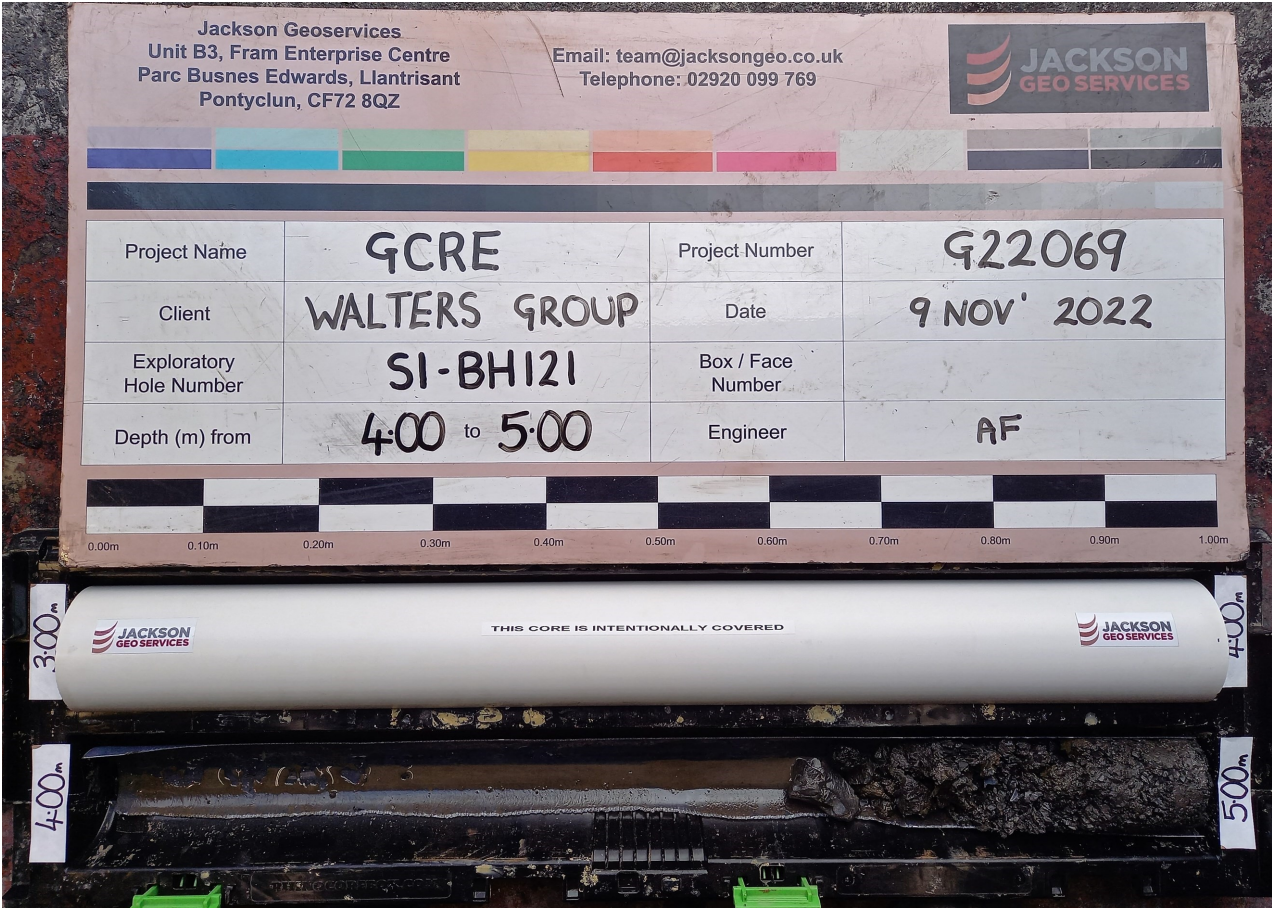


		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Hand excavated inspection pit from GL to 0.70m depth. Dynamic sampling from 0.70m to 6.50m depth. Rotary coring from 6.50m to 10.50m depth.		Exploratory Hole S1-BH121
Project	Global Centre of Rail Excellence	Easting	284475.72	Equipment	Beretta T44/Insulated Hand Tools	Sheet 2 of 3
Client	Walters UK Limited	Northing	210703.00	Method	RC/DS/IP	
Project No	G22069	Level	230.88 mAOD	Termination Reason	Scheduled depth	



S1-BH121 3.00 m to 4.00 m

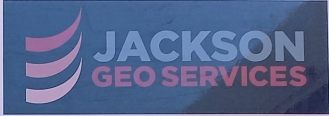


S1-BH121 4.00 m to 5.00 m

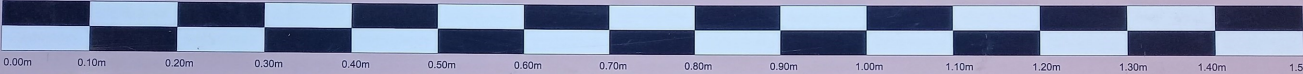
		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Hand excavated inspection pit from GL to 0.70m depth. Dynamic sampling from 0.70m to 6.50m depth. Rotary coring from 6.50m to 10.50m depth.		Exploratory Hole S1-BH121
Project	Global Centre of Rail Excellence	Easting	284475.72	Equipment	Beretta T44/Insulated Hand Tools	Sheet 3 of 3
Client	Walters UK Limited	Northing	210703.00	Method	RC/DS/IP	
Project No	G22069	Level	230.88 mAOD	Termination Reason	Scheduled depth	

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Project Name	GCRE	Project Number	G22069
Client	WALTERS GROUP	Date	9 NOV' 2022
Exploratory Hole Number	S1-BH121	Box / Face Number	
Depth (m) from	9.00 to 10.50	Engineer	AF



0.00m 0.10m 0.20m 0.30m 0.40m 0.50m 0.60m 0.70m 0.80m 0.90m 1.00m 1.10m 1.20m 1.30m 1.40m 1.50m

9.00m



10.50m

S1-BH121 9.00 m to 10.50 m

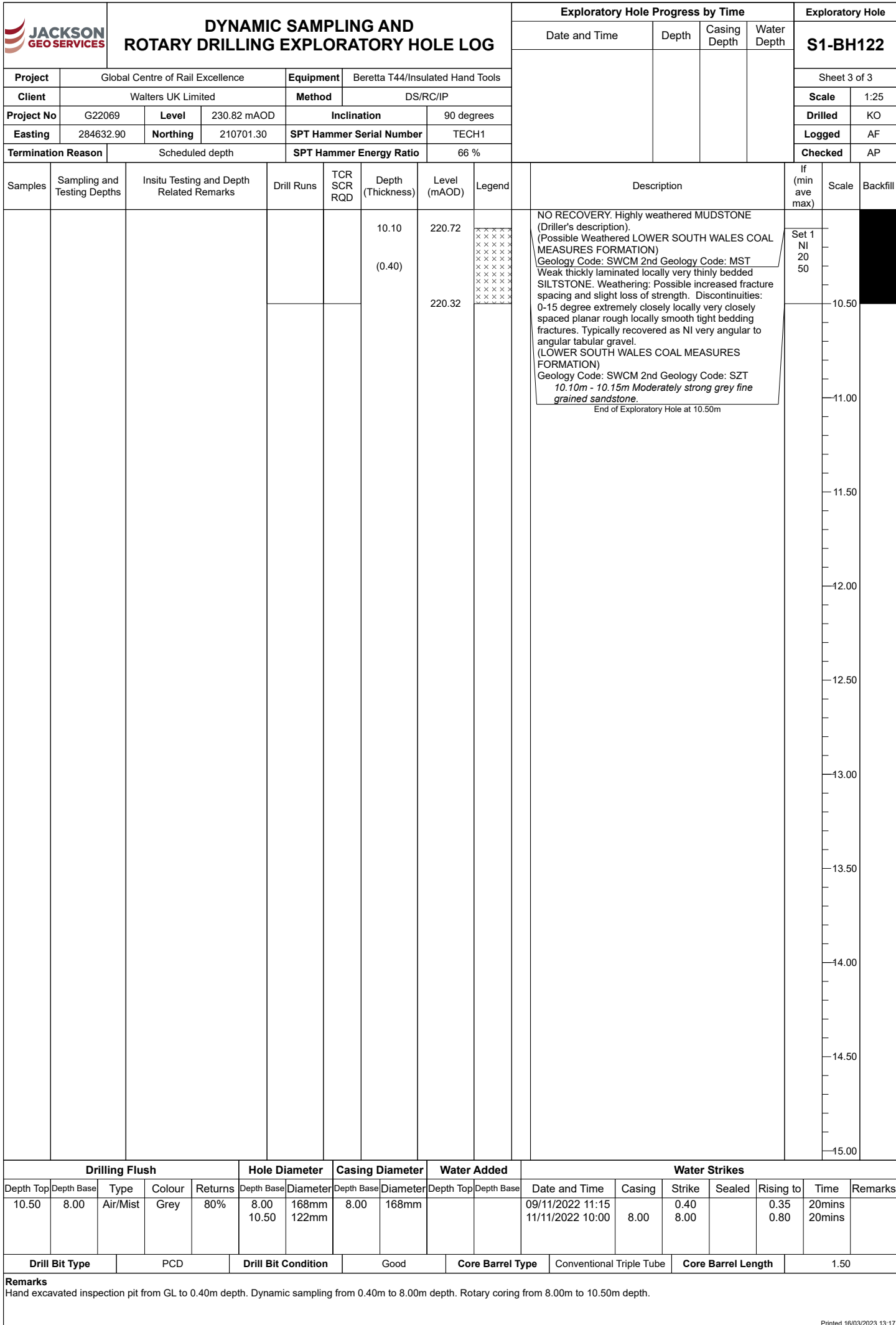


Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	S1-BH122	
09/11/2022 11:10	0.00				
09/11/2022 16:00	5.00	4.00	2.10	Sheet 1 of 3	
11/11/2022 08:30	5.00	4.00	0.80	Scale	1:25
11/11/2022 16:26	10.50	8.00	0.80	Drilled	KO
				Logged	AF
				Checked	AP

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
10.50	8.00	Air/Mist	Grey	80%	8.00	168mm	8.00	168mm			09/11/2022 11:15 11/11/2022 10:00	8.00	0.40 8.00		0.35 0.80	20mins 20mins	
Drill Bit Type		PCD			Drill Bit Condition		Good		Core Barrel Type		Conventional Triple Tube		Core Barrel Length			1.50	

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		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Hand excavated inspection pit from GL to 0.40m depth. Dynamic sampling from 0.40m to 8.00m depth. Rotary coring from 8.00m to 10.50m depth.		Exploratory Hole S1-BH122
Project	Global Centre of Rail Excellence	Easting	284632.90	Equipment	Beretta T44/Insulated Hand Tools	Sheet 1 of 2
Client	Walters UK Limited	Northing	210701.30	Method	DS/RC/IP	
Project No	G22069	Level	230.82 mAOD	Termination Reason	Scheduled depth	



S1-BH122 2.00 m to 3.00 m



S1-BH122 4.00 m to 5.00 m

		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Hand excavated inspection pit from GL to 0.40m depth. Dynamic sampling from 0.40m to 8.00m depth. Rotary coring from 8.00m to 10.50m depth.		Exploratory Hole S1-BH122
Project	Global Centre of Rail Excellence	Easting	284632.90	Equipment	Beretta T44/Insulated Hand Tools	Sheet 2 of 2
Client	Walters UK Limited	Northing	210701.30	Method	DS/RC/IP	
Project No	G22069	Level	230.82 mAOD	Termination Reason	Scheduled depth	



S1-BH122 5.00 m to 6.00 m



S1-BH122 9.00 m to 10.50 m

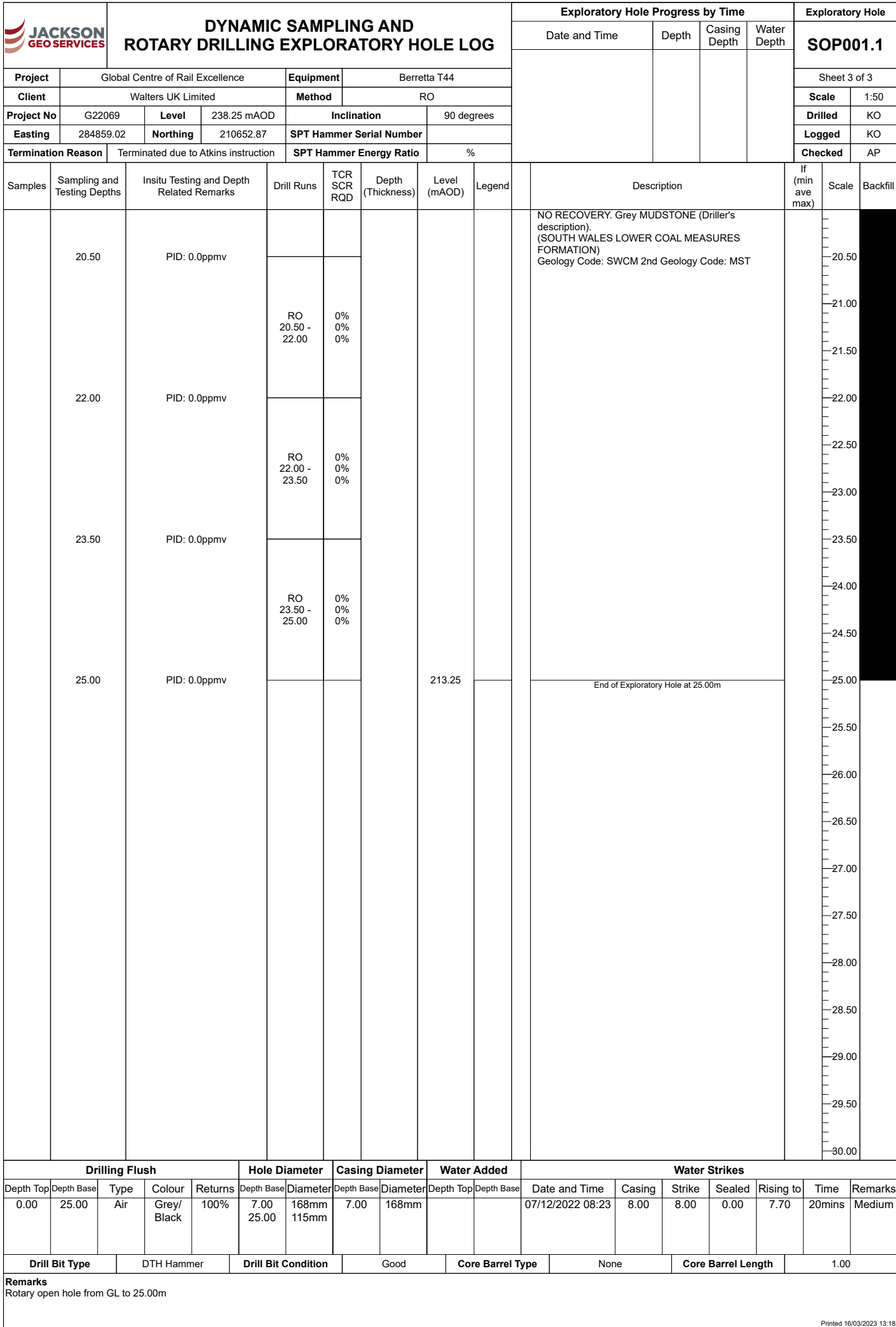
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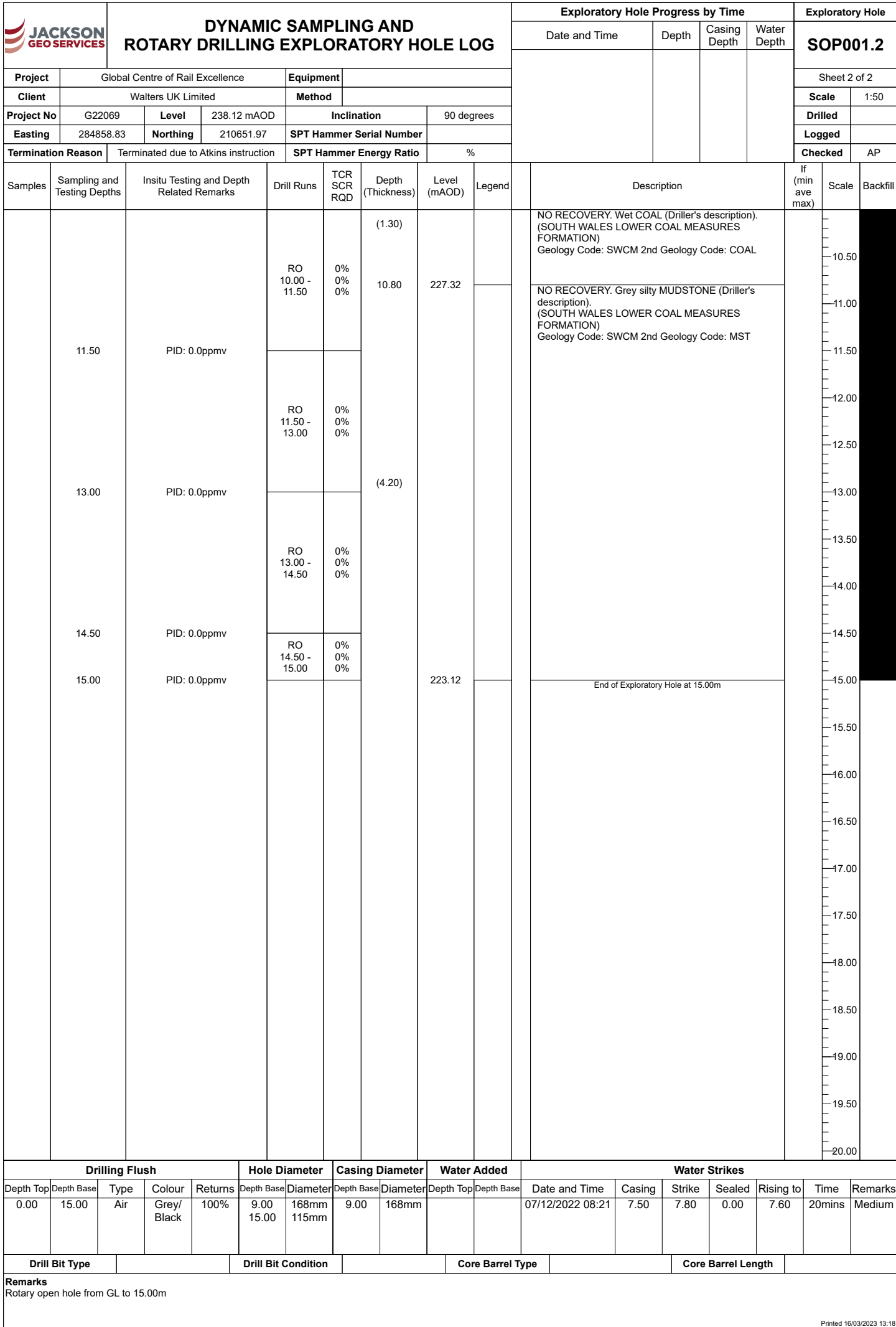
Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	SOP001.1	
				Sheet 2 of 3	
				Scale	1:50
				Drilled	KO
				Logged	KO
				Checked	AP

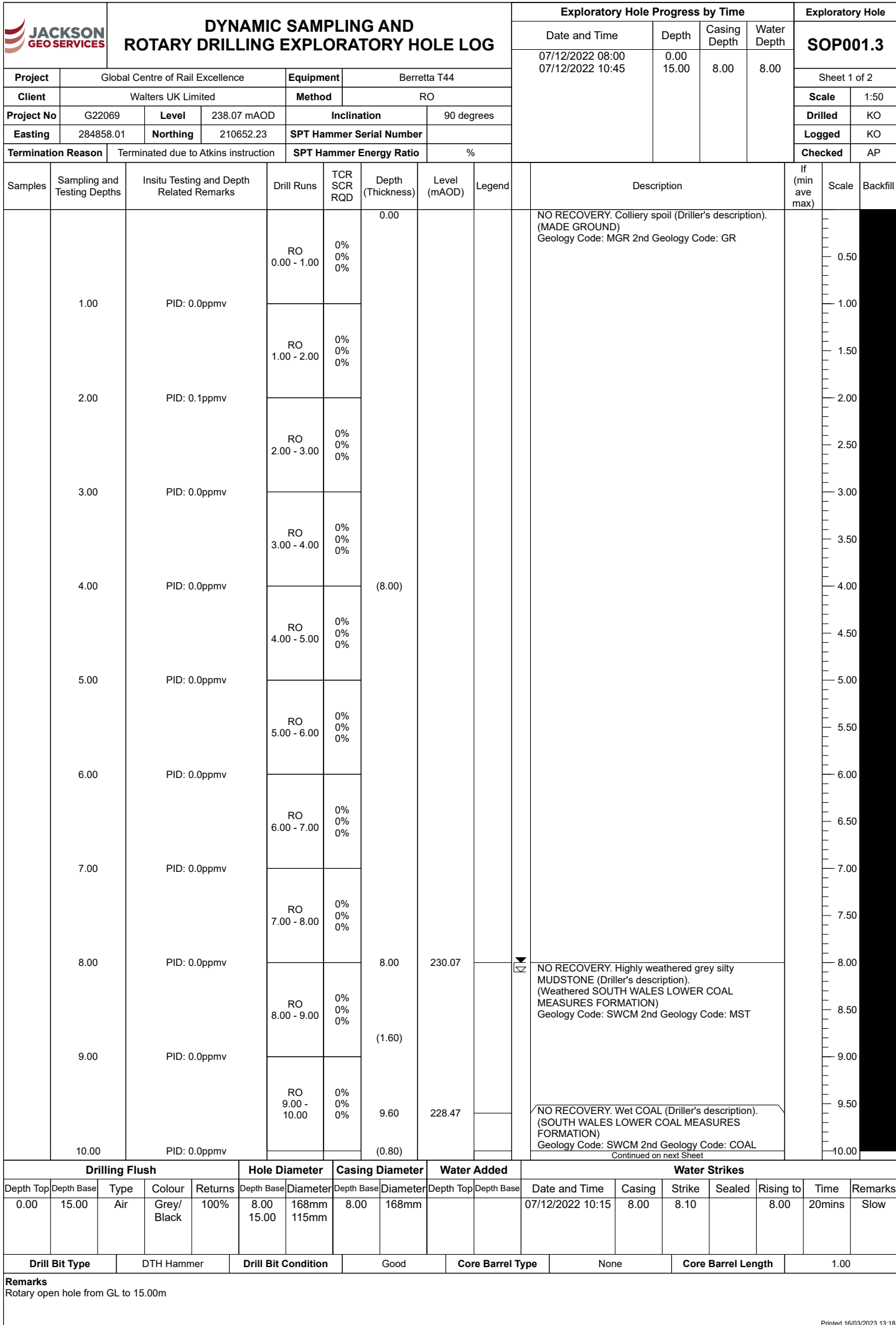
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	25.00	Air	Grey/ Black	100%	7.00 25.00	168mm 115mm	7.00	168mm			07/12/2022 08:23	8.00	8.00	0.00	7.70	20mins	Medium
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00		

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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	SOP001.5				
								07/12/2022 14:45 07/12/2022 16:35		0.00 15.00	8.00	Damp					
								Sheet 1 of 2									
Project		Global Centre of Rail Excellence			Equipment		Berretta T44			Scale		1:50					
Client		Walters UK Limited			Method		RO			Drilled		KO					
Project No		G22069		Level		238.12 mAOD		Inclination		90 degrees		Logged		KO			
Easting		284857.92		Northing		210654.39		SPT Hammer Serial Number				Checked		AP			
Termination Reason		Terminated due to Atkins instruction			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	
	1.00		PID: 0.0ppmv			RO 0.00 - 1.00	0% 0% 0%	0.00			NO RECOVERY. Colliery spoil (Driller's description). (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR				0.50		
	2.00		PID: 0.0ppmv			RO 1.00 - 2.00	0% 0% 0%								1.00		
	3.00		PID: 0.0ppmv			RO 2.00 - 3.00	0% 0% 0%								1.50		
	4.00		PID: 0.0ppmv			RO 3.00 - 4.00	0% 0% 0%								2.00		
	5.00		PID: 0.0ppmv			RO 4.00 - 5.00	0% 0% 0%								2.50		
	6.00		PID: 0.0ppmv			RO 5.00 - 6.00	0% 0% 0%								3.00		
	7.00		PID: 0.0ppmv			RO 6.00 - 7.00	0% 0% 0%								3.50		
	8.00		PID: 0.0ppmv			RO 7.00 - 8.00	0% 0% 0%								4.00		
	9.00		PID: 0.0ppmv			RO 8.00 - 9.00	0% 0% 0%	(8.20)	229.92		NO RECOVERY. Highly weathered grey silty MUDSTONE (Driller's description). (Weathered SOUTH WALES LOWER COAL MEASURES) Geology Code: SWCM 2nd Geology Code: MST				4.50		
	10.00		PID: 0.0ppmv			RO 9.00 - 10.00	0% 0% 0%	5.00									
								5.50									
								6.00							6.50		
								6.50							7.00		
								7.00							7.50		
								7.50							8.00		
								8.00							8.50		
								8.50							9.00		
								9.00							9.50		
								9.50							10.00		
								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	15.00	Air	Grey/ Black	100%	8.00	168mm 115mm	8.00	168mm			07/12/2022 15:00	8.00	8.10		8.10	20mins	Damp
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00		
Remarks Rotary open hole from GL to 15.00m																	
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Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	SOP001.7 Sheet 2 of 2 Scale 1:50 Drilled KO Logged KO Checked AP	

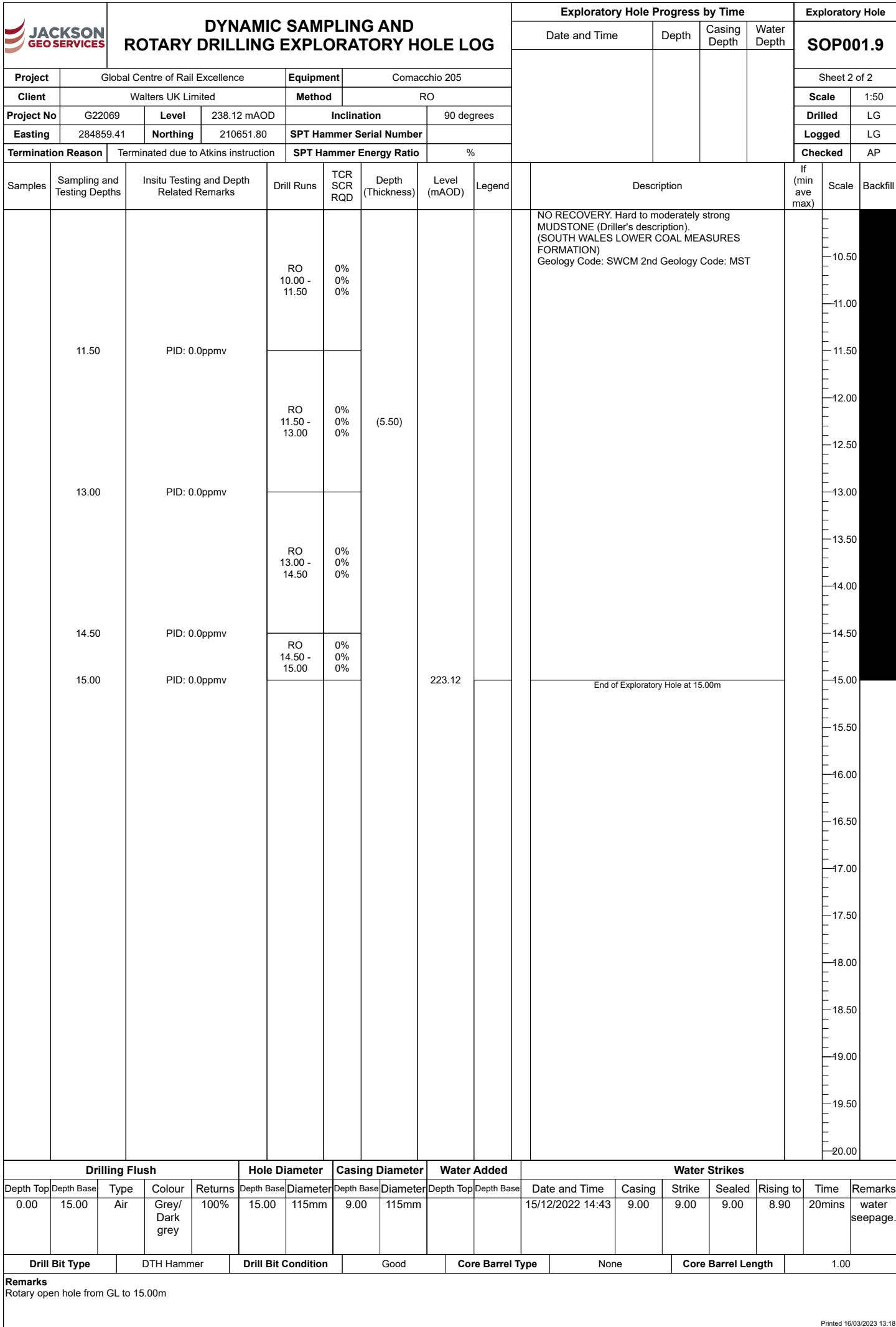
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	15.00	Air/Mist	Grey/ Black	100%	15.00	115mm	8.00	168mm									
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00		

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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		SOP001.8 Sheet 2 of 2 Scale1:50 DrilledLG LoggedLG CheckedAP			
												Project		Global Centre of Rail Excellence				Equipment		Comacchio 205					
Client		Walters UK Limited				Method		RO																	
Project No		G22069		Level		238.10 mAOD		Inclination			90 degrees														
Easting		284859.83		Northing		210652.78		SPT Hammer Serial Number																	
Termination Reason		Terminated due to Atkins instruction				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							
	11.50		PID: 0.0ppmv			RO 10.00 - 11.50	0% 0% 0%	(5.70)	223.10		NO RECOVERY. Moderately strong grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST						10.50								
						11.00																			
	13.00		PID: 0.0ppmv			RO 11.50 - 13.00	0% 0% 0%										11.50								
						12.00																			
	14.50		PID: 0.0ppmv			RO 13.00 - 14.50	0% 0% 0%										12.50								
13.00																									
15.00		PID: 0.0ppmv			RO 14.50 - 15.00	0% 0% 0%	13.50																		
											End of Exploratory Hole at 15.00m					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	15.00	Air	Grey/ Dark grey	100%	15.00	115mm	9.00	115mm			15/12/2022 11:24	9.00	9.30		8.70	20mins	Slow								
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00											
Remarks																									
Rotary open hole from GL to 15.00m																									

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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	SOP001.10				
													Sheet 2 of 2				
													Scale	1:50			
Project		Global Centre of Rail Excellence			Equipment		Comacchio 205			Drilled		LG					
Client		Walters UK Limited			Method		RO			Logged		LG					
Project No		G22069		Level		238.13 mAOD		Inclination		90 degrees		Checked		AP			
Easting		284859.12		Northing		210650.75		SPT Hammer Serial Number									
Termination Reason		Terminated due to Atkins instruction			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		
	11.50	PID: 0.0ppmv			RO 10.00 - 11.50	0% 0% 0%	(6.00)	223.13		NO RECOVERY. Moderately strong grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST				10.50			
														11.00			
														11.50			
														12.00			
	13.00	PID: 0.0ppmv			RO 11.50 - 13.00	0% 0% 0%								12.50			
														13.00			
														13.50			
														14.00			
	14.50	PID: 0.0ppmv			RO 13.00 - 14.50	0% 0% 0%								14.50			
														15.00			
	15.00	PID: 0.0ppmv			RO 14.50 - 15.00	0% 0% 0%				End of Exploratory Hole at 15.00m				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	15.00	Air	Grey	100%	15.00	115mm	9.00	115mm									
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks Rotary open hole from GL to 15.00m																	
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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	SOP001.11		
										Project		Global Centre of Rail Excellence					Equipment
Client		Walters UK Limited			Method		RO			Scale	1:50						
Project No		G22069		Level	238.07 mAOD		Inclination		90 degrees		Drilled	LG					
Easting		284857.94		Northing	210651.00		SPT Hammer Serial Number				Logged	LG					
Termination Reason		Terminated due to 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			
	11.50	PID: 0.0ppmv			RO 10.00 - 11.50	0% 0% 0%	(6.00)	223.07		NO RECOVERY. Hard to moderately strong grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST		10.50					
												11.00					
												11.50					
												12.00					
	13.00	PID: 0.0ppmv			RO 11.50 - 13.00	0% 0% 0%						12.50					
												13.00					
	14.50	PID: 0.0ppmv			RO 13.00 - 14.50	0% 0% 0%						13.50					
												14.00					
	15.00	PID: 0.0ppmv			RO 14.50 - 15.00	0% 0% 0%						14.50					
										End of Exploratory Hole at 15.00m		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	15.00	Air	Grey	100%	15.00	115mm	9.00	115mm									
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks Rotary open hole from GL to 15.00m																	

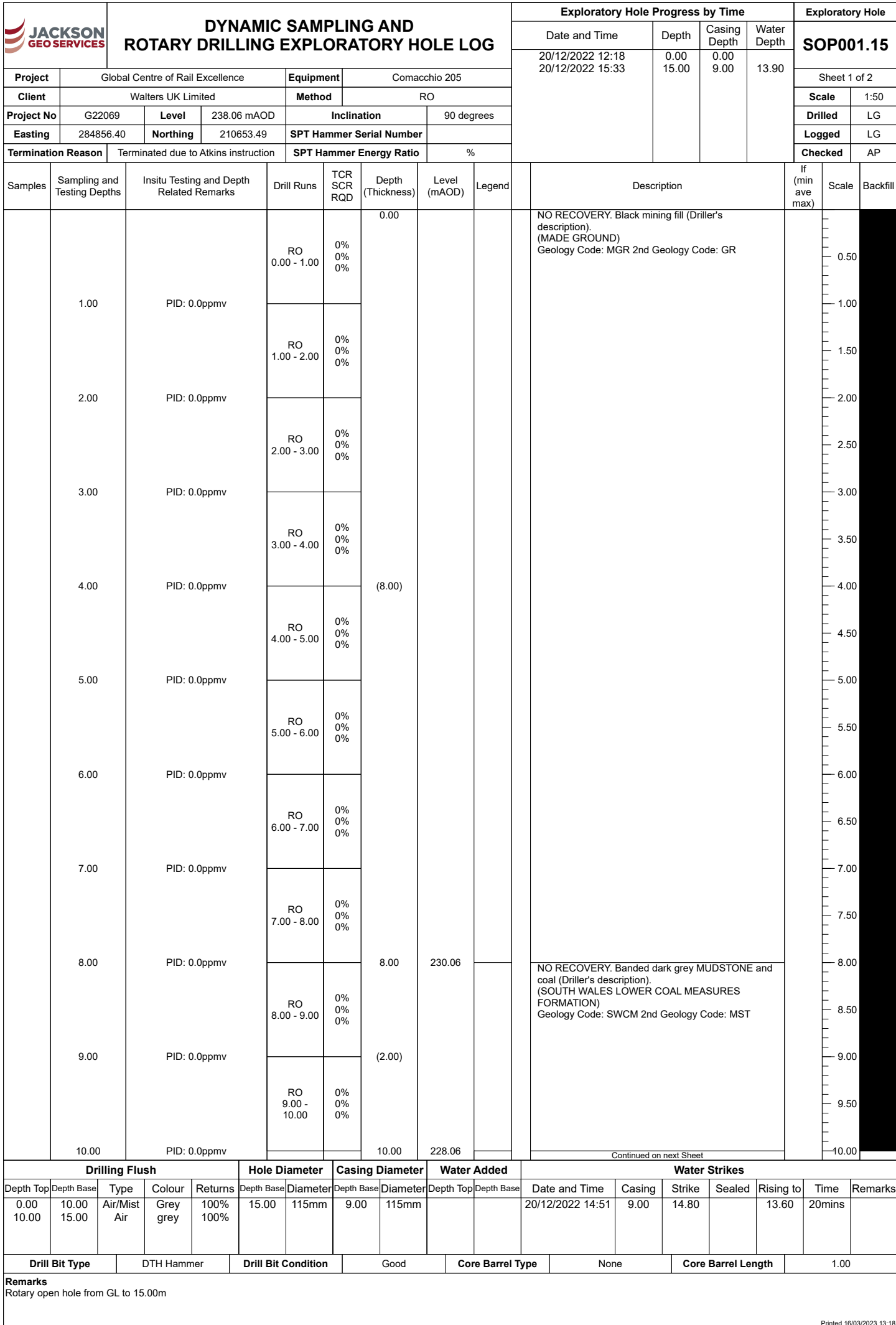
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		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP001.12				
													Sheet 2 of 2				
													Scale 1:50				
Project		Global Centre of Rail Excellence			Equipment		Comacchio 205			Drilled LG							
Client		Walters UK Limited			Method		RO			Logged LG							
Project No		G22069	Level	238.09 mAOD	Inclination		90 degrees			Checked AP							
Easting		284856.93	Northing	210651.27	SPT Hammer Serial Number												
Termination Reason		Terminated due to Atkins instruction			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				
	11.50	PID: 0.0ppmv			RO 10.00 - 11.50	0% 0% 0%	(6.00)	223.09		NO RECOVERY. Moderately strong to hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST		10.50					
												11.00					
												11.50					
												12.00					
	13.00	PID: 0.0ppmv			RO 11.50 - 13.00	0% 0% 0%						12.50					
												13.00					
												13.50					
												14.00					
	14.50	PID: 0.0ppmv			RO 13.00 - 14.50	0% 0% 0%						14.50					
												15.00					
	15.00	PID: 0.0ppmv			RO 14.50 - 15.00	0% 0% 0%				End of Exploratory Hole at 15.00m		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	15.00	Air	grey	100%	15.00	115mm	9.00	115mm									
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks Rotary open hole from GL to 15.00m																	
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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	SOP001.13	
Project		Global Centre of Rail Excellence				Equipment		Comacchio 205				Sheet 2 of 2						
Client		Walters UK Limited				Method		RO				Scale	1:50					
Project No		G22069		Level		238.08 mAOD		Inclination		90 degrees		Drilled	LG					
Easting		284856.16		Northing		210651.44		SPT Hammer Serial Number				Logged	LG					
Termination Reason		Terminated due to 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			
	11.50	PID: 0.0ppmv				RO 10.00 - 11.50	0% 0% 0%	(6.50)	223.08		NO RECOVERY. Moderately strong to hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST		10.50					
																11.00		
																11.50		
																12.00		
	13.00	PID: 0.0ppmv				RO 11.50 - 13.00	0% 0% 0%						12.50					
													13.00					
	14.50	PID: 0.0ppmv				RO 13.00 - 14.50	0% 0% 0%						13.50					
													14.00					
	15.00	PID: 0.0ppmv				RO 14.50 - 15.00	0% 0% 0%						14.50					
											End of Exploratory Hole at 15.00m		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	15.00	Air	Grey	100%	15.00	115mm	9.00	115mm										
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00				
Remarks Rotary open hole from GL to 15.00m																		
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Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	SOP001.15 Sheet 2 of 2 Scale 1:50 Drilled LG Logged LG 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	10.00	Air/Mist	Grey	100%	15.00	115mm	9.00	115mm			20/12/2022 14:51	9.00	14.80		13.60	20mins	
10.00	15.00	Air	grey	100%													
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00		

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Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	SOP001.16	
21/12/2022 08:39	0.00				
21/12/2022 11:20	15.00	9.00	Dry	Sheet 1 of 2	
				Scale	1:50
				Drilled	LG
				Logged	LG
				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	10.00	Air/Mist	Grey/Black	100%	15.00	115mm	9.00	115mm									
10.00	15.00	Air	Grey	100%													
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00		

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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	SOP001.16	
												Project		Global Centre of Rail Excellence				
Client		Walters UK Limited			Method		RO			Scale	1:50							
Project No		G22069		Level	237.51 mAOD		Inclination		90 degrees		Drilled	LG						
Easting		284850.87		Northing	210630.17		SPT Hammer Serial Number				Logged	LG						
Termination Reason		Terminated due to 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			
	11.50		PID: 0.0ppmv			RO 10.00 - 11.50	0% 0% 0%	(5.00)	222.51		NO RECOVERY. Hard to moderately strong grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST			10.50				
														11.00				
														11.50				
						RO 11.50 - 13.00	0% 0% 0%							12.00				
														12.50				
	13.00		PID: 0.0ppmv										13.00					
														13.50				
														14.00				
	14.50		PID: 0.0ppmv			RO 13.00 - 14.50	0% 0% 0%							14.50				
														15.00				
	15.00		PID: 0.0ppmv			RO 14.50 - 15.00	0% 0% 0%				End of Exploratory Hole at 15.00m			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	10.00	Air/Mist	Grey/ Black Grey	100%	15.00	115mm	9.00	115mm										
10.00	15.00	Air		100%														
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks Rotary open hole from GL to 15.00m																		

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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	SOP001.17				
								21/12/2022 11:35 21/12/2022 13:31		0.00 15.00	0.00 7.50	Dry					
								21/12/2022 11:35 21/12/2022 13:31		0.00 15.00	0.00 7.50	Dry					
Project		Global Centre of Rail Excellence			Equipment		Comacchio 205			Sheet 1 of 2							
Client		Walters UK Limited			Method		RO			Scale 1:50							
Project No		G22069	Level	237.59 mAOD	Inclination		90 degrees		Drilled LG								
Easting		284851.62	Northing	210629.88	SPT Hammer Serial Number				Logged LG								
Termination Reason		Terminated due to 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				
	1.00	PID: 0.0ppmv			RO 0.00 - 1.00	0% 0% 0%	0.00			NO RECOVERY. Black granular mining fill (Driller's description). (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR		0.50					
	2.00	PID: 0.0ppmv			RO 1.00 - 2.00	0% 0% 0%						1.00					
	3.00	PID: 0.0ppmv			RO 2.00 - 3.00	0% 0% 0%						1.50					
	4.00	PID: 0.0ppmv			RO 3.00 - 4.00	0% 0% 0%						2.00					
	5.00	PID: 0.0ppmv			RO 4.00 - 5.00	0% 0% 0%						2.50					
	6.00	PID: 0.0ppmv			RO 5.00 - 6.00	0% 0% 0%						3.00					
	7.00	PID: 0.0ppmv			RO 6.00 - 7.00	0% 0% 0%						3.50					
	8.00	PID: 0.0ppmv			RO 7.00 - 8.00	0% 0% 0%						4.00					
	9.00	PID: 0.0ppmv			RO 8.00 - 9.00	0% 0% 0%	8.00	229.59		NO RECOVERY. Dark grey MUDSTONE and banded coal (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST		4.50					
	10.00	PID: 0.0ppmv			RO 9.00 - 10.00	0% 0% 0%	9.00	228.59				5.00					
Continued on next Sheet															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	15.00	Air	Grey	100%	15.00	115mm	7.50	115mm									
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks Rotary open hole from GL to 15.00m																	
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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	SOP001.17				
Project		Global Centre of Rail Excellence			Equipment		Comacchio 205			Sheet 2 of 2							
Client		Walters UK Limited			Method		RO			Scale 1:50							
Project No		G22069	Level	237.59 mAOD	Inclination		90 degrees			Drilled LG							
Easting		284851.62	Northing	210629.88	SPT Hammer Serial Number					Logged LG							
Termination Reason		Terminated due to 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				
	11.50	PID: 0.0ppmv			RO 10.00 - 11.50	0% 0% 0%	(6.00)	222.59		NO RECOVERY. Moderately strong to hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST		10.50					
												11.00					
	13.00	PID: 0.0ppmv			RO 11.50 - 13.00	0% 0% 0%						11.50					
												12.00					
												12.50					
	14.50	PID: 0.0ppmv			RO 13.00 - 14.50	0% 0% 0%						13.00					
												13.50					
	15.00	PID: 0.0ppmv			RO 14.50 - 15.00	0% 0% 0%						14.00					
												14.50					
										End of Exploratory Hole at 15.00m		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	15.00	Air	Grey	100%	15.00	115mm	7.50	115mm									
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks Rotary open hole from GL to 15.00m																	
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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	SOP001.18		
										Project		Global Centre of Rail Excellence					Equipment
Client		Walters UK Limited			Method		RO			Scale 1:50							
Project No		G22069		Level		237.64 mAOD		Inclination		90 degrees		Drilled LG					
Easting		284852.57		Northing		210629.55		SPT Hammer Serial Number				Logged LG					
Termination Reason		Terminated due to 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	
	11.50		PID: 0.0ppmv			RO 10.00 - 11.50	0% 0% 0%	(6.00)	222.64		NO RECOVERY. Hard to moderately strong grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES) Geology Code: SWCM 2nd Geology Code: MST				10.50		
	13.00		PID: 0.0ppmv			RO 11.50 - 13.00	0% 0% 0%								11.00		
	14.50		PID: 0.0ppmv			RO 13.00 - 14.50	0% 0% 0%								11.50		
	15.00		PID: 0.0ppmv			RO 14.50 - 15.00	0% 0% 0%								12.00		
															12.50		
											End of Exploratory Hole at 15.00m				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	15.00	Air	Grey	100%	15.00	115mm	7.50	115mm									
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks Rotary open hole from GL to 15.00m																	

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Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	SOP001.19 Sheet 2 of 2 Scale 1:50 Drilled LG Logged LG 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	15.00	Air	Grey	100%	15.00	115mm	7.50	115mm									
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00		

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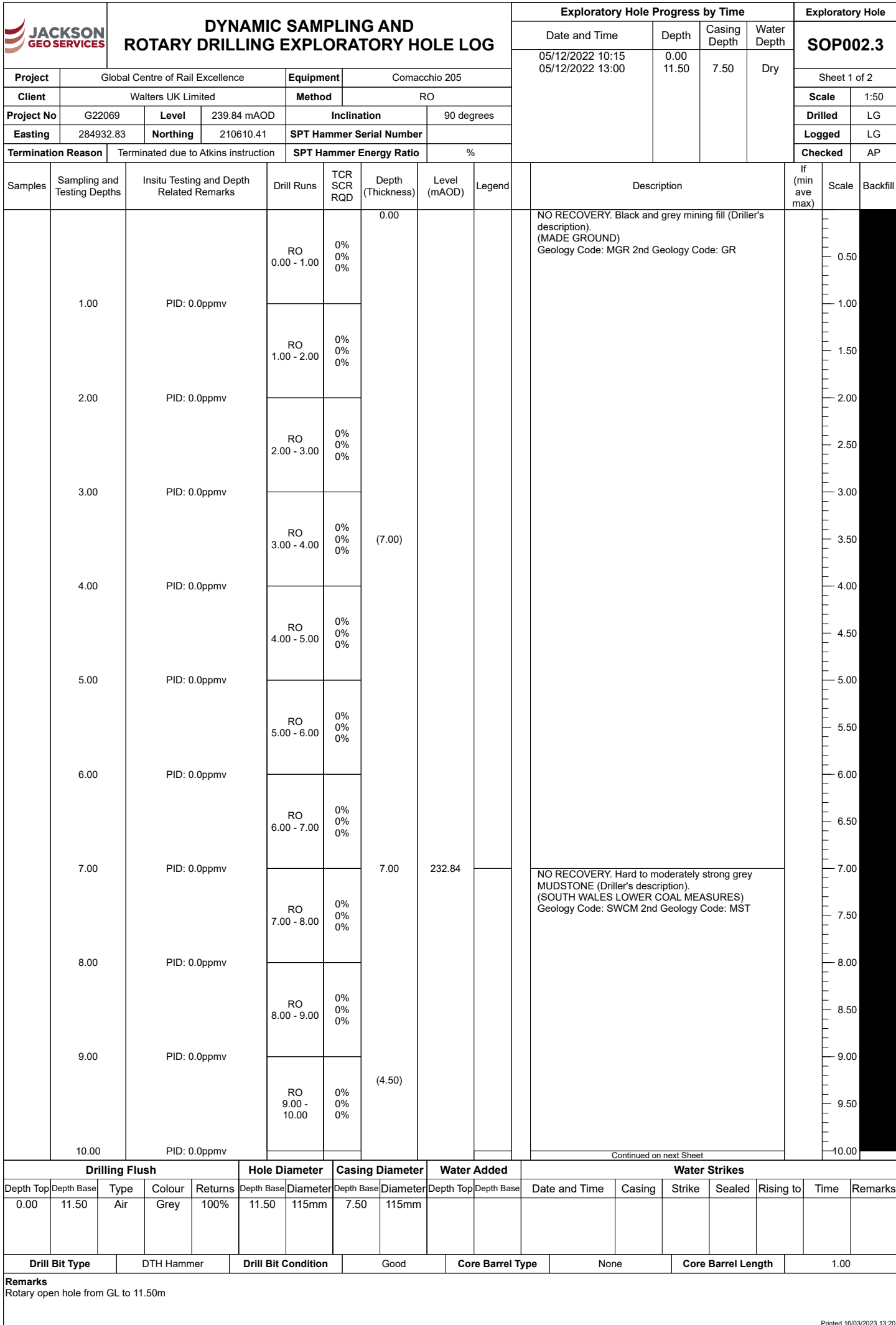
Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	SOP002.1	
28/11/2022 13:00	0.00				
28/11/2022 16:00	7.50	7.50	Dry	Sheet 1 of 2	
29/11/2022 08:00	7.50	7.50	Dry	Scale	1:50
29/11/2022 12:00	20.00	7.00	Dry	Drilled	LG
				Logged	LG
				Checked	AP

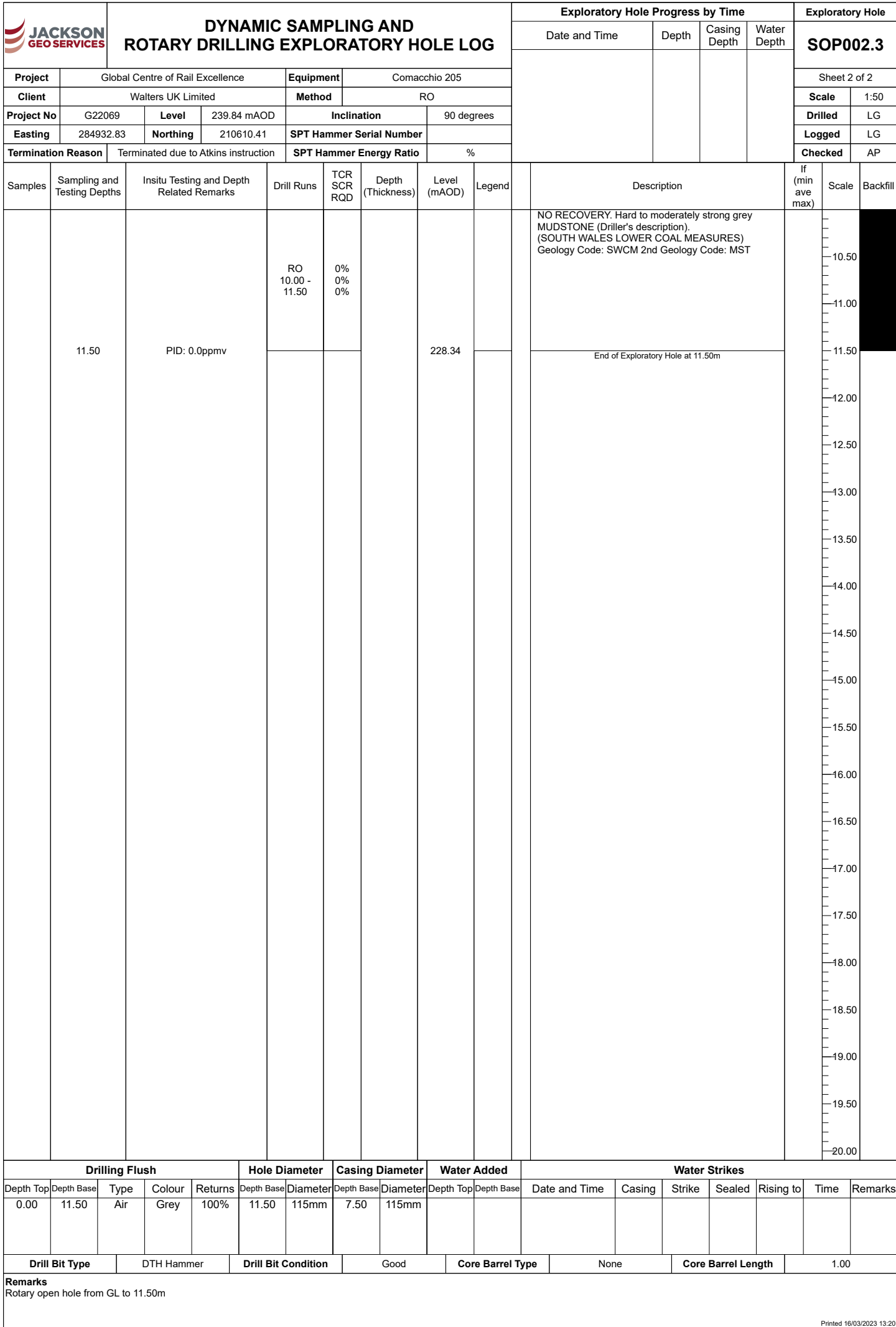
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	20.00	Air	Grey/ Black	100%	20.00	115mm	7.50	115mm									
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00		

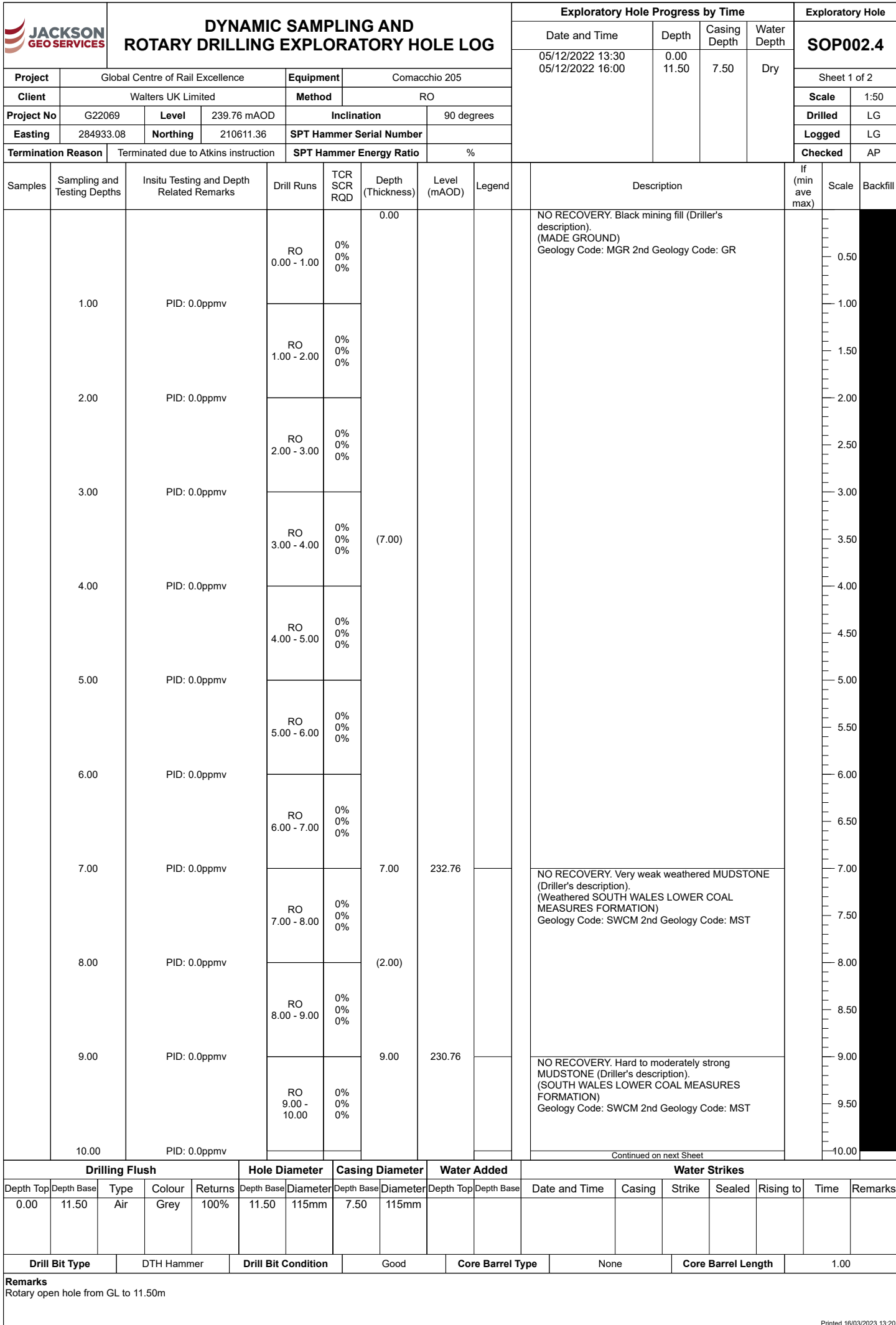
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		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP002.1				
Project		Global Centre of Rail Excellence		Equipment		Comacchio 205				Sheet 2 of 2							
Client		Walters UK Limited		Method		RO				Scale	1:50						
Project No		G22069		Level		239.81 mAOD		Inclination		0 degrees							
Easting		284934.05		Northing		210611.12		SPT Hammer Serial Number		LG							
Termination Reason		Terminated due to 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				
	11.50	PID: 0.0ppmv		RO 10.00 - 11.50	0% 0% 0%				NO RECOVERY. Hard dark grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES) Geology Code: SWCM 2nd Geology Code: MST		10.50						
											11.00						
											11.50						
	13.00	PID: 0.0ppmv		RO 11.50 - 13.00	0% 0% 0%						12.00						
											12.50						
											13.00						
	14.50	PID: 0.0ppmv		RO 13.00 - 14.50	0% 0% 0%	(11.00)					13.50						
											14.00						
	16.00	PID: 0.0ppmv		RO 14.50 - 16.00	0% 0% 0%						14.50						
											15.00						
										15.50							
	17.50	PID: 0.0ppmv		RO 16.00 - 17.50	0% 0% 0%					16.00							
										16.50							
										17.00							
	19.00	PID: 0.0ppmv		RO 17.50 - 19.00	0% 0% 0%					17.50							
										18.00							
										18.50							
	20.00	PID: 0.0ppmv		RO 19.00 - 20.00	0% 0% 0%		219.81			19.00							
										19.50							
										20.00							
End of Exploratory Hole at 20.00m																	
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	20.00	Air	Grey/Black	100%	20.00	115mm	7.50	115mm									
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks Rotary open hole 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	SOP002.2		
										Project		Global Centre of Rail Excellence					Equipment
Client		Walters UK Limited			Method		RO			Scale 1:50							
Project No		G22069		Level		239.85 mAOD		Inclination		90 degrees		Drilled LG					
Easting		284933.85		Northing		210610.19		SPT Hammer Serial Number				Logged LG					
Termination Reason		Terminated due to 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		
	11.50	PID: 0.0ppmv			RO 10.00 - 11.50	0% 0% 0%	(6.00)	224.85		NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST				10.50			
														11.00			
														11.50			
	13.00	PID: 0.0ppmv			RO 11.50 - 13.00	0% 0% 0%				End of Exploratory Hole at 15.00m				12.00			
							12.50										
							13.00										
	15.00	PID: 0.0ppmv			RO 13.00 - 15.00	0% 0% 0%								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	15.00	Air	Grey/Black	100%	15.00	115mm	7.00	115mm									
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks Rotary open hole from GL to 15.00m																	







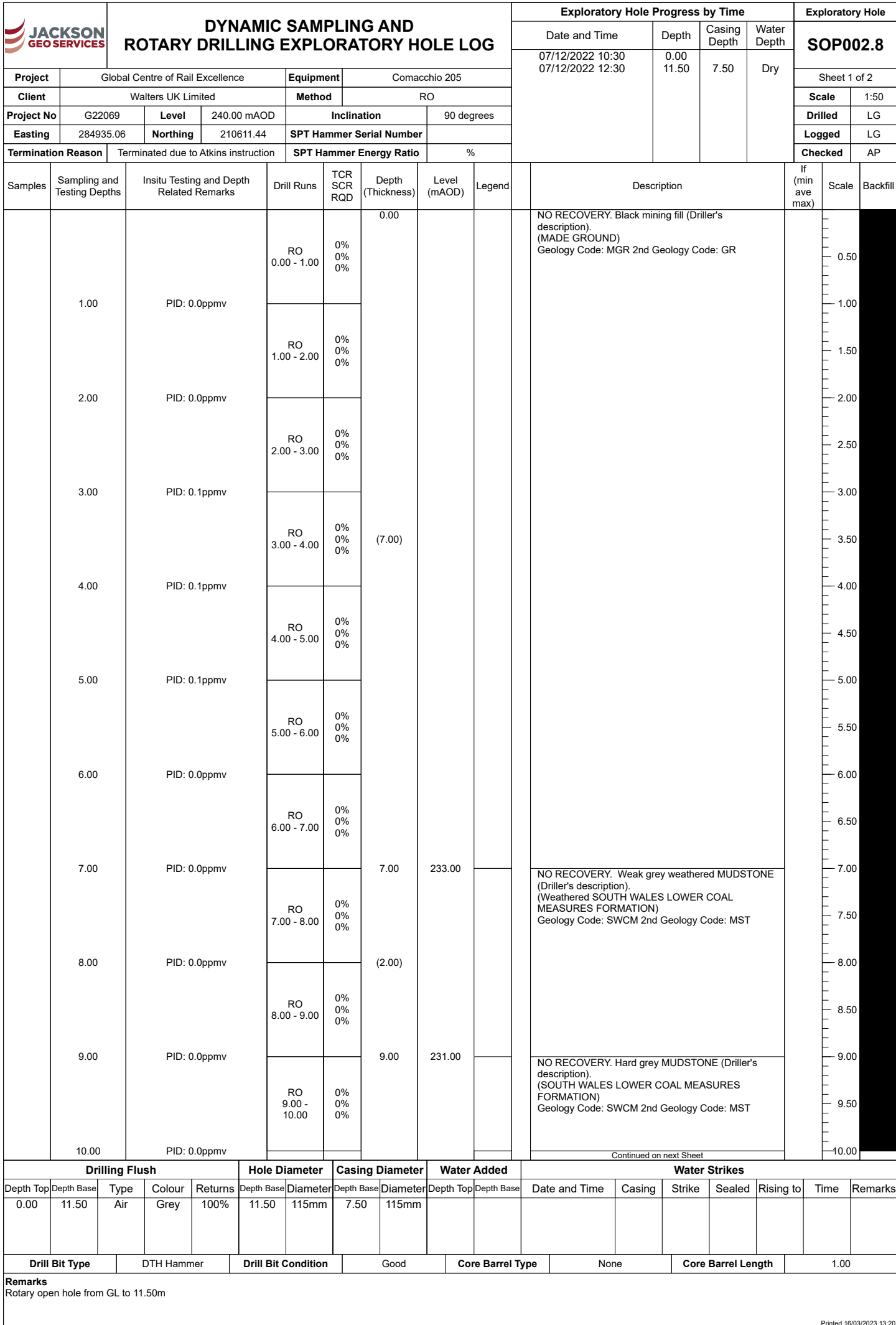
		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG										Exploratory Hole Progress by Time					Exploratory Hole	
												Date and Time		Depth	Casing Depth	Water Depth	SOP002.4	
Project		Global Centre of Rail Excellence				Equipment		Comacchio 205				Sheet 2 of 2						
Client		Walters UK Limited				Method		RO				Scale	1:50					
Project No		G22069		Level		239.76 mAOD		Inclination		90 degrees		Drilled	LG					
Easting		284933.08		Northing		210611.36		SPT Hammer Serial Number				Logged	LG					
Termination Reason		Terminated due to 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			
	11.50	PID: 0.0ppmv				RO 10.00 - 11.50	0% 0% 0%	(2.50)	228.26		NO RECOVERY. Hard to moderately strong MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST			10.50				
											End of Exploratory Hole at 11.50m			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	11.50	Air	Grey	100%	11.50	115mm	7.50	115mm										
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00				
Remarks Rotary open hole from GL to 11.50m																		

		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG								Exploratory Hole Progress by Time					Exploratory Hole		
										Date and Time		Depth	Casing Depth	Water Depth	SOP002.5		
Project		Global Centre of Rail Excellence			Equipment		Comacchio 205			Sheet 2 of 2							
Client		Walters UK Limited			Method		RO			Scale	1:50						
Project No		G22069		Level	239.80 mAOD		Inclination		90 degrees		Drilled	LG					
Easting		284933.29		Northing	210612.48		SPT Hammer Serial Number				Logged	LG					
Termination Reason		Terminated due to 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			
	11.50	PID: 0.0ppmv			RO 10.00 - 11.50	0% 0% 0%	(2.50)	228.30		NO RECOVERY. Hard to moderately strong MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST			10.50				
										End of Exploratory Hole at 11.50m			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	11.50	Air	Grey	100%	11.50	115mm	7.50	115mm									
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks Rotary open hole from GL to 11.50m																	

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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	SOP002.6		
Project		Global Centre of Rail Excellence				Equipment		Comacchio 205				Sheet 2 of 2					
Client		Walters UK Limited				Method		RO				Scale	1:50				
Project No		G22069		Level		239.86 mAOD		Inclination		90 degrees		Drilled	LG				
Easting		284934.36		Northing		210612.47		SPT Hammer Serial Number				Logged	LG				
Termination Reason		Terminated due to 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		
	11.50	PID: 0.0ppmv				RO 10.00 - 11.50	0% 0% 0%	(2.50)	228.36		NO RECOVERY. Moderately strong to hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST			10.50			
											End of Exploratory Hole at 11.50m			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	11.50	Air	Grey	100%	11.50	115mm	7.50	115mm									
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks Rotary open hole from GL to 11.50m																	
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Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	SOP002.9	
07/12/2022 13:30 07/12/2022 14:30	0.00 11.50	7.50	Dry		
				Sheet 1 of 2	
				Scale	1:50
				Drilled	LG
				Logged	LG
				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	11.50	Air	Grey	100%	11.50	115mm	7.50	115mm									
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			

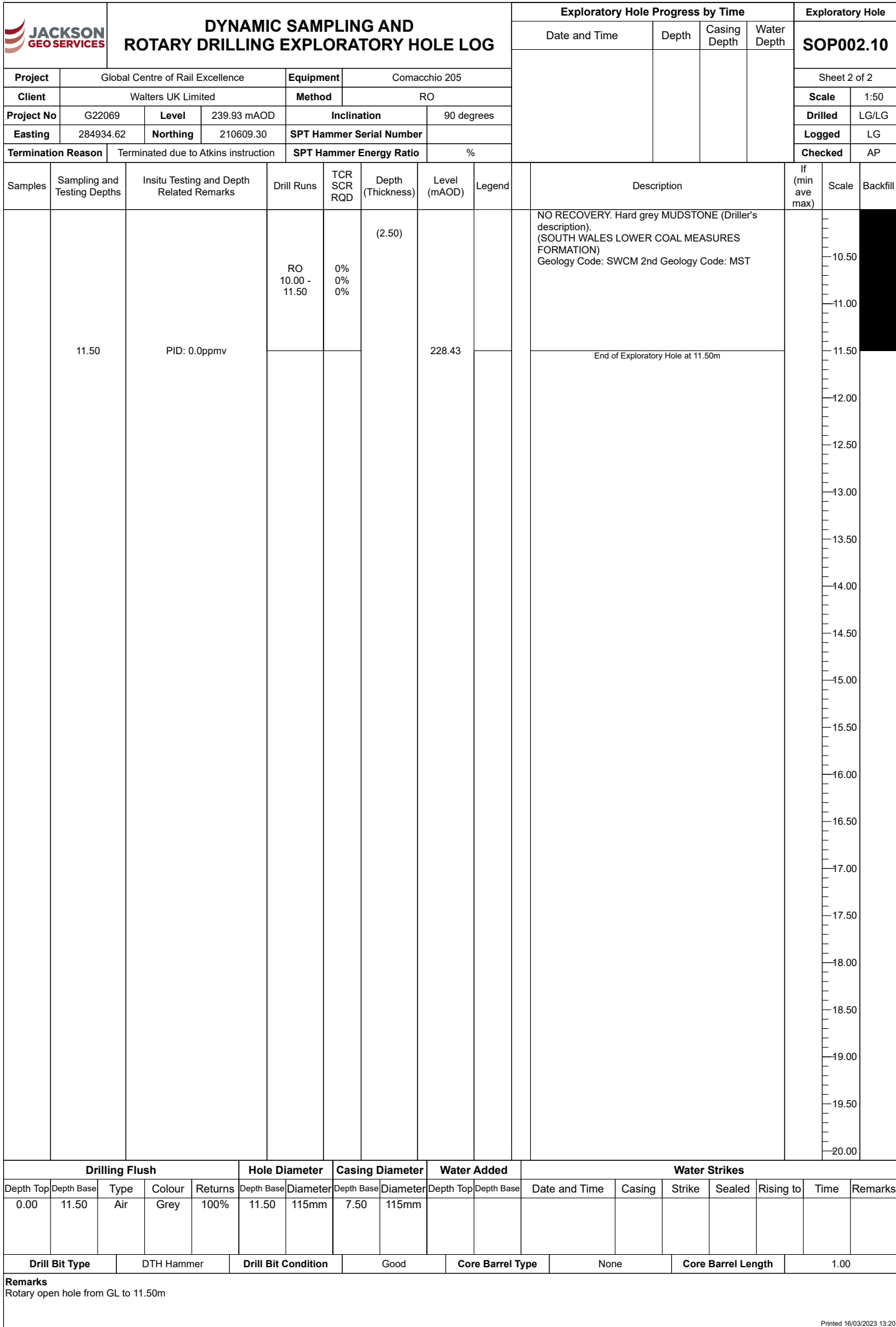
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Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	SOP002.10	
07/12/2022 15:00	0.00				
07/12/2022 16:00	3.00	3.00	Dry	Sheet 1 of 2	
08/12/2022 08:00	3.00	3.00	Dry	Scale	1:50
08/12/2022 10:38	11.50	7.50	Dry	Drilled	LG/LG
				Logged	LG
				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	11.50	Air	Grey	100%	11.50	115mm	7.50	115mm									
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00		

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Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks	Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend
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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	11.50	Air	Grey	100%	11.50	115mm	7.50	115mm									
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00		

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Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	SOP002.12	
08/12/2022 12:15 08/12/2022 14:15	0.00 11.50	7.50	Dry		
				Sheet 1 of 2	
				Scale	1:50
				Drilled	LG
				Logged	LG
				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	11.50	Air	Grey	100%	11.50	115mm	7.50	115mm									
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00		

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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	SOP002.12		
Project		Global Centre of Rail Excellence				Equipment		Comacchio 205				Sheet 2 of 2					
Client		Walters UK Limited				Method		RO				Scale	1:50				
Project No		G22069		Level		239.80 mAOD		Inclination		90 degrees		Drilled	LG				
Easting		284932.45		Northing		210609.84		SPT Hammer Serial Number				Logged	LG				
Termination Reason		Terminated due to Atkins request				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		
	11.50	PID: 0.0ppmv				RO 10.00 - 11.50	0% 0% 0%	(2.50)	228.30		NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST			10.50			
											End of Exploratory Hole at 11.50m			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	11.50	Air	Grey	100%	11.50	115mm	7.50	115mm									
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00		
Remarks Rotary open hole from GL to 11.50m																	

		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP002.13				
								08/12/2022 14:30 08/12/2022 16:00 09/12/2022 08:00 09/12/2022 10:45		0.00 6.50 6.50 11.50	6.50 6.50 7.50	Dry Dry Dry					
Project		Global Centre of Rail Excellence			Equipment		Comacchio 205			Sheet 1 of 2							
Client		Walters UK Limited			Method		RO			Scale 1:50							
Project No		G22069		Level		239.74 mAOD		Inclination		90 degrees							
Easting		284931.63		Northing		210610.00		SPT Hammer Serial Number		LG							
Termination Reason		Terminated due to 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			
	1.00	PID: 0.0ppmv			RO 0.00 - 1.00	0% 0% 0%	0.00			NO RECOVERY. Black mining fill (Driller's description). (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR			0.50				
	2.00	PID: 0.0ppmv			RO 1.00 - 2.00	0% 0% 0%							1.00				
	3.00	PID: 0.0ppmv			RO 2.00 - 3.00	0% 0% 0%							1.50				
	4.00	PID: 0.1ppmv			RO 3.00 - 4.00	0% 0% 0%							2.00				
	5.00	PID: 0.0ppmv			RO 4.00 - 5.00	0% 0% 0%							2.50				
	6.00	PID: 0.0ppmv			RO 5.00 - 6.00	0% 0% 0%							3.00				
	7.00				RO 6.00 - 7.00	0% 0% 0%	7.00	232.74		NO RECOVERY. Weak grey weathered MUDSTONE (Driller's description). (Weathered SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST			3.50				
	8.00	PID: 0.0ppmv			RO 7.00 - 8.00	0% 0% 0%							(2.00)	4.00			
	9.00	PID: 0.0ppmv			RO 8.00 - 9.00	0% 0% 0%							4.50				
	10.00	PID: 0.0ppmv			RO 9.00 - 10.00	0% 0% 0%	9.00	230.74		NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST			5.00				
													5.50				
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	11.50	Air	Grey	100%	11.50	115mm	7.50	115mm									
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks Rotary open hole from GL to 11.50m																	
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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	SOP002.14				
								09/12/2022 11:00 09/12/2022 12:56		0.00 11.50	7.50	Dry					
								09/12/2022 11:00 09/12/2022 12:56		0.00 11.50	7.50	Dry					
Project	Global Centre of Rail Excellence			Equipment	Comacchio 205			Sheet 1 of 2									
Client	Walters UK Limited			Method	RO			Scale	1:50								
Project No	G22069	Level	239.77 mAOD	Inclination	90 degrees			Drilled	LG								
Easting	284931.65	Northing	210611.00	SPT Hammer Serial Number				Logged	LG								
Termination Reason	Terminated due to 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					
	1.00	PID: 0.0ppmv		RO 0.00 - 1.00	0% 0% 0%	0.00			NO RECOVERY. Black mining fill (Driller's description). (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR		0.50						
	2.00	PID: 0.1ppmv		RO 1.00 - 2.00	0% 0% 0%						1.00						
	3.00	PID: 0.0ppmv		RO 2.00 - 3.00	0% 0% 0%						1.50						
	4.00	PID: 0.0ppmv		RO 3.00 - 4.00	0% 0% 0%						2.00						
	5.00	PID: 0.0ppmv		RO 4.00 - 5.00	0% 0% 0%						2.50						
	6.00	PID: 0.0ppmv		RO 5.00 - 6.00	0% 0% 0%						3.00						
	7.00	PID: 0.0ppmv		RO 6.00 - 7.00	0% 0% 0%						3.50						
	8.00	PID: 0.0ppmv		RO 7.00 - 8.00	0% 0% 0%	(7.00)	232.77	NO RECOVERY. Weak grey weathered MUDSTONE (Driller's description). (Weathered SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST		4.00							
	9.00	PID: 0.0ppmv		RO 8.00 - 9.00	0% 0% 0%	4.50											
	10.00	PID: 0.0ppmv		RO 9.00 - 10.00	0% 0% 0%	5.00											
						7.00	230.77	NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST		5.50							
						(2.00)				6.00							
						9.00				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	11.50	Air	Grey	100%	11.50	115mm	7.50	115mm									
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks Rotary open hole from GL to 11.50m																	
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Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	SOP002.15	
09/12/2022 13:00 09/12/2022 15:30	0.00 11.50	7.50	Dry		
				Sheet 1 of 2	
				Scale	1:50
				Drilled	LG
				Logged	LG
				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	11.50	Air	Grey	100%	11.50	115mm	7.50	115mm									
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			

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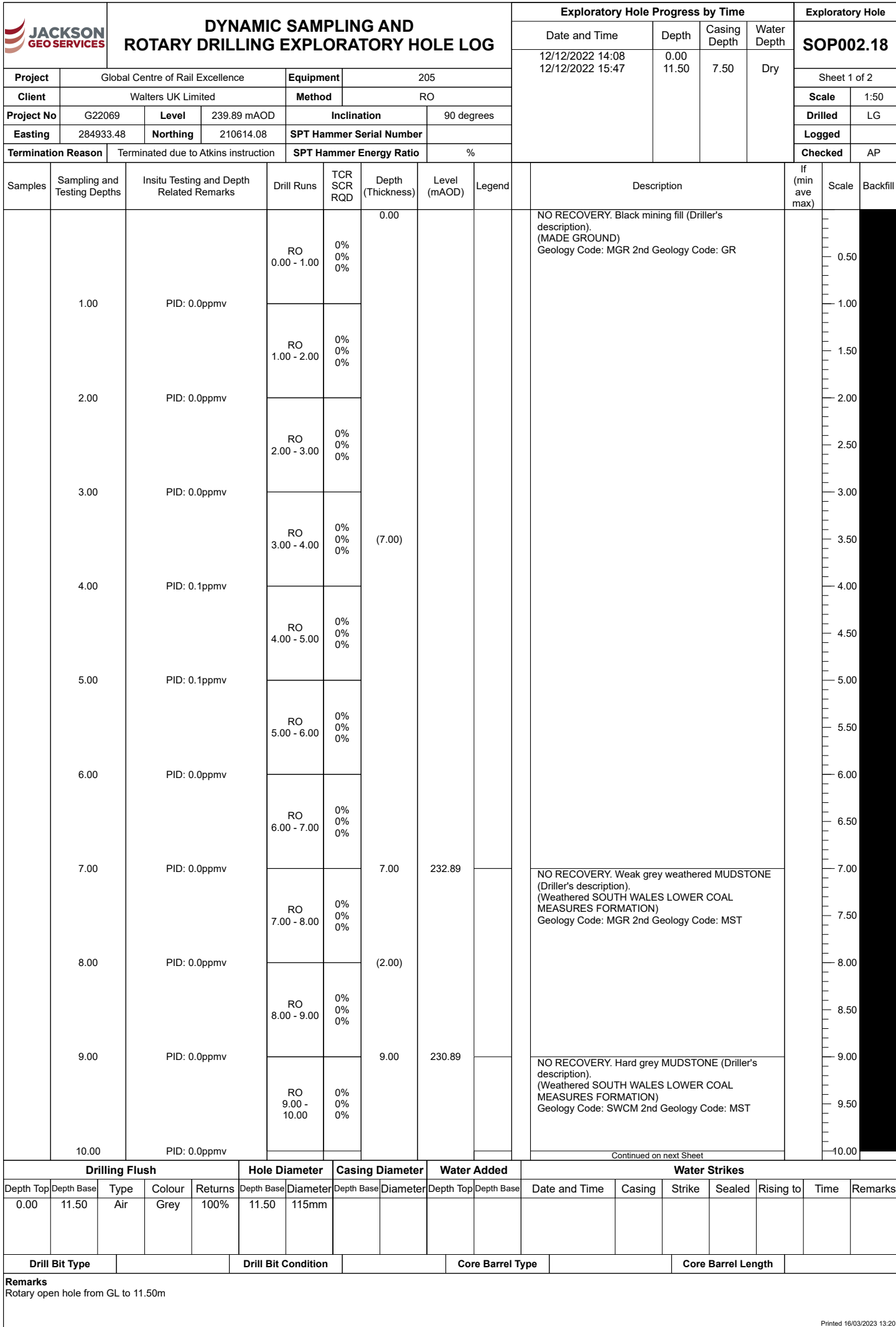
		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG								Exploratory Hole Progress by Time				Exploratory Hole			
										Date and Time		Depth	Casing Depth	Water Depth	SOP002.15		
Project		Global Centre of Rail Excellence				Equipment		Comacchio 205				Sheet 2 of 2					
Client		Walters UK Limited				Method		RO				Scale	1:50				
Project No		G22069		Level		239.76 mAOD		Inclination		90 degrees		Drilled	LG				
Easting		284931.93		Northing		210612.16		SPT Hammer Serial Number				Logged	LG				
Termination Reason		Terminated due to 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		
	11.50	PID: 0.0ppmv				RO 10.00 - 11.50	0% 0% 0%	(2.50)	228.26		NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST			10.50			
											End of Exploratory Hole at 11.50m			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	11.50	Air	Grey	100%	11.50	115mm	7.50	115mm									
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00		
Remarks Rotary open hole from GL to 11.50m																	

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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	SOP002.16					
													Sheet 2 of 2					
													Scale 1:50					
Project		Global Centre of Rail Excellence			Equipment		205			Drilled		LG						
Client		Walters UK Limited			Method		RO			Logged								
Project No		G22069		Level		239.84 mAOD		Inclination		90 degrees		Checked		AP				
Easting		284932.11		Northing		210613.15		SPT Hammer Serial Number										
Termination Reason		Terminated due to Atkins instruction			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			
	11.50	PID: 0.0ppmv			RO 10.00 - 11.50	0% 0% 0%	(2.50)	228.34		NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST				10.50				
										End of Exploratory Hole at 11.50m				11.00				
														11.50				
														12.00				
														12.50				
														13.00				
														13.50				
														14.00				
														14.50				
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														16.00				
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														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	11.50	Air	Grey	100%	11.50	115mm	7.50	115mm										
Drill Bit Type					Drill Bit Condition					Core Barrel Type					Core Barrel Length			
Remarks																		
Rotary open hole from GL to 11.50m																		
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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		SOP002.17			
																						Sheet 2 of 2			
												Scale		1:50		Drilled		LG		Logged					
												Checked		AP											
Project		Global Centre of Rail Excellence				Equipment		205																	
Client		Walters UK Limited				Method		RO																	
Project No		G22069		Level		239.85 mAOD		Inclination				90 degrees													
Easting		284932.34		Northing		210614.12		SPT Hammer Serial Number																	
Termination Reason		Terminated due to Atkins instruction				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							
	11.50		PID: 0.0ppmv			RO 10.00 - 11.50	0% 0% 0%	(2.50)	228.35		NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST														
											End of Exploratory Hole at 11.50m														



		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG								Exploratory Hole Progress by Time				Exploratory Hole				
										Date and Time		Depth	Casing Depth	Water Depth	SOP002.18			
										Project		Global Centre of Rail Excellence					Equipment	
Client		Walters UK Limited			Method		RO			Scale 1:50								
Project No		G22069		Level		239.89 mAOD		Inclination		90 degrees		Drilled LG						
Easting		284933.48		Northing		210614.08		SPT Hammer Serial Number				Logged						
Termination Reason		Terminated due to 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			
	11.50	PID: 0.0ppmv			RO 10.00 - 11.50	0% 0% 0%	(2.50)	228.39		NO RECOVERY. Hard grey MUDSTONE (Driller's description). (Weathered SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST				10.50				
										End of Exploratory Hole at 11.50m				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	11.50	Air	Grey	100%	11.50	115mm												
Drill Bit Type					Drill Bit Condition					Core Barrel Type					Core Barrel Length			
Remarks Rotary open hole from GL to 11.50m																		
Printed 16/03/2023 13:20																		

		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP002.19				
								12/12/2022 16:13		0.00							
								12/12/2022 16:24		6.00	0.00	Dry					
13/12/2022 08:30		6.00	0.00	Dry													
13/12/2022 10:00		11.50	7.50	Dry													
Project		Global Centre of Rail Excellence			Equipment		205				Sheet 1 of 2						
Client		Walters UK Limited			Method		RO				Scale		1:50				
Project No		G22069		Level	239.98 mAOD		Inclination		90 degrees		Drilled		LG				
Easting		284934.36		Northing	210613.85		SPT Hammer Serial Number				Logged						
Termination Reason		Terminated due to 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		
	1.00	PID: 0.0ppmv	RO 0.00 - 1.00	0% 0% 0%	0.00					NO RECOVERY. Black mining fill (Driller's description). (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR				0.50			
	2.00	PID: 0.0ppmv	RO 1.00 - 2.00	0% 0% 0%										1.00			
	3.00	PID: 0.0ppmv	RO 2.00 - 3.00	0% 0% 0%										1.50			
	4.00	PID: 0.0ppmv	RO 3.00 - 4.00	0% 0% 0%	(7.00)									2.00			
	5.00	PID: 0.0ppmv	RO 4.00 - 5.00	0% 0% 0%										2.50			
	6.00	PID: 0.0ppmv	RO 5.00 - 6.00	0% 0% 0%										3.00			
	7.00	PID: 0.0ppmv	RO 6.00 - 7.00	0% 0% 0%										3.50			
	8.00	PID: 0.0ppmv	RO 7.00 - 8.00	0% 0% 0%	(2.00)					NO RECOVERY. Weak grey weathered MUDSTONE (Driller's description). (Weathered SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST				4.00			
	9.00	PID: 0.0ppmv	RO 8.00 - 9.00	0% 0% 0%										4.50			
	10.00	PID: 0.0ppmv	RO 9.00 - 10.00	0% 0% 0%	9.00	230.98				NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST				5.00			
										Continued on next Sheet				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	11.50	Air	grey	100%	11.50	115mm	7.50	115mm									
Drill Bit Type					Drill Bit Condition					Core Barrel Type					Core Barrel Length		
Remarks																	
Rotary open hole from GL to 11.50m																	
Printed 16/03/2023 13:20																	

		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG										Exploratory Hole Progress by Time							Exploratory Hole	
												Date and Time			Depth	Casing Depth	Water Depth	SOP002.19		
																			Sheet 2 of 2	
												Scale		1:50						
												Drilled		LG						
Project		Global Centre of Rail Excellence				Equipment		205				Logged								
Client		Walters UK Limited				Method		RO				Checked		AP						
Project No		G22069		Level		239.98 mAOD		Inclination			90 degrees									
Easting		284934.36		Northing		210613.85		SPT Hammer Serial Number												
Termination Reason		Terminated due to Atkins instruction				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			
	11.50	PID: 0.0ppmv				RO 10.00 - 11.50	0% 0% 0%	(2.50)	228.48		NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST					10.50				
											End of Exploratory Hole at 11.50m					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	11.50	Air	grey	100%	11.50	115mm	7.50	115mm												
Drill Bit Type					Drill Bit Condition					Core Barrel Type					Core Barrel Length					
Remarks																				
Rotary open hole from GL to 11.50m																				

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Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	SOP002.20	
13/12/2022 11:22	0.00	0.00	Dry		
13/12/2022 14:02	11.50	7.50			
Sheet 1 of 2					
Scale				1:50	
Drilled				LG	
Logged			LG		
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	11.50	Air	grey	100%	11.50	115mm	7.50	115mm									
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00		

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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	SOP002.21				
								13/12/2022 14:06 13/12/2022 15:45		0.00 11.50	0.00 7.50	Dry					
								13/12/2022 14:06 13/12/2022 15:45		0.00 11.50	0.00 7.50	Dry					
Project		Global Centre of Rail Excellence				Equipment		205		Sheet 1 of 2							
Client		Walters UK Limited				Method		RO		Scale 1:50							
Project No		G22069		Level		240.10 mAOD		Inclination		90 degrees							
Easting		284936.47		Northing		210613.44		SPT Hammer Serial Number		LG							
Termination Reason		Terminated due to 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			
	1.00	PID: 0.0ppmv				RO 0.00 - 1.00	0% 0% 0%	0.00			NO RECOVERY. Black mining fill (Driller's description). (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR		0.50				
	2.00	PID: 0.0ppmv				RO 1.00 - 2.00	0% 0% 0%						1.00				
	3.00	PID: 0.0ppmv				RO 2.00 - 3.00	0% 0% 0%						1.50				
	4.00	PID: 0.0ppmv				RO 3.00 - 4.00	0% 0% 0%	(7.00)					2.00				
	5.00	PID: 0.0ppmv				RO 4.00 - 5.00	0% 0% 0%						2.50				
	6.00	PID: 0.0ppmv				RO 5.00 - 6.00	0% 0% 0%						3.00				
	7.00	PID: 0.0ppmv				RO 6.00 - 7.00	0% 0% 0%						3.50				
	8.00	PID: 0.0ppmv				RO 7.00 - 8.00	0% 0% 0%	7.00	233.10		NO RECOVERY. Weak grey weathered MUDSTONE (Driller's description). (Weathered SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST		4.00				
	9.00	PID: 0.0ppmv				RO 8.00 - 9.00	0% 0% 0%	(2.00)					4.50				
	10.00	PID: 0.0ppmv				RO 9.00 - 10.00	0% 0% 0%	9.00	231.10		NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST		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	11.50	Air	grey	100%	11.50	115mm	7.50	115mm									
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00		
Remarks Rotary open hole from GL to 11.50m																	
Printed 16/03/2023 13:20																	

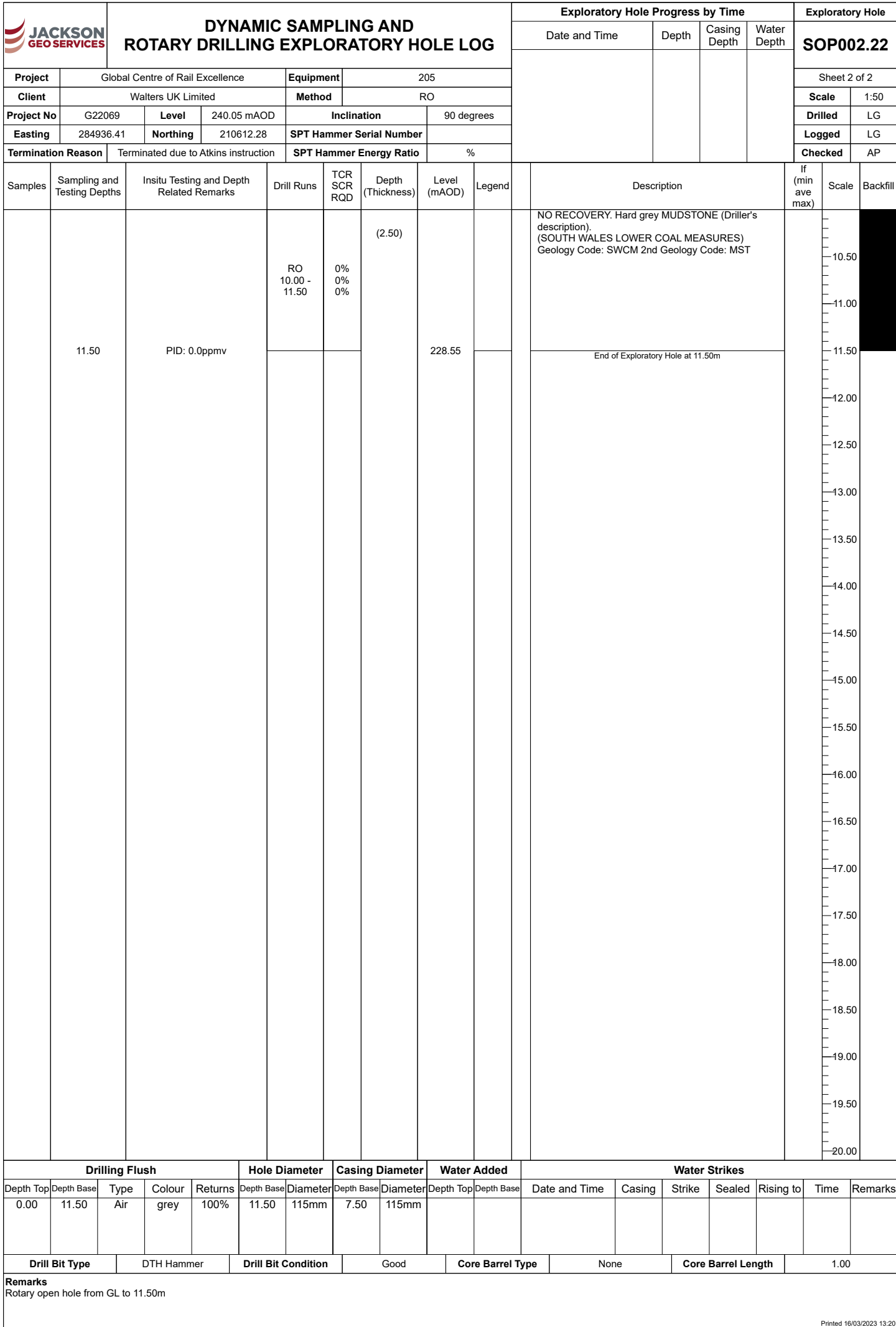
		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG								Exploratory Hole Progress by Time				Exploratory Hole			
										Date and Time		Depth	Casing Depth	Water Depth	SOP002.21		
Project		Global Centre of Rail Excellence				Equipment		205				Sheet 2 of 2					
Client		Walters UK Limited				Method		RO				Scale	1:50				
Project No		G22069		Level		240.10 mAOD		Inclination		90 degrees		Drilled	LG				
Easting		284936.47		Northing		210613.44		SPT Hammer Serial Number				Logged	LG				
Termination Reason		Terminated due to 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		
	11.50	PID: 0.0ppmv				RO 10.00 - 11.50	0% 0% 0%	(2.50)	228.60		NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST			10.50			
											End of Exploratory Hole at 11.50m			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	11.50	Air	grey	100%	11.50	115mm	7.50	115mm									
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks Rotary open hole from GL to 11.50m																	

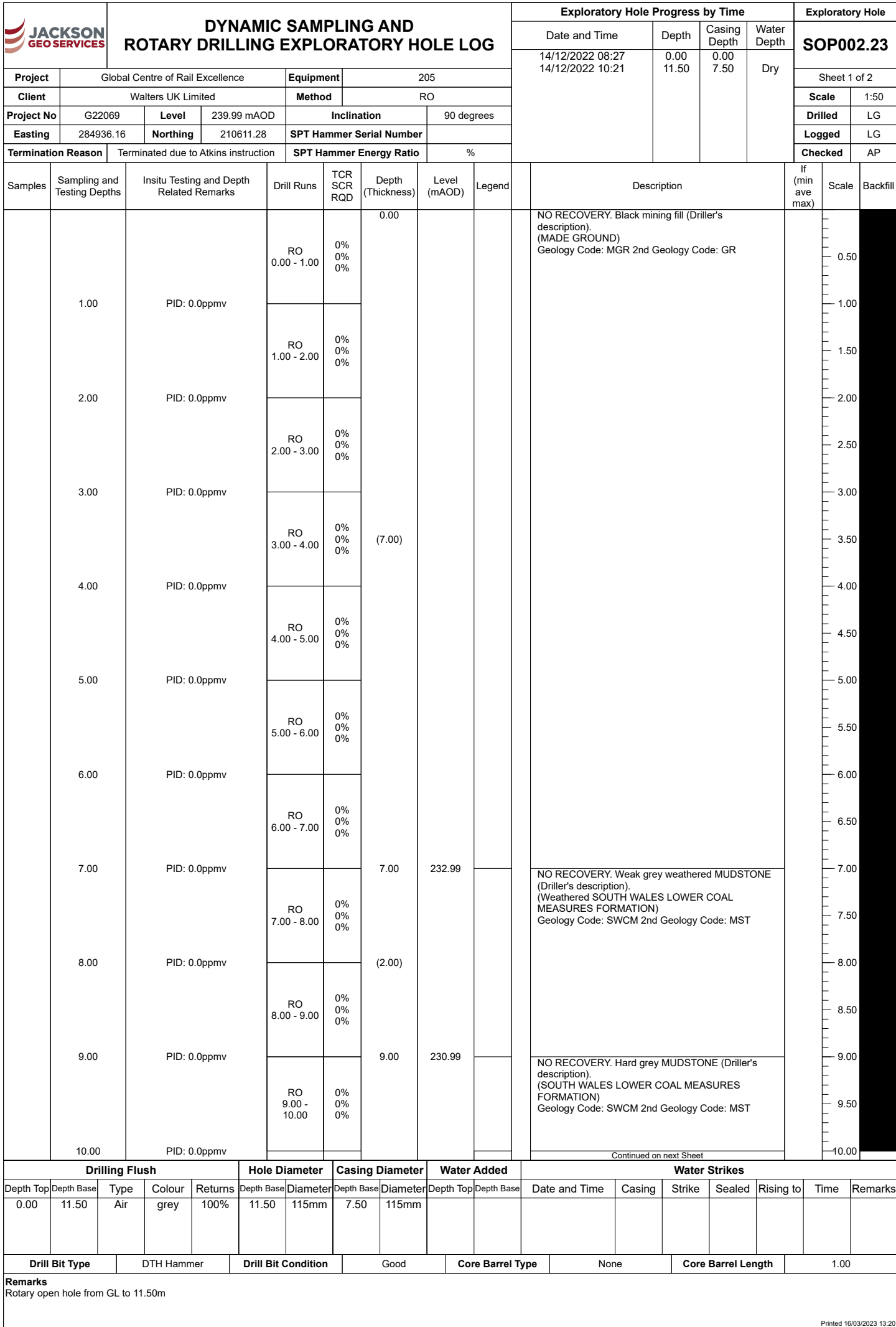


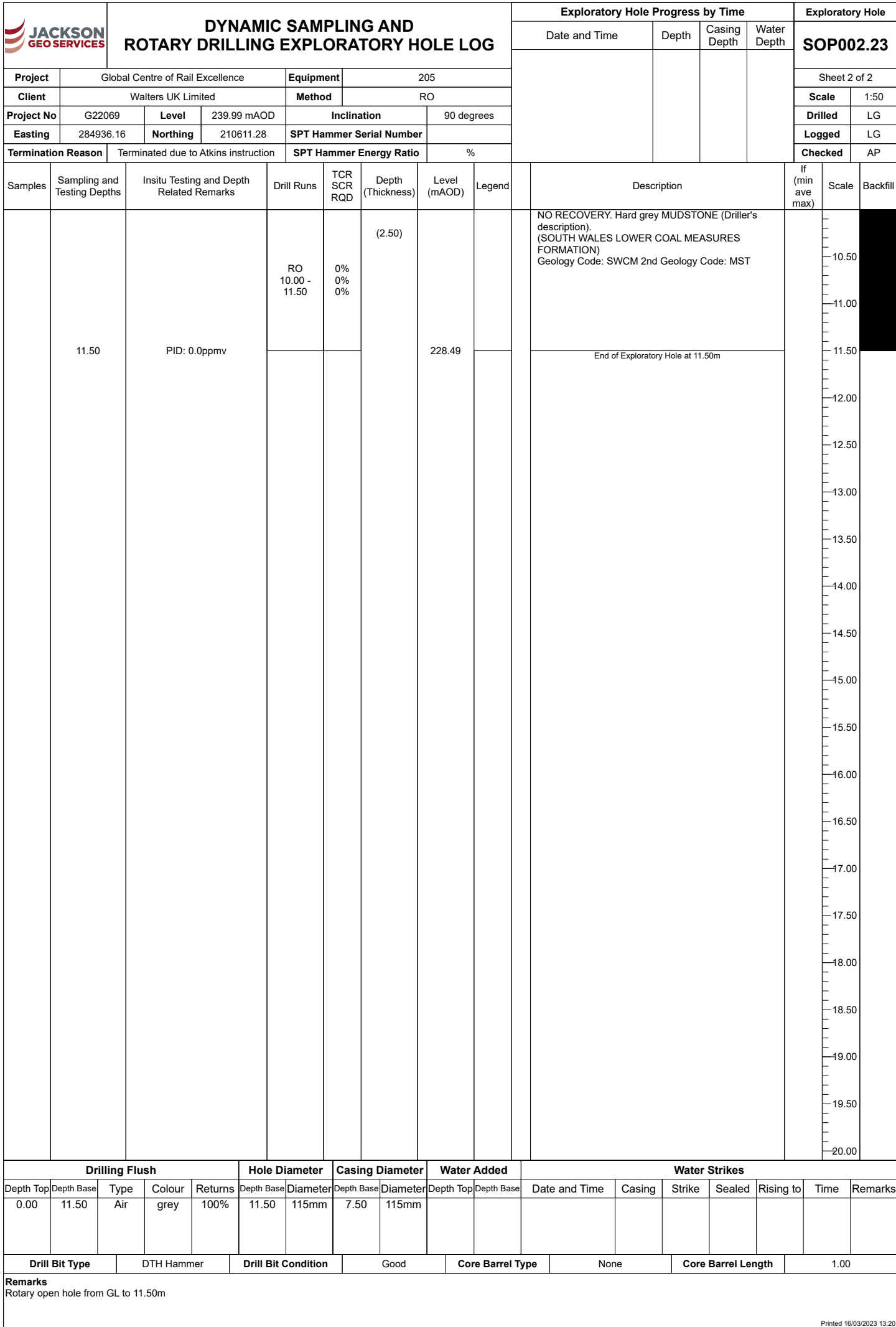
Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time		Depth	Casing Depth	Water Depth	SOP002.22
13/12/2022 15:48		0.00	0.00	Dry	
13/12/2022 16:56		11.50	7.50		
Sheet 1 of 2					
Scale		1:50			
Drilled		LG			
Logged		LG			
Checked		AP			

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	11.50	Air	grey	100%	11.50	115mm	7.50	115mm									
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None			Core Barrel Length		1.00	

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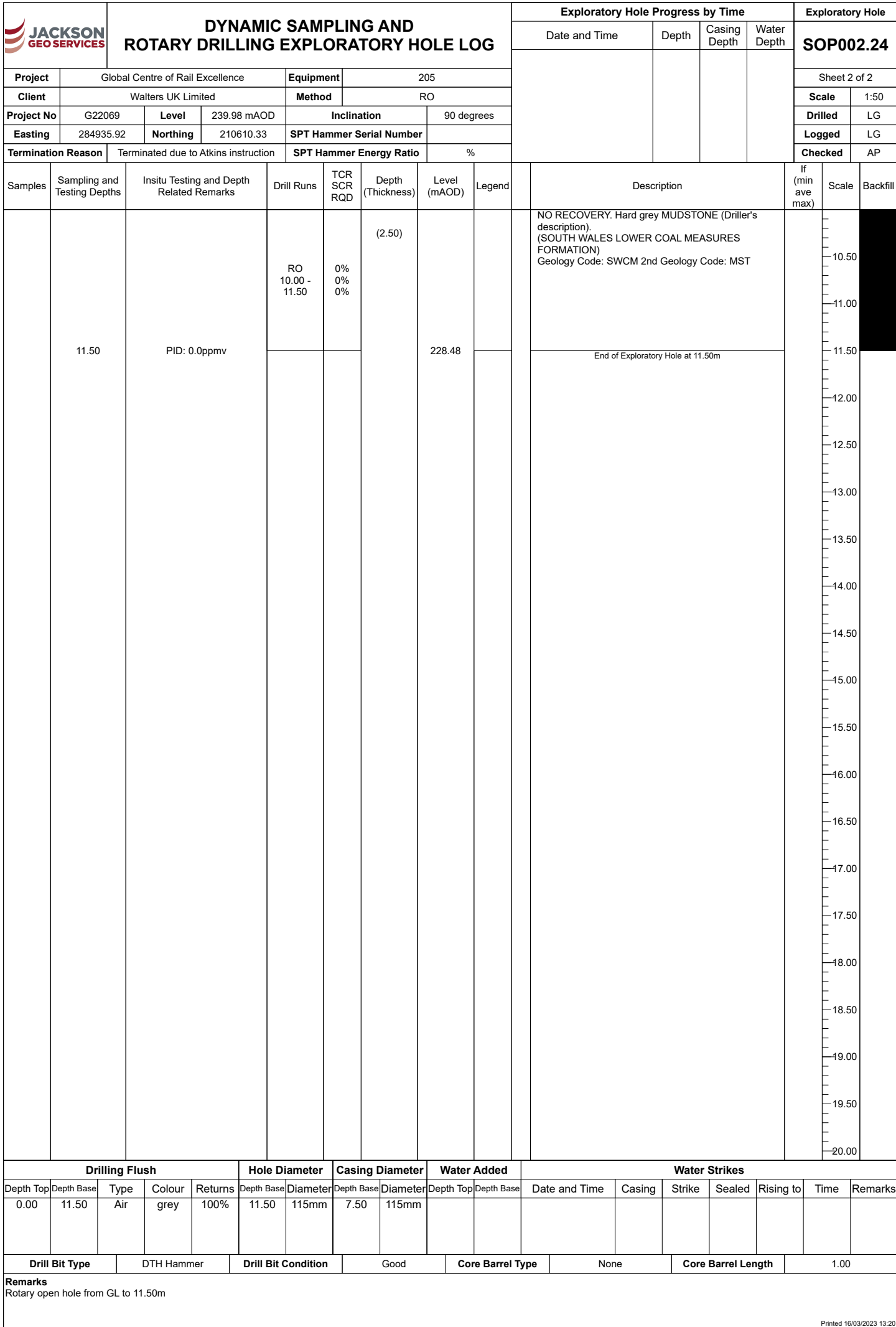


SOP002.24

If min	Costs	Reck-f
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lf min	Coals	Boards
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lf min	Coals	Boards
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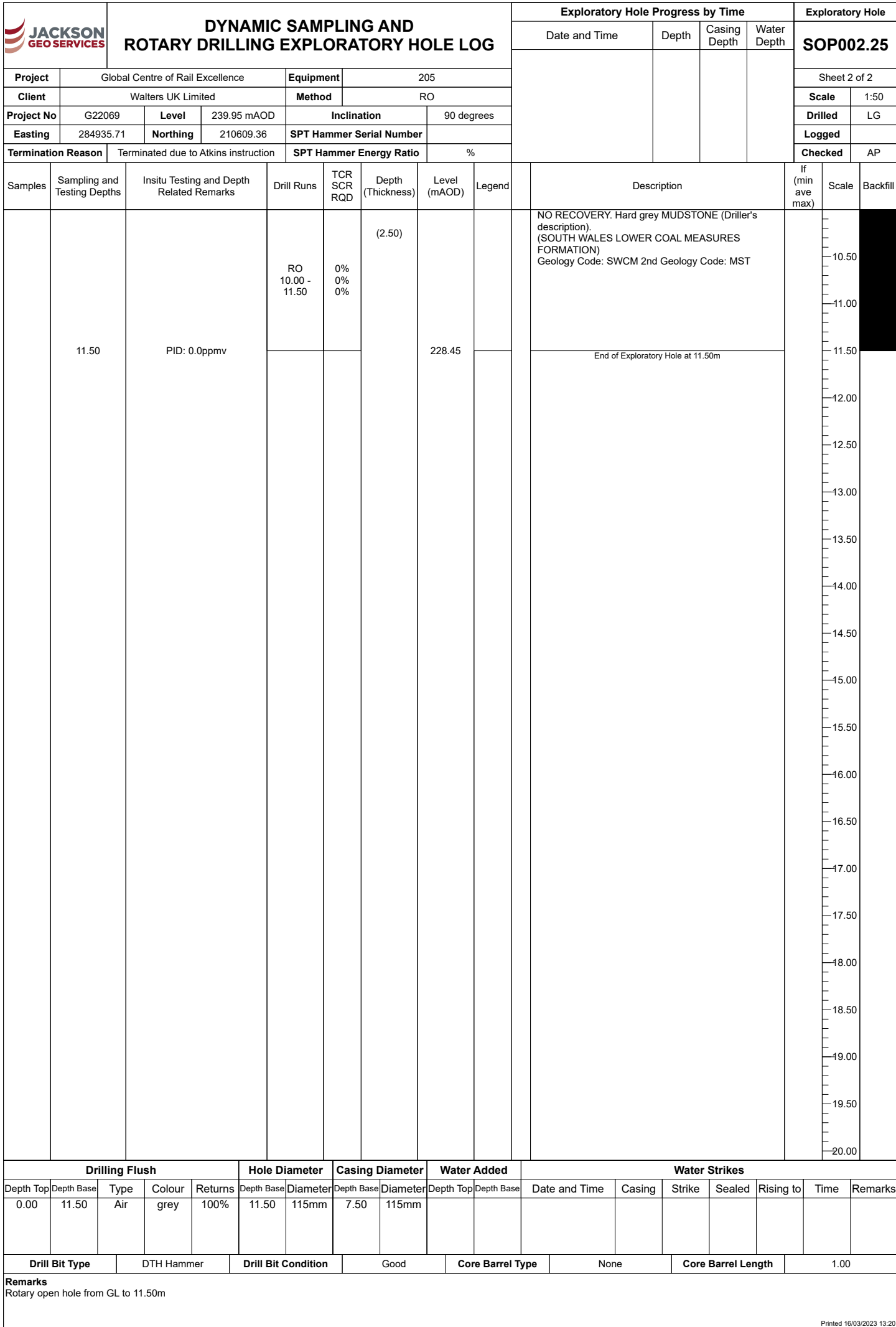


SOP002.25

It min	Scale	Backf
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It min	Scale	Backf
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It min	Scale	Backf
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Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	SOP003.1	
14/11/2022 15:05	0.00				
14/11/2022 16:15	4.00	4.00	Dry	Sheet 1 of 2	
15/11/2022 08:00	4.00	4.00	Dry	Scale	1:50
15/11/2022 11:00	14.00	6.00	Dry	Drilled	LG
				Logged	LG
				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	10.00	Air	Grey	100%	14.00	115mm	6.00	115mm									
10.00	11.50	Air	None	0%													
11.50	14.00	Air	Grey	100%													
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00		

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Exploratory Hole Progress by Time				Exploratory Hole									
Date and Time	Depth	Casing Depth	Water Depth	SOP003.1 Sheet 2 of 2 <table><tr><td>Scale</td><td>1:50</td></tr><tr><td>Drilled</td><td>LG</td></tr><tr><td>Logged</td><td>LG</td></tr><tr><td>Checked</td><td>AP</td></tr></table>		Scale	1:50	Drilled	LG	Logged	LG	Checked	AP
Scale	1:50												
Drilled	LG												
Logged	LG												
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	10.00	Air	Grey	100%	14.00	115mm	6.00	115mm									
10.00	11.50	Air	None	0%													
11.50	14.00	Air	Grey	100%													
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00		

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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	SOP003.2				
Project		Global Centre of Rail Excellence			Equipment		Commachio 205			Sheet 2 of 2							
Client		Walters UK Limited			Method		RO			Scale	1:50						
Project No		G22069	Level	238.99 mAOD	Inclination		90 degrees			Drilled	LG						
Easting		284921.52	Northing	210557.30	SPT Hammer Serial Number					Logged	LG						
Termination Reason		Terminated due to 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				
										VOID.							
	11.50	PID: 0.0ppmv			RO 10.00 - 11.50	0% 0% 0%	(1.50)	227.49				10.50					
	12.50	PID: 0.0ppmv			RO 11.50 - 12.50	0% 0% 0%	(1.00)	226.49		NO RECOVERY. Moderately strong grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST		11.50					
										End of Exploratory Hole at 12.50m		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	10.00	Air	Grey	100%	12.50	115mm	6.00	115mm									
10.00	11.50	Air	None	0%													
11.50	12.50	Air	Grey	100%													
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks																	
Rotary open hole from GL to 12.50m																	
Printed 16/03/2023 13:21																	

		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP003.3				
								15/11/2022 14:30 15/11/2022 16:00 16/11/2022 08:00 16/11/2022 12:30		0.00 4.00 4.00 15.00	4.00 4.00 6.00	Dry Dry Dry					
Project		Global Centre of Rail Excellence			Equipment		Comacchio 205			Sheet 1 of 2							
Client		Walters UK Limited			Method		RO			Scale 1:50							
Project No		G22069		Level		238.65 mAOD		Inclination		Drilled LG							
Easting		284911.06		Northing		210573.02		SPT Hammer Serial Number		Logged LG							
Termination Reason		Terminated due to 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				
	1.00	PID: 0.1ppmv			RO 0.00 - 1.00		0.00			NO RECOVERY. Black mining fill (Driller's description). (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR		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					
	2.00	PID: 0.0ppmv			RO 1.00 - 2.00												
	3.00	PID: 2.9ppmv			RO 2.00 - 3.00												
	4.00	PID: 0.3ppmv			RO 3.00 - 4.00												
	5.00	PID: 0.0ppmv			RO 4.00 - 5.00		4.50	234.15		NO RECOVERY. Soft brown silty gravelly CLAY (Driller's description). (Probable weathered SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: CL							
	6.00	PID: 0.0ppmv			RO 5.00 - 6.00		(1.50)										
	7.00	PID: 0.0ppmv			RO 6.00 - 7.00		6.00	232.65		NO RECOVERY. Moderately strong grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST							
	8.00	PID: 0.0ppmv			RO 7.00 - 8.00												
	9.00	PID: 0.1ppmv			RO 8.00 - 9.00												
	10.00	PID: 0.2ppmv			RO 9.00 - 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	15.00	Air	Grey	100%	15.00	115mm	6.00	115mm									
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00		
Remarks Rotary open hole from GL to 15.00m																	
Printed 16/03/2023 13:21																	

		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG										Exploratory Hole Progress by Time					Exploratory Hole	
												Date and Time		Depth	Casing Depth	Water Depth	SOP003.3	
Project		Global Centre of Rail Excellence				Equipment		Comacchio 205				Sheet 2 of 2						
Client		Walters UK Limited				Method		RO				Scale	1:50					
Project No		G22069		Level		238.65 mAOD		Inclination				Drilled	LG					
Easting		284911.06		Northing		210573.02		SPT Hammer Serial Number				Logged	LG					
Termination Reason		Terminated due to 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			
	11.50		PID: 0.0ppmv			RO 10.00 - 11.50		(9.00)			NO RECOVERY. Moderately strong grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST			10.50				
	13.00		PID: 0.0ppmv			RO 11.50 - 13.00								11.00				
	15.00		PID: 0.0ppmv			RO 13.00 - 15.00			223.65		End of Exploratory Hole at 15.00m			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	15.00	Air	Grey	100%	15.00	115mm	6.00	115mm										
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00				
Remarks Rotary open hole from GL to 15.00m																		
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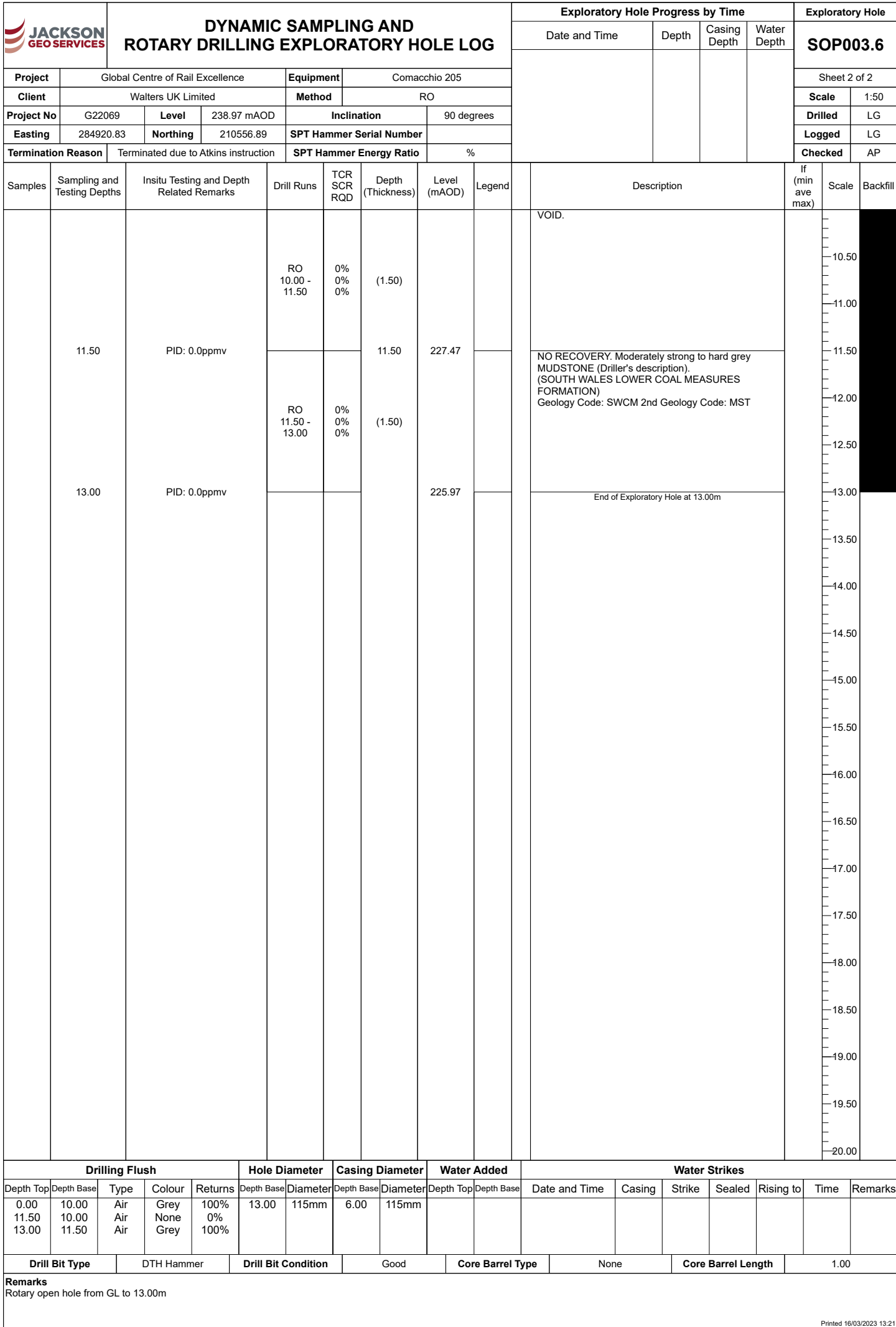
		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP003.4				
								16/11/2022 13:30 16/11/2022 16:30		0.00 15.00	6.00	Wet					
								16/11/2022 13:30 16/11/2022 16:30		0.00 15.00	6.00	Wet					
Project	Global Centre of Rail Excellence				Equipment	Comacchio 205				Sheet 1 of 2							
Client	Walters UK Limited				Method	RO				Scale	1:50						
Project No	G22069	Level	238.87 mAOD		Inclination		90 degrees		Drilled	LG							
Easting	284912.25	Northing	210572.35		SPT Hammer Serial Number				Logged	LG							
Termination Reason		Terminated due to 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					
	1.00	PID: 0.0ppmv		RO 0.00 - 1.00	0% 0% 0%	0.00			NO RECOVERY. Black granular MADE GROUND (coal and mudstone (Driller's description) (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR		0.50						
	2.00	PID: 0.0ppmv		RO 1.00 - 2.00	0% 0% 0%	(3.00)					1.00						
	3.00	PID: 0.0ppmv		RO 2.00 - 3.00	0% 0% 0%						1.50						
	4.00	PID: 0.0ppmv		RO 3.00 - 4.00	0% 0% 0%	3.00	235.87		NO RECOVERY. Soft light brown orange silty CLAY and gravels (Driller's description). (Probable weather SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: CL		2.00						
	5.00	PID: 0.0ppmv		RO 4.00 - 5.00	0% 0% 0%						2.50						
	6.00	PID: 0.0ppmv		RO 5.00 - 6.00	0% 0% 0%	5.00	233.87		NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST		3.00						
	7.00	PID: 0.0ppmv		RO 6.00 - 7.00	0% 0% 0%						3.50						
	8.00	PID: 0.0ppmv		RO 7.00 - 8.00	0% 0% 0%						4.00						
	9.00	PID: 0.0ppmv		RO 8.00 - 9.00	0% 0% 0%						4.50						
	10.00	PID: 0.0ppmv		RO 9.00 - 10.00	0% 0% 0%	(8.00)					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	15.00	Air	Grey	100%	15.00	115mm	6.00	115mm			16/11/2022 14:20	6.00	13.00		13.00	20mins	
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks Rotary open hole from GL to 15.00m																	
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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	SOP003.5				
								17/11/2022 08:00 17/11/2022 12:30		0.00 15.00	6.00	Dry					
Project	Global Centre of Rail Excellence			Equipment	Comacchio 205					Sheet 1 of 2							
Client	Walters UK Limited			Method	RO					Scale	1:50						
Project No	G22069	Level	238.74 mAOD	Inclination		90 degrees				Drilled	LG						
Easting	284914.67	Northing	210568.92	SPT Hammer Serial Number						Logged	LG						
Termination Reason		Terminated due to 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					
	1.00	PID: 0.0ppmv		RO 0.00 - 1.00	0% 0% 0%	0.00			NO RECOVERY. Black mining fill (Driller's description). (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR		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						
	2.00	PID: 0.0ppmv		RO 1.00 - 2.00	0% 0% 0%												
	3.00	PID: 0.0ppmv		RO 2.00 - 3.00	0% 0% 0%												
	4.00	PID: 0.0ppmv		RO 3.00 - 4.00	0% 0% 0%												
	5.00	PID: 0.1ppmv		RO 4.00 - 5.00	0% 0% 0%	4.00	234.74		NO RECOVERY. Soft silty brown gravelly CLAY (Driller's description). (Probable weathered SOUTH WALES LOWER GROUND MEASURES) Geology Code: SWCM 2nd Geology Code: CL								
	6.00	PID: 0.0ppmv		RO 5.00 - 6.00	0% 0% 0%	(2.00)											
	7.00	PID: 0.0ppmv		RO 6.00 - 7.00	0% 0% 0%	6.00	232.74		NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM								
	8.00	PID: 0.0ppmv		RO 7.00 - 8.00	0% 0% 0%	(4.00)											
	9.00	PID: 0.0ppmv		RO 8.00 - 9.00	0% 0% 0%												
	10.00	PID: 0.0ppmv		RO 9.00 - 10.00	0% 0% 0%	10.00	228.74		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	10.00	Air	Grey	100%	15.00	115mm	6.00	115mm									
10.00	11.50	Air	None	0%													
11.50	15.00	Air	Grey	100%													
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks																	
Rotary open hole from GL to 15.00m																	
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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	SOP003.5													
Project		Global Centre of Rail Excellence			Equipment		Comacchio 205			Sheet 2 of 2																
Client		Walters UK Limited			Method		RO			Scale	1:50															
Project No		G22069		Level	238.74 mAOD		Inclination		90 degrees		Drilled	LG														
Easting		284914.67		Northing	210568.92		SPT Hammer Serial Number				Logged	LG														
Termination Reason		Terminated due to 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												
	11.50	PID: 0.0ppmv			RO 10.00 - 11.50	0% 0% 0%	(1.50)	227.24		VOID.																
					RO 11.50 - 13.00	0% 0% 0%				NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM																
					RO 13.00 - 15.00	0% 0% 0%	(3.50)	223.74		End of Exploratory Hole at 15.00m																
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	Air	Grey	100%	15.00	115mm	6.00	115mm																		
10.00	11.50	Air	None	0%																						
11.50	15.00	Air	Grey	100%																						
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00											
Remarks																										
Rotary open hole from GL to 15.00m																										
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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	SOP003.7				
								18/11/2022 10:45 18/11/2022 13:30 21/11/2022 08:00 21/11/2022 10:30		0.00 5.00 5.00 15.00	3.00 3.00 6.00	Dry Dry Dry					
Project		Global Centre of Rail Excellence			Equipment		Comacchio 205			Sheet 1 of 2							
Client		Walters UK Limited			Method		RO			Scale 1:50							
Project No		G22069		Level		239.01 mAOD		Inclination		90 degrees							
Easting		284922.28		Northing		210557.77		SPT Hammer Serial Number		LG							
Termination Reason		Terminated due to 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				
	1.00	PID: 0.0ppmv			RO 0.00 - 1.00	0% 0% 0%	0.00			NO RECOVERY. Black mining fill (Driller's description) (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR		0.50					
	2.00	PID: 0.0ppmv			RO 1.00 - 2.00	0% 0% 0%						1.00					
	3.00	PID: 0.0ppmv			RO 2.00 - 3.00	0% 0% 0%						1.50					
	4.00	PID: 0.0ppmv			RO 3.00 - 4.00	0% 0% 0%						2.00					
	5.00	PID: 0.0ppmv			RO 4.00 - 5.00	0% 0% 0%	(4.50)	234.51		NO RECOVERY. Soft silty brown gravelly CLAY (Driller's description). (Probable weathered SOUTH WALES LOWER COAL MEASURES) Geology Code: SWCM 2nd Geology Code: CL		2.50					
	6.00	PID: 0.0ppmv			RO 5.00 - 6.00	0% 0% 0%	(1.50)	233.01				3.00					
	7.00	PID: 0.0ppmv			RO 6.00 - 7.00	0% 0% 0%	6.00					3.50					
	8.00	PID: 0.0ppmv			RO 7.00 - 8.00	0% 0% 0%						4.00					
	9.00	PID: 0.0ppmv			RO 8.00 - 9.00	0% 0% 0%				NO RECOVERY. Moderately strong grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES) Geology Code: SWCM		4.50					
	10.00	PID: 0.0ppmv			RO 9.00 - 10.00	0% 0% 0%						5.00					
												5.50					
												6.00					
Continued on next Sheet														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	15.00	Air	Grey	100%	15.00	115mm	6.00	115mm									
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks Rotary open hole from GL to 15.00m																	
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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	SOP003.7			
Project		Global Centre of Rail Excellence				Equipment		Comacchio 205				Sheet 2 of 2								
Client		Walters UK Limited				Method		RO				Scale	1:50							
Project No		G22069		Level	239.01 mAOD		Inclination		90 degrees		Drilled	LG								
Easting		284922.28		Northing	210557.77		SPT Hammer Serial Number				Logged	LG								
Termination Reason		Terminated due to 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 10.00 - 11.50	0% 0% 0%	(9.00)			NO RECOVERY. Moderately strong grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES) Geology Code: SWCM		10.50							
													11.00							
													11.50							
						RO 11.50 - 13.00	0% 0% 0%						12.00							
													12.50							
													13.00							
													13.50							
						RO 13.00 - 15.00	0% 0% 0%						14.00							
													14.50							
									224.01		End of Exploratory Hole at 15.00m		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	15.00	Air	Grey	100%	15.00	115mm	6.00	115mm												
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00						
Remarks Rotary open hole from GL to 15.00m																				
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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	SOP003.8				
								21/11/2022 10:45 21/11/2022 13:00		0.00 13.00	6.00	Dry					
Project	Global Centre of Rail Excellence			Equipment	Comacchio 205					Sheet 1 of 2							
Client	Walters UK Limited			Method	RO					Scale	1:50						
Project No	G22069	Level	239.24 mAOD	Inclination		90 degrees				Drilled	LG						
Easting	284926.01	Northing	210550.18	SPT Hammer Serial Number						Logged	LG						
Termination Reason		Terminated due to 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					
	1.00	PID: 0.0ppmv		RO 0.00 - 1.00	0% 0% 0%	0.00			NO RECOVERY. Black mining fill (Driller's description). (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR		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						
	2.00	PID: 0.0ppmv		RO 1.00 - 2.00	0% 0% 0%												
	3.00	PID: 0.0ppmv		RO 2.00 - 3.00	0% 0% 0%												
	4.00	PID: 0.0ppmv		RO 3.00 - 4.00	0% 0% 0%												
	5.00	PID: 0.0ppmv		RO 4.00 - 5.00	0% 0% 0%	4.00	235.24		NO RECOVERY. Soft silty brown gravelly CLAY (Driller's description). (Probable weathered SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: CL								
	6.00	PID: 0.0ppmv		RO 5.00 - 6.00	0% 0% 0%												
	7.00	PID: 0.0ppmv		RO 6.00 - 7.00	0% 0% 0%												
	8.00	PID: 0.0ppmv		RO 7.00 - 8.00	0% 0% 0%												
	9.00	PID: 0.0ppmv		RO 8.00 - 9.00	0% 0% 0%	(4.60)			NO RECOVERY. Moderately strong grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST								
	10.00	PID: 0.0ppmv		RO 9.00 - 10.00	0% 0% 0%												
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	10.60	Air	Grey	100%	13.00	115mm	6.00	115mm									
10.60	12.20	Air	None	0%													
12.20	13.00	Air	Grey	100%													
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks																	
Rotary open hole from 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	SOP003.9				
								21/11/2022 13:30 21/11/2022 16:00		0.00 15.00	6.00	Dry					
								21/11/2022 13:30 21/11/2022 16:00		0.00 15.00	6.00	Dry					
Project	Global Centre of Rail Excellence			Equipment	Comacchio 205			Sheet 1 of 2									
Client	Walters UK Limited			Method	RO			Scale	1:50								
Project No	G22069	Level	239.14 mAOD	Inclination	90 degrees			Drilled	LG								
Easting	284924.48	Northing	210548.59	SPT Hammer Serial Number				Logged	LG								
Termination Reason	Terminated due to 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					
	1.00	PID: 0.0ppmv		RO 0.00 - 1.00	0% 0% 0%	0.00			NO RECOVERY. Black mining fill (Driller's description). (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR		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						
	2.00	PID: 0.0ppmv		RO 1.00 - 2.00	0% 0% 0%												
	3.00	PID: 0.0ppmv		RO 2.00 - 3.00	0% 0% 0%												
	4.00	PID: 0.0ppmv		RO 3.00 - 4.00	0% 0% 0%												
	5.00	PID: 0.0ppmv		RO 4.00 - 5.00	0% 0% 0%	4.00	235.14		NO RECOVERY. Soft brown silty gravelly CLAY (Driller's description). (Probable weathered SOUTH WALES LOWER COAL MEASURES) Geology Code: SWCM 2nd Geology Code: CL								
	6.00	PID: 0.0ppmv		RO 5.00 - 6.00	0% 0% 0%	(2.00)	233.14		NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM								
	7.00	PID: 0.0ppmv		RO 6.00 - 7.00	0% 0% 0%												
	8.00	PID: 0.0ppmv		RO 7.00 - 8.00	0% 0% 0%												
	9.00	PID: 0.0ppmv		RO 8.00 - 9.00	0% 0% 0%												
	10.00	PID: 0.0ppmv		RO 9.00 - 10.00	0% 0% 0%	(4.60)			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	10.60	Air	Grey	100%	15.00	115mm	15.00	115mm									
10.60	12.20	Air	None	0%													
12.20	15.00	Air	Grey	100%													
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks																	
Rotary open hole from GL to 15.00m																	
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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	SOP003.11				
								22/11/2022 13:00 22/11/2022 16:00		0.00 15.00	6.00	Dry					
Project		Global Centre of Rail Excellence			Equipment		Comacchio 205			Sheet 1 of 2							
Client		Walters UK Limited			Method		RO			Scale	1:50						
Project No		G22069	Level		239.16 mAOD	Inclination		90 degrees		Drilled	LG						
Easting		284927.19	Northing		210551.12	SPT Hammer Serial Number				Logged	LG						
Termination Reason		Terminated due to 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				
	1.00	PID: 0.0ppmv			RO 0.00 - 1.00	0% 0% 0%	0.00			NO RECOVERY. Black mining fill (Driller's description). (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR		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					
	2.00	PID: 0.0ppmv			RO 1.00 - 2.00	0% 0% 0%											
	3.00	PID: 0.0ppmv			RO 2.00 - 3.00	0% 0% 0%											
	4.00	PID: 0.0ppmv			RO 3.00 - 4.00	0% 0% 0%											
	5.00	PID: 0.0ppmv			RO 4.00 - 5.00	0% 0% 0%	4.00	235.16		NO RECOVERY. Soft brown silty gravelly CLAY (Driller's description). (Probable weathered SOUTH WALES LOWER COAL MEASURE FORMATION) Geology Code: SWCM 2nd Geology Code: CL							
	6.00	PID: 0.0ppmv			RO 5.00 - 6.00	0% 0% 0%	(2.00)										
	7.00	PID: 0.0ppmv			RO 6.00 - 7.00	0% 0% 0%	6.00	233.16		NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST							
	8.00	PID: 0.0ppmv			RO 7.00 - 8.00	0% 0% 0%											
	9.00	PID: 0.0ppmv			RO 8.00 - 9.00	0% 0% 0%											
	10.00	PID: 0.0ppmv			RO 9.00 - 10.00	0% 0% 0%				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
15.00	0.00	Air	Grey	100%	15.00	115mm	6.00	115mm									
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks Rotary open hole from GL to 15.00m																	
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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	SOP003.11				
Project		Global Centre of Rail Excellence			Equipment		Comacchio 205			Sheet 2 of 2							
Client		Walters UK Limited			Method		RO			Scale	1:50						
Project No		G22069	Level	239.16 mAOD	Inclination		90 degrees		Drilled	LG							
Easting		284927.19	Northing	210551.12	SPT Hammer Serial Number				Logged	LG							
Termination Reason		Terminated due to 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				
	11.50	PID: 0.0ppmv			RO 10.00 - 11.50	0% 0% 0%	(9.00)			NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST		10.50					
	13.00	PID: 0.0ppmv			RO 11.50 - 13.00	0% 0% 0%						11.00					
	14.50	PID: 0.0ppmv			RO 13.00 - 15.00	0% 0% 0%						11.50					
												12.00					
												12.50					
												13.00					
												13.50					
												14.00					
												14.50					
								224.16		End of Exploratory Hole at 15.00m		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
15.00	0.00	Air	Grey	100%	15.00	115mm	6.00	115mm									
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks Rotary open hole from GL to 15.00m																	
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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	SOP003.12		
										Project		Global Centre of Rail Excellence					Equipment
Client		Walters UK Limited			Method		RO			Scale	1:50						
Project No		G22069		Level	238.86 mAOD		Inclination		90 degrees		Drilled	LG					
Easting		284930.58		Northing	210540.62		SPT Hammer Serial Number				Logged	LG					
Termination Reason		Terminated due to 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			
	11.50	PID: 0.0ppmv			RO 10.00 - 11.50	0% 0% 0%	(9.00)			NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST			10.50				
													11.00				
													11.50				
													12.00				
	13.00	PID: 0.0ppmv			RO 11.50 - 13.00	0% 0% 0%							12.50				
													13.00				
													13.50				
													14.00				
	14.50	PID: 0.0ppmv			RO 13.00 - 15.00	0% 0% 0%							14.50				
													15.00				
	15.00	PID: 0.0ppmv						223.86		End of Exploratory Hole at 15.00m			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
15.00	0.00	Air	Grey	100%	15.00	115mm											
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks Rotary open hole from GL to 15.00m																	

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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	SOP003.13				
								23/11/2022 11:30 23/11/2022 15:30		0.00 15.00	0.00	Dry					
Project	Global Centre of Rail Excellence			Equipment	Comacchio 205					Sheet 1 of 2							
Client	Walters UK Limited			Method	RO					Scale	1:50						
Project No	G22069	Level	238.95 mAOD	Inclination		90 degrees				Drilled	LG						
Easting	284931.52	Northing	210541.54	SPT Hammer Serial Number						Logged	LG						
Termination Reason		Terminated due to 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					
	1.00	PID: 0.0ppmv		RO 0.00 - 1.00	0% 0% 0%	0.00			NO RECOVERY. Black mining fill (Driller's description). (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR		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						
	2.00	PID: 0.0ppmv		RO 1.00 - 2.00	0% 0% 0%												
	3.00	PID: 0.0ppmv		RO 2.00 - 3.00	0% 0% 0%												
	4.00	PID: 0.0ppmv		RO 3.00 - 4.00	0% 0% 0%												
	5.00	PID: 0.0ppmv		RO 4.00 - 5.00	0% 0% 0%	4.00	234.95		NO RECOVERY. Soft brown silty CLAY (Driller's description). (Probable weathered SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: CL								
	6.00	PID: 0.0ppmv		RO 5.00 - 6.00	0% 0% 0%	6.00	232.95		NO RCOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST								
	7.00	PID: 0.0ppmv		RO 6.00 - 7.00	0% 0% 0%												
	8.00	PID: 0.0ppmv		RO 7.00 - 8.00	0% 0% 0%	(4.70)											
	9.00	PID: 0.0ppmv		RO 8.00 - 9.00	0% 0% 0%												
	10.00	PID: 0.0ppmv		RO 9.00 - 10.00	0% 0% 0%				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	10.70	Air	Grey	100%	15.00	115mm											
15.00	12.00	Air	Grey	100%													
10.70	12.00	Air	None	0%													
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks																	
Rotary open hole from GL to 15.00m																	
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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	SOP003.14				
								24/11/2022 08:00 24/11/2022 12:30		0.00 15.00	6.00	Dry					
Project		Global Centre of Rail Excellence			Equipment		Comacchio 205			Sheet 1 of 2							
Client		Walters UK Limited			Method		RO			Scale	1:50						
Project No		G22069	Level	239.09 mAOD	Inclination		90 degrees		Drilled	LG							
Easting		284932.26	Northing	210542.24	SPT Hammer Serial Number				Logged	LG							
Termination Reason		Terminated due to 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			
	1.00		PID: 0.0ppmv		RO 0.00 - 1.00	0% 0% 0%	0.00			NO RECOVERY. Black mining fill (Driller's description). (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR			0.50 1.00 1.50 2.00 2.50 3.00 3.50				
	2.00		PID: 0.0ppmv		RO 1.00 - 2.00	0% 0% 0%											
	3.00		PID: 0.0ppmv		RO 2.00 - 3.00	0% 0% 0%											
	4.00		PID: 0.0ppmv		RO 3.00 - 4.00	0% 0% 0%											
	5.00		PID: 0.0ppmv		RO 4.00 - 5.00	0% 0% 0%	4.00	235.09		NO RECOVERY. Soft brown gravelly CLAY (Driller's description). (Probable weathered SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: CL			4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50				
	6.00		PID: 0.0ppmv		RO 5.00 - 6.00	0% 0% 0%											
	7.00		PID: 0.0ppmv		RO 6.00 - 7.00	0% 0% 0%											
	8.00		PID: 0.0ppmv		RO 7.00 - 8.00	0% 0% 0%											
	9.00		PID: 0.0ppmv		RO 8.00 - 9.00	0% 0% 0%	(4.70)						9.00 9.50				
	10.00		PID: 0.0ppmv		RO 9.00 - 10.00	0% 0% 0%											
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	10.70	Air	Grey	100%	15.00	115mm	6.00	115mm									
10.70	12.00	Air	None	0%													
15.00	12.00	Air	Grey	100%													
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks																	
Rotary open hole from GL to 15.00m																	
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Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	SOP003.15	
				Sheet 2 of 3	
				Scale	1:50
				Drilled	LG
				Logged	LG
				Checked	AP

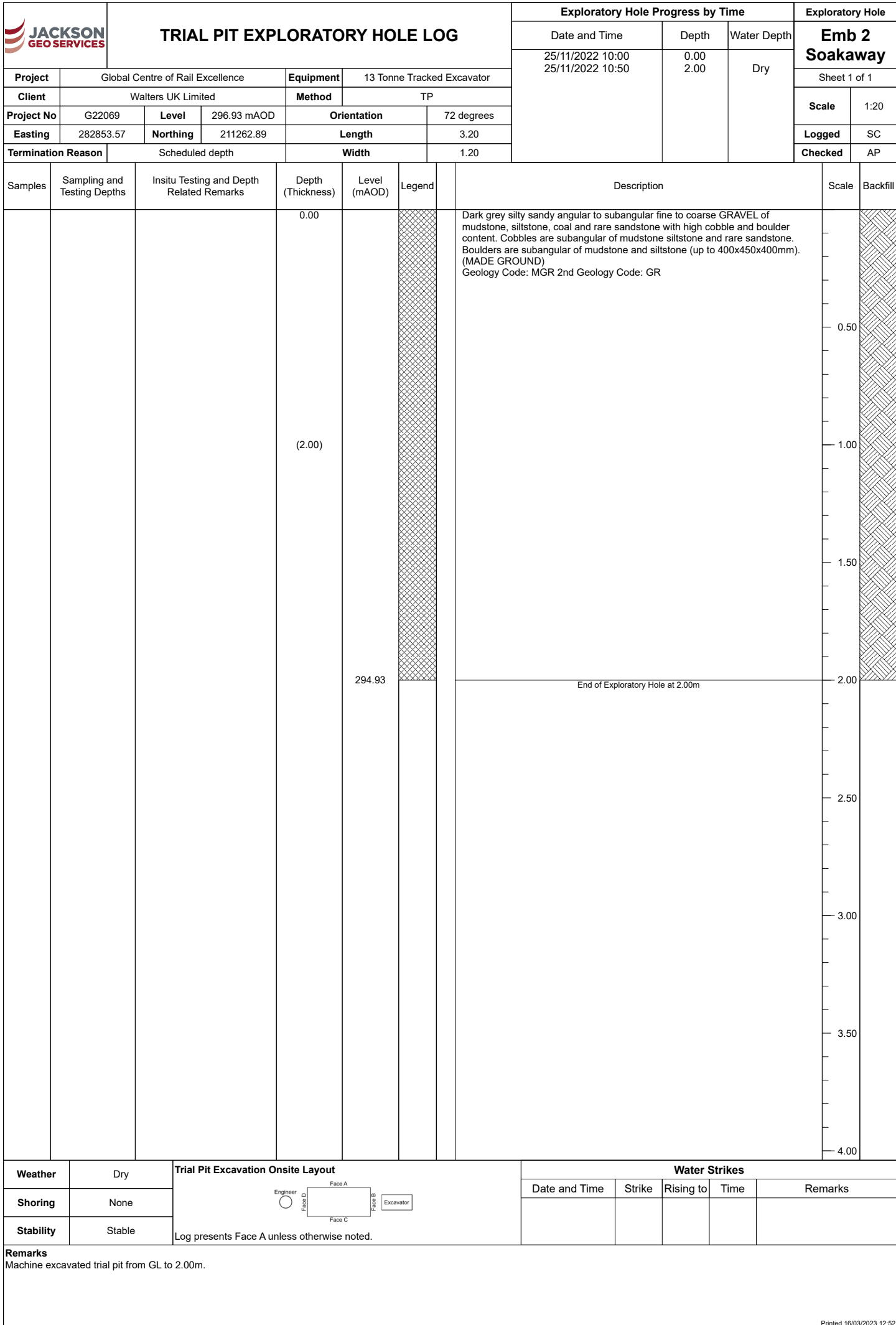
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
25.00	0.00	Air	Black/ Grey	100%	25.00	115mm	6.00	115mm									
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00		

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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	SOP003.15				
Project		Global Centre of Rail Excellence			Equipment		Comacchio 205			Sheet 3 of 3							
Client		Walters UK Limited			Method		RO			Scale	1:50						
Project No		G22069	Level	239.01 mAOD	Inclination		90 degrees			Drilled	LG						
Easting		284934.71	Northing	210537.17	SPT Hammer Serial Number					Logged	LG						
Termination Reason		Terminated due to 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				
	20.50	PID: 0.0ppmv			RO 20.00 - 21.50	0% 0% 0%				NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES) Geology Code: SWCM 2nd Geology Code: MST		20.50					
	22.00	PID: 0.0ppmv			RO 21.50 - 23.00	0% 0% 0%					21.00						
	23.50	PID: 0.0ppmv			RO 23.00 - 25.00	0% 0% 0%					21.50						
	25.00	PID: 0.0ppmv					214.01		End of Exploratory Hole at 25.00m		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
25.00	0.00	Air	Black/ Grey	100%	25.00	115mm	6.00	115mm									
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks Rotary open hole from GL to 25.00m																	

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EXPLORATORY HOLE PHOTOGRAPHS

Remarks Machine excavated trial pit from GL to 2.00m.		Exploratory Hole
		Emb 2 Soakaway
Equipment	13 Tonne Tracked Excavator	Sheet 1 of 2
Method	TP	
Termination Reason	Scheduled depth	



Embankment 2 Soakaway Spoil



Embankment 2 Soakaway Face D



EXPLORATORY HOLE PHOTOGRAPHS

Remarks Machine excavated trial pit from GL to 2.00m.		Exploratory Hole
		Emb 2 Soakaway
Equipment	13 Tonne Tracked Excavator	Sheet 2 of 2
Method	TP	
Termination Reason	Scheduled depth	



Embankment 2 Soakaway Face B



Embankment 2 Soakaway Face A

EXPLORATORY HOLE PHOTOGRAPHS

Remarks
Machine excavated trial pit from GL to 2.40m

Exploratory Hole
S1-TP101

Project	Global Centre of Rail Excellence	Easting	282949.73	Equipment	13 Tonne Tracked Excavator
Client	Walters UK Limited	Northing	211957.75	Method	TP
Project No	G22069	Level	219.41 mAOD	Termination Reason	Terminated due to instability

Sheet 1 of 3



S1-TP101 - Face A



S1-TP101 - Face B

EXPLORATORY HOLE PHOTOGRAPHS

Remarks
Machine excavated trial pit from GL to 2.40m

Exploratory Hole
S1-TP101

Project	Global Centre of Rail Excellence	Easting	282949.73	Equipment	13 Tonne Tracked Excavator
Client	Walters UK Limited	Northing	211957.75	Method	TP
Project No	G22069	Level	219.41 mAOD	Termination Reason	Terminated due to instability

Sheet 2 of 3



S1-TP101 - Face C



S1-TP101 - Face D

EXPLORATORY HOLE PHOTOGRAPHS

Remarks Machine excavated trial pit from GL to 2.40m	Exploratory Hole
	S1-TP101

Project	Global Centre of Rail Excellence	Easting	282949.73	Equipment	13 Tonne Tracked Excavator
Client	Walters UK Limited	Northing	211957.75	Method	TP
Project No	G22069	Level	219.41 mAOD	Termination Reason	Terminated due to instability

Sheet 3 of 3



S1-TP101 - Spoil

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EXPLORATORY HOLE PHOTOGRAPHS

Remarks
Machine excavated trial pit from GL to 3.90m.

Exploratory Hole
S1-TP102

Project	Global Centre of Rail Excellence	Easting	283137.81	Equipment	20 Tonne Tracked Excavator
Client	Walters UK Limited	Northing	211964.61	Method	TP
Project No	G22069	Level	221.85 mAOD	Termination Reason	Hard ground. Unable to progress

Sheet 1 of 3



S1-TP102 - Face A



S1-TP102 - Face B