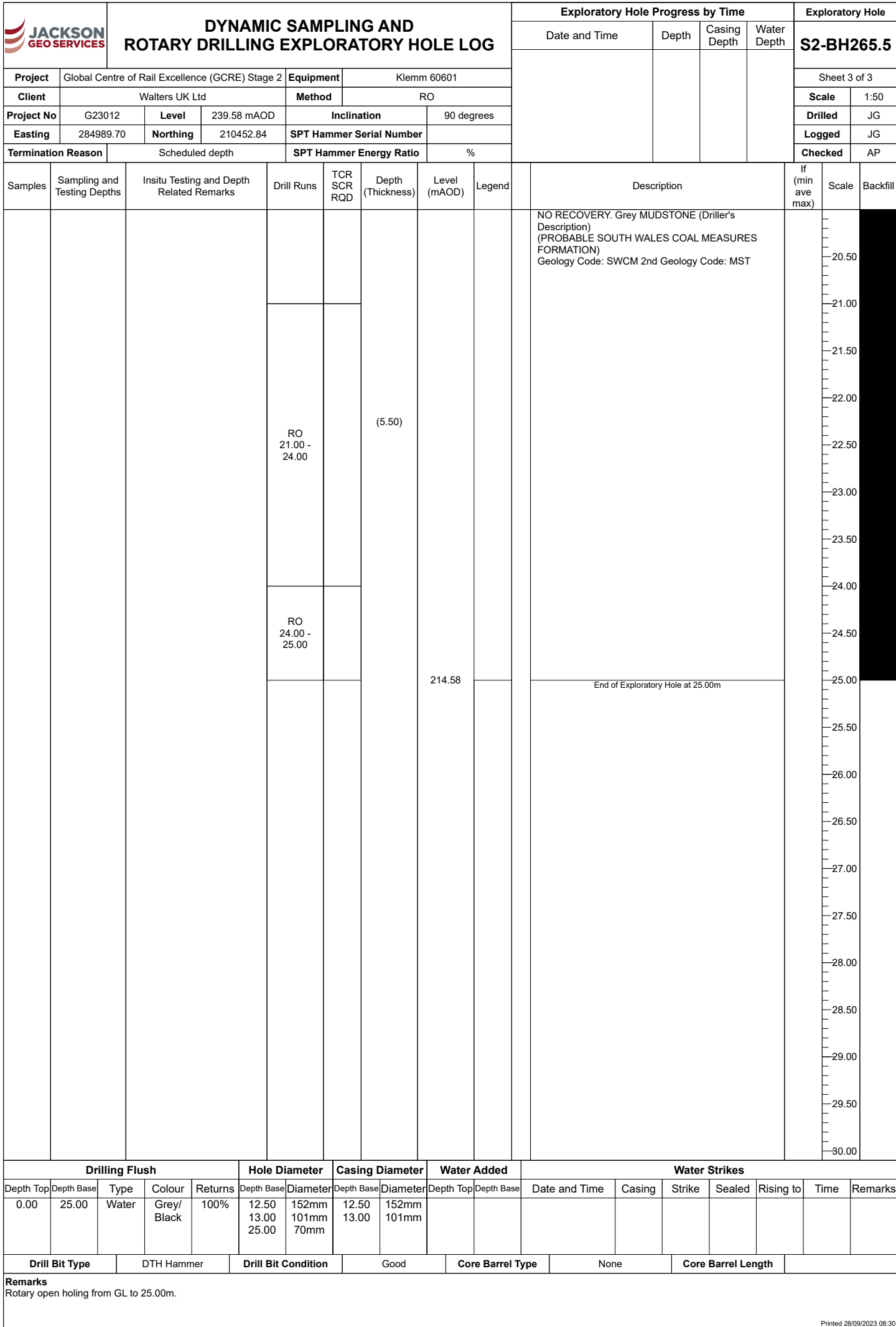
		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	S2-BH265.4				
								03/05/2023 08:00 03/05/2023 10:30		0.00 25.00	13.00	Dry					
								Project		Global Centre of Rail Excellence (GCRE) Stage 2		Equipment			Klemm 60601		
Client		Walters UK Ltd		Method		RO		Sheet 1 of 3									
Project No		G23012		Level		239.79 mAOD		Inclination		90 degrees							
Easting		284986.32		Northing		210451.04		SPT Hammer Serial Number									
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				
				RO 0.00 - 1.50		0.00			NO RECOVERY. Fill (Driller's Description) (MADE GROUND) Geology Code: MGR								
				RO 1.50 - 3.00						0.50							
				RO 3.00 - 4.50						1.00							
				RO 4.50 - 6.00						1.50							
				RO 6.00 - 7.50						2.00							
				RO 7.50 - 9.00						2.50							
				RO 9.00 - 10.50						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								
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	25.00	Water	Grey/Black	100%	12.50	152mm	12.50	152mm									
					13.00	101mm	13.00	101mm									
					25.00	70mm											
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length					
Remarks																	
Rotary open holing from GL to 25.00m.																	

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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-BH265.5				
								03/05/2023 10:30 03/05/2023 13:30		0.00 25.00	13.00	Dry					
								03/05/2023 10:30 03/05/2023 13:30		0.00 25.00	13.00	Dry					
Project	Global Centre of Rail Excellence (GCRE) Stage 2			Equipment	Klemm 60601			Sheet 1 of 3									
Client	Walters UK Ltd			Method	RO			Scale	1:50								
Project No	G23012	Level	239.58 mAOD	Inclination	90 degrees			Drilled	JG								
Easting	284989.70	Northing	210452.84	SPT Hammer Serial Number				Logged	JG								
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					
				RO 0.00 - 1.50		0.00			NO RECOVERY. Fill (Driller's Description) (MADE GROUND) Geology Code: MGR								
				RO 1.50 - 3.00													
				RO 3.00 - 4.50													
				RO 4.50 - 6.00		(10.00)											
				RO 6.00 - 7.50													
				RO 7.50 - 9.00													
				RO 9.00 - 10.50													
						10.00	229.58			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	25.00	Water	Grey/Black	100%	12.50	152mm	12.50	152mm									
					13.00	101mm	13.00	101mm									
					25.00	70mm											
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length					
Remarks																	
Rotary open holing from GL to 25.00m.																	
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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-BH265.6				
								03/05/2023 13:30 03/05/2023 16:00		0.00 25.00	13.00	Dry					
								Project		Global Centre of Rail Excellence (GCRE) Stage 2		Equipment			Klemm 60601		
Client		Walters UK Ltd		Method		RO		Sheet 1 of 3		Scale		1:50					
Project No		G23012		Level		239.86 mAOD		Inclination		90 degrees		Drilled		JG			
Easting		284990.62		Northing		210453.46		SPT Hammer Serial Number				Logged		JG			
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		
				RO 0.00 - 1.50		0.00			NO RECOVERY. Fill (Driller's Description) (MADE GROUND) Geology Code: MGR								
				RO 1.50 - 3.00										0.50			
				RO 3.00 - 4.50										1.00			
				RO 4.50 - 6.00		(10.00)								1.50			
				RO 6.00 - 7.50										2.00			
				RO 7.50 - 9.00										2.50			
				RO 9.00 - 10.50										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							
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	25.00	Water	Grey/Black	100%	12.50	152mm	12.50	152mm									
					13.00	101mm	13.00	101mm									
					25.00	70mm											
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length					
Remarks																	
Rotary open holing from GL to 25.00m.																	
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		TRIAL PIT EXPLORATORY HOLE LOG					Exploratory Hole Progress by Time			Exploratory Hole			
							Date and Time		Depth	Water Depth	S2-TP201		
							17/05/2023 09:15 17/05/2023 12:20		0.00 3.50	Dry			
Project	Global Centre of Rail Excellence (GCRE) Stage 2			Equipment	JCB 220X Ic				Sheet 1 of 1				
Client	Walters UK Ltd			Method	TP				Scale	1:20			
Project No	G23012	Level	237.93 mAOD	Orientation		0 degrees				Logged	AE		
Easting	283338.62	Northing	211893.76	Length		3.50				Checked	AP		
Termination Reason		Scheduled depth		Width		0.65							
Samples	Sampling and Testing Depths		Insitu Testing and Depth Related Remarks		Depth (Thickness)	Level (mAOD)	Legend	Description		Scale	Backfill		
1 ES 2 B	0.20 - 0.30 0.20 - 0.40				0.00 (0.50)	237.43		Dark grey slightly clayey sandy angular to subrounded fine to coarse GRAVEL of siltstone with medium cobble content and low boulder content. Cobbles are angular to subangular of siltstone (150×80×60mm). Boulders are subangular of medium strong to strong siltstone (370×210×110mm). Sand is fine to coarse. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR		0.50			
3 ES	0.60 - 0.70				0.50			Soft greyish brown gravelly silty CLAY with low cobble content and low boulder content. Gravel is subangular to subrounded fine to coarse of mudstone and siltstone. Cobbles are angular to subangular of moderately weak to medium strong siltstone (160×90×70mm). Boulders are subangular of medium strong siltstone (320×190×140mm). (GLACIAL TILL) Geology Code: GT 2nd Geology Code: CL					
4 ES 5 D	0.90 - 1.00 0.90 - 1.00				(1.40)			1.80m - 1.90m Spongy dark brown fibrous peat with frequent roots (up to 3mm).					
6 D	1.40 - 1.50				1.90	236.03		Firm grey mottled brownish yellow slightly gravelly slightly sandy CLAY with occasional pockets of pinkish brown fine sand (up to 80mm). Gravel is subangular to rounded fine to coarse of siltstone and rare sandstone. Sand is fine. (GLACIAL TILL) Geology Code: GT 2nd Geology Code: CL		2.00			
7 D	1.80 - 1.90				(1.10)	234.93		Soft greyish brown sandy gravelly CLAY with medium cobble content. Gravel is angular to subrounded fine to coarse of mudstone siltstone and sandstone. Cobbles are subangular to subrounded of medium strong siltstone and sandstone (180×160×100mm). Sand is fine to medium. (GLACIAL TILL) Geology Code: GT 2nd Geology Code: CL		2.50			
8 ES	2.00 - 2.10				3.00			End of Exploratory Hole at 3.50m		3.00			
9 D	2.40 - 2.50				(0.50)					3.50			
10 D 11 B	3.10 - 3.20 3.20 - 3.40				234.43					4.00			
Weather		Sunny		Trial Pit Excavation Onsite Layout Log presents Face A unless otherwise noted.				Water Strikes					
Shoring		None						Date and Time		Strike	Rising to	Time	Remarks
Stability		Collaspe Face A and C GL-0.50m											
Remarks Machine excavated trial pit from GL to 3.50m													

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		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP201
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283338.62	Equipment	JCB 220X lc	Sheet 1 of 3
Client	Walters UK Ltd	Northing	211893.76	Method	TP	
Project No	G23012	Level	237.93 mAOD	Termination Reason	Scheduled depth	



S2-TP201 Pre Condition



S2-TP201 Face B

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283338.62	Equipment	JCB 220X 1c
Client	Walters UK Ltd	Northing	211893.76	Method	TP
Project No	G23012	Level	237.93 mAOD	Termination Reason	Scheduled depth

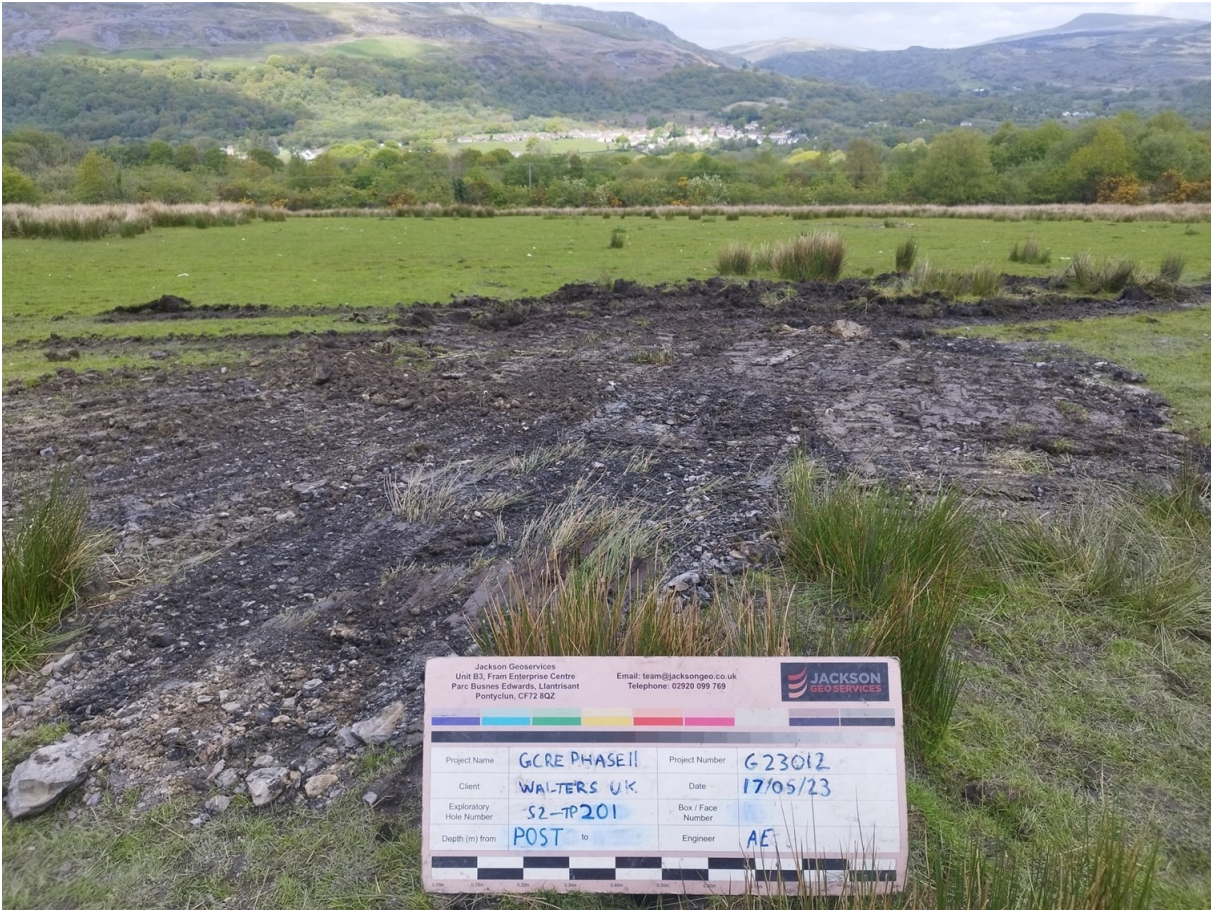


S2-TP201 Spoil



S2-TP201 Face A

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP201
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283338.62	Equipment	JCB 220X 1c	Sheet 3 of 3
Client	Walters UK Ltd	Northing	211893.76	Method	TP	
Project No	G23012	Level	237.93 mAOD	Termination Reason	Scheduled depth	



S2-TP201 Post Condition



S2-TP201 Face D

		TRIAL PIT EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time			Exploratory Hole		
								Date and Time		Depth	Water Depth	S2-TP202	
								28/04/2023 09:35 28/04/2023 10:15		0.00 3.50	Dry		
Project	Global Centre of Rail Excellence (GCRE) Stage 2			Equipment	JCB 220X Ic			Sheet 1 of 1					
Client	Walters UK Ltd			Method	TP			Scale	1:20				
Project No	G23012	Level	227.53 mAOD	Orientation		90 degrees		Logged	CE				
Easting	282541.29	Northing	211892.02	Length		4.20		Checked	AP				
Termination Reason		Scheduled depth		Width		0.60							
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks		Depth (Thickness)	Level (mAOD)	Legend	Description	Scale	Backfill				
1 ES	0.20 - 0.30			0.00	224.03		Dark grey sandy clayey angular and subangular fine to coarse GRAVEL of siltstone, sandstone and mudstone with medium cobble content. Cobbles (200x120x70mm) are angular of medium strong siltstone and sandstone. Sand is fine to coarse. Occasional large irregular pockets of gravelly clay (up to 400mm) and rare metal fragments (up to 400mm) (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR						
2 B	0.40 - 0.60												
3 ES	0.50 - 0.60												
4 ES	0.90 - 1.00												
5 B	1.40 - 1.60												
6 ES	1.90 - 2.00												
7 B	2.40 - 2.60												
8 ES	2.90 - 3.00												
9 B	3.30 - 3.50												
							End of Exploratory Hole at 3.50m	3.50					
Weather	Overcast, dry		Trial Pit Excavation Onsite Layout				Water Strikes						
Shoring	None						Date and Time	Strike	Rising to	Time	Remarks		
Stability	Collapse 2.20-3.50m Faces A and C												
Remarks Machine excavated trial pit from GL to 3.50m													

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Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282541.29	Equipment	JCB 220X 1c
Client	Walters UK Ltd	Northing	211892.02	Method	TP
Project No	G23012	Level	227.53 mAOD	Termination Reason	Scheduled depth



S2-TP202 Face A



S2-TP202 Face C

		EXPLORATORY HOLE PHOTOGRAPHS		Exploratory Hole	
				S2-TP202	
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282541.29	Equipment	JCB 220X 1c
Client	Walters UK Ltd	Northing	211892.02	Method	TP
Project No	G23012	Level	227.53 mAOD	Termination Reason	Scheduled depth

Sheet 2 of 4



S2-TP202 Post Excavation



S2-TP202 Spoil

EXPLORATORY HOLE PHOTOGRAPHS

Exploratory Hole
S2-TP202

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282541.29	Equipment	JCB 220X 1c	Sheet 3 of 4
Client	Walters UK Ltd	Northing	211892.02	Method	TP	
Project No	G23012	Level	227.53 mAOD	Termination Reason	Scheduled depth	



S2-TP202 Face B



S2-TP202 Pre Excavation

EXPLORATORY HOLE PHOTOGRAPHS

Exploratory Hole

S2-TP202

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282541.29	Equipment	JCB 220X 1c
Client	Walters UK Ltd	Northing	211892.02	Method	TP
Project No	G23012	Level	227.53 mAOD	Termination Reason	Scheduled depth

Sheet 4 of 4



S2-TP202 Face D

		TRIAL PIT EXPLORATORY HOLE LOG					Exploratory Hole Progress by Time			Exploratory Hole		
							Date and Time		Depth	Water Depth	S2-TP203	
							09/05/2023 08:40 09/05/2023 09:45		0.00 3.50	Dry		
Project	Global Centre of Rail Excellence (GCRE) Stage 2			Equipment	JCB 220X Ic			Sheet 1 of 1				
Client	Walters UK Ltd			Method	TP			Scale	1:20			
Project No	G23012	Level	223.68 mAOD	Orientation		45 degrees		Logged	AE			
Easting	282077.95	Northing	211961.74	Length		3.80		Checked	AP			
Termination Reason		Scheduled depth.		Width		0.70						
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks		Depth (Thickness)	Level (mAOD)	Legend	Description	Scale	Backfill			
1 ES	0.20 - 0.30			0.00			Dark grey sandy clayey angular to subangular fine to coarse GRAVEL of siltstone and mudstone, with medium cobble content low boulder content. Cobbles are angular to subangular of moderately weak to medium strong siltstone (160×110×80mm). Boulders are angular to subangular of moderately weak to medium strong siltstone (700×450×150mm). Sand is fine to coarse. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR					
2 ES 3 B	0.50 - 0.60 0.50 - 0.80							0.50				
4 ES	0.90 - 1.00							1.00				
5 B	1.50 - 1.80							1.50				
6 ES	1.90 - 2.00			(3.50)				2.00				
7 B	2.50 - 2.80							2.50				
8 ES	2.90 - 3.00							3.00				
					220.18			3.50				
							End of Exploratory Hole at 3.50m					
								4.00				
Weather	Overcast, light rain.	Trial Pit Excavation Onsite Layout 					Water Strikes					
Shoring	None						Date and Time		Strike	Rising to	Time	Remarks
Stability	Collapse Face A and C between GL-3.50m											
Remarks Machine excavated trial pit from GL to 3.50m.												

		EXPLORATORY HOLE PHOTOGRAPHS		Exploratory Hole	
				S2-TP203	
Project	Global Centre of Rail Excellence (GCRC) Stage 2	Easting	282077.95	Equipment	JCB 220X 1c
Client	Walters UK Ltd	Northing	211961.74	Method	TP
Project No	G23012	Level	223.68 mAOD	Termination Reason	Scheduled depth.

Sheet 1 of 3



S2-TP203 Post Excavation



S2-TP203 Pre Excavation