

		EXPLORATORY HOLE PHOTOGRAPHS		Exploratory Hole S2-BH243	
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284769.63	Equipment	Beretta T44
Client	Walters UK Ltd	Northing	210460.39	Method	IP/RC/DS
Project No	G23012	Level	237.75 mAOD	Termination Reason	Scheduled depth

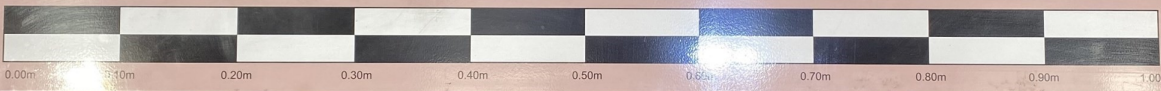
Sheet 1 of 3

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	3 MAY 2023
Exploratory Hole Number	S2-BH243	Box / Face Number	
Depth (m) from	2.00 to 3.00	Engineer	RF




JACKSON GEO SERVICES

THIS CORE IS INTENTIONALLY COVERED

JACKSON GEO SERVICES

S2-BH243 2.00 m to 3.00 m

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	3 MAY 2023
Exploratory Hole Number	S2-BH243	Box / Face Number	
Depth (m) from	3.00 to 4.00	Engineer	RF




JACKSON GEO SERVICES

THIS CORE IS INTENTIONALLY COVERED

JACKSON GEO SERVICES

S2-BH243 3.00 m to 4.00 m

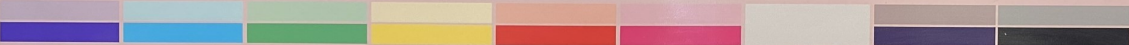
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284769.63	Equipment	Beretta T44	Sheet 2 of 3
Client	Walters UK Ltd	Northing	210460.39	Method	IP/RC/DS	
Project No	G23012	Level	237.75 mAOD	Termination Reason	Scheduled depth	

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	3 MAY 2023
Exploratory Hole Number	S2-BH243	Box / Face Number	
Depth (m) from	4.00 to 5.00	Engineer	RF






S2-BH243 4.00 m to 5.00 m

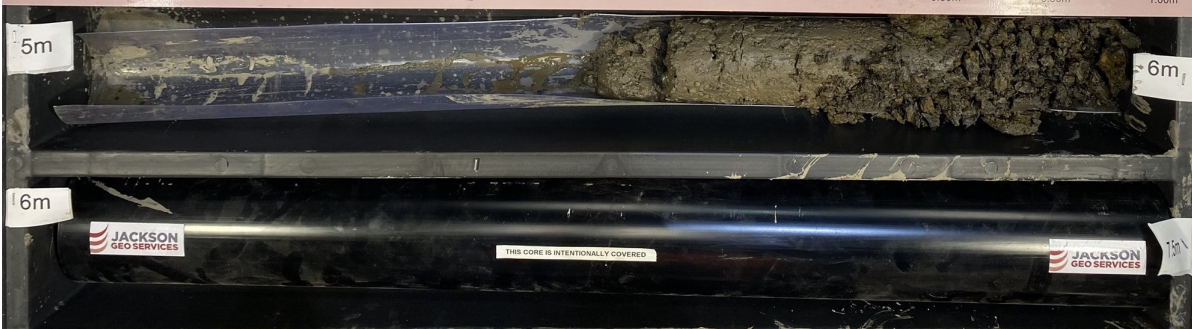
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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	3 MAY 2023
Exploratory Hole Number	S2-BH243	Box / Face Number	
Depth (m) from	5.00 to 6.00	Engineer	RF



S2-BH243 5.00 m to 6.00 m

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-BH243
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284769.63	Equipment	Beretta T44	Sheet 3 of 3
Client	Walters UK Ltd	Northing	210460.39	Method	IP/RC/DS	
Project No	G23012	Level	237.75 mAOD	Termination Reason	Scheduled depth	

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	3 MAY 2023
Exploratory Hole Number	S2-BH243	Box / Face Number	
Depth (m) from	6.00 to 7.50	Engineer	RF





S2-BH243 6.00 m to 7.50 m

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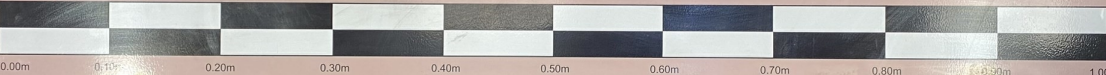
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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	3 MAY 2023
Exploratory Hole Number	S2-BH243	Box / Face Number	
Depth (m) from	7.50 to 8.50	Engineer	RF





S2-BH243 7.50 m to 8.50 m



Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	S2-BH244	
28/03/2023 08:45	0.00	0.00	1.80 0.00 3.20	Sheet 1 of 2	
29/03/2023 07:30	5.00	5.00		Scale	1:25
29/03/2023 16:42	10.00	8.50		Drilled	KO
30/03/2023 07:15	10.00	8.50		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	
0.00	5.00	Air/Mist	Grey/ Brown	100%	10.00	112mm	3.00	200mm			28/03/2023 19:05	0.00	0.20	4.00	0.20	20mins	Medium	
							5.00	150mm										
Drill Bit Type		PCD			Drill Bit Condition		Good		Core Barrel Type		Conventional Double Tube		Core Barrel Length			1.50		

Remarks									
Hand excavated inspection pit from GL to 1.20m depth. Dynamic sampling from 1.20m to 5.00m depth. Rotary coring from 5.00m to 10.00m depth.									

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Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284788.09	Equipment	Insulated hand tools/Commachio 305
Client	Walters UK Ltd	Northing	210449.13	Method	IP/DS/RC
Project No	G23012	Level	237.58 mAOD	Termination Reason	Scheduled depth

Sheet 1 of 4

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Project Name	QCRE STAGE 2	Project Number	923012
Client	WALTERS GROUP	Date	30 MAR' 2023
Exploratory Hole Number	S2-BH244	Box / Face Number	
Depth (m) from	0.20 to 1.20	Engineer	A

S2-BH244 0.20 m to 1.20 m

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Project Name	QCRE STAGE 2	Project Number	923012
Client	WALTERS GROUP	Date	30 MAR' 2023
Exploratory Hole Number	S2-BH244	Box / Face Number	
Depth (m) from	1.20 to 2.00	Engineer	A

S2-BH244 1.20 m to 2.00 m

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-BH244
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284788.09	Equipment	Insulated hand tools/Commachio 305	
Client	Walters UK Ltd	Northing	210449.13	Method	IP/DS/RC	
Project No	G23012	Level	237.58 mAOD	Termination Reason	Scheduled depth	

Sheet 2 of 4

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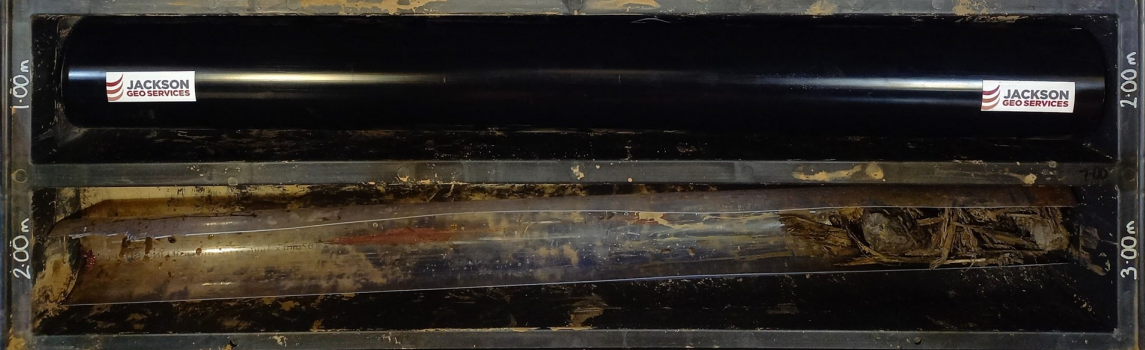
Telephone: 02920 099 769





Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	30 MAR' 2023
Exploratory Hole Number	S2-BH244	Box / Face Number	
Depth (m) from	2.00 to 3.00	Engineer	A





S2-BH244 2.00 m to 3.00 m

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	30 MAR' 2023
Exploratory Hole Number	S2-BH244	Box / Face Number	
Depth (m) from	5.00 to 6.00	Engineer	A





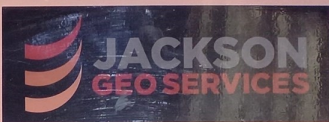
S2-BH244 5.00 m to 6.00 m

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284788.09	Equipment	Insulated hand tools/Commachio 305
Client	Walters UK Ltd	Northing	210449.13	Method	IP/DS/RC
Project No	G23012	Level	237.58 mAOD	Termination Reason	Scheduled depth

S2-BH244 6.00 m to 7.00 m

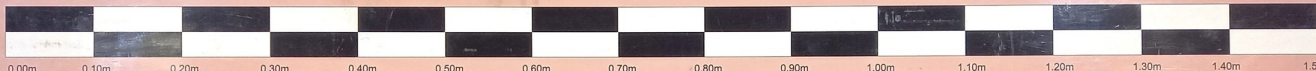
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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	30 MAR' 2023
Core Hole Number	S2-BH244	Box / Face Number	
Depth (m) from	7.00 to 7.50	Engineer	A





S2-BH244 7.00 m to 7.50 m

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-BH244
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284788.09	Equipment	Insulated hand tools/Commachio 305	Sheet 4 of 4
Client	Walters UK Ltd	Northing	210449.13	Method	IP/DS/RC	
Project No	G23012	Level	237.58 mAOD	Termination Reason	Scheduled depth	



S2-BH244 7.50 m to 8.50 m



S2-BH244 8.50 m to 10.00 m



Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	S2-BH245	
04/04/2023 14:30	0.00	0.00	dry		
04/04/2023 16:30	4.00	4.00			
05/04/2023 07:00	4.00	4.00		3.70	
05/04/2023 16:30	10.00	7.50		3.90	
				Sheet 1 of 2	
				Scale	1:25
				Drilled	KO
				Logged	AF
				Checked	AP

Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	4.00	Air/Mist	Grey	100%	3.00 10.00	200mm 150mm	3.00	200mm			04/04/2023 16:15	4.00	4.00		3.80	20mins	Slow to medium
Drill Bit Type		PCD			Drill Bit Condition		Fair		Core Barrel Type		Conventional Double Tube		Core Barrel Length			1.50	

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		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	S2-BH245				
Project		Global Centre of Rail Excellence (GCRE) Stage 2			Equipment		Beretta T44/Insulated hand tools			Sheet 2 of 2							
Client		Walters UK Ltd			Method		WLS/RC/IP			Scale	1:25						
Project No		G23012		Level		238.37 mAOD		Inclination		90 degrees							
Easting		284573.76		Northing		210446.75		SPT Hammer Serial Number		Logged		AF					
Termination Reason		Scheduled depth			SPT Hammer Energy Ratio		%		Checked		AP						
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks			Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend	Description	If (min ave max)	Scale	Backfill				
	6.00	PID: 0.0ppmv			RC 5.00 - 6.00	70% 0% 0%	(1.00)	6.00	232.37	Very weak to weak dark grey to black carbonaceous MUDSTONE. Weathering: Some brown staining. NI; Recovered as slightly sandy silty very angular to subangular fine to coarse gravel. Possible randomly orientated extremely closely locally very closely spaced fractures. (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST	Set 1 NI NI NI	5.50					
	7.00	PID: 0.0ppmv			RC 6.00 - 7.00	100% 58% 22%	(2.00)	8.00	230.37	Very weak to weak very thinly to thinly bedded dark grey to black slightly carbonaceous MUDSTONE. Rare quartz veins (<1-2mm thickness). Weathering: localised zones with increased fracture spacing and slight loss of strength. Discontinuities: 20 to 30 degree very closely and closely spaced planar smooth tight and incipient bedding fractures. Occasional zones with randomly orientated extremely closely spaced tight and incipient fractures. (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST 6.30m - 6.60m 75 to 85 degree planar smooth tight joint with randomly orientated extremely closely spaced conjugate fractures. 7.00m - 7.40m NI, recovered as very angular to subangular fine to coarse gravel.Possible randomly orientated extremely closely spaced fractures.	Set 1 NI 60 150	6.00					
	8.50	PID: 0.0ppmv			RC 7.00 - 8.50	100% 33% 15%	(0.40)	8.40	229.97	7.80m - 8.00m 70 to 90 degree undulating rough tight joint.	Set 1 <10 <10 25	7.50					
	10.00	PID: 0.0ppmv			RC 8.50 - 10.00	100% 44% 26%	(1.60)			Very weak black COAL. No weathering apparent. Discontinuities: 20 degree and randomly orientated extremely closely to very closely spaced planar smooth tight and incipient bedding fractures. (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: COAL Very weak to weak thinly locally medium bedded grey to dark grey slightly carbonaceous MUDSTONE grading to SILTSTONE. Weathering: localised zones with increased fracture spacing and slight loss of strength. Discontinuities: 10 to 20 degree closely locally very closely and medium spaced planar smooth tight and incipient bedding fractures. Occasional zones with randomly orientated undulating and planar smooth tight and incipient fractures. (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST 9.00m - 10.00m Randomly orientated very closely spaced undulating and planar rough tight and incipient fractures.	Set 1 20 100 230	8.00					
										End of Exploratory Hole at 10.00m		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	4.00	Air/Mist	Grey	100%	3.00	200mm 150mm	3.00	200mm			04/04/2023 16:15	4.00	4.00		3.80	20mins	Slow to medium
Drill Bit Type		PCD		Drill Bit Condition		Fair		Core Barrel Type		Conventional Double Tube		Core Barrel Length		1.50			
Remarks Hand excavated inspection pit from GL to 1.20m. Dynamic sapling from 1.20m to 4.00m. Rotary coring from 4.00m to 10.00m.																	

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284573.76	Equipment	Beretta T44/Insulated hand tools
Client	Walters UK Ltd	Northing	210446.75	Method	WLS/RC/IP
Project No	G23012	Level	238.37 mAOD	Termination Reason	Scheduled depth

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	6 APRIL 2023
Exploratory Hole Number	S2-BH245	Box / Face Number	
Depth (m) from	1.20 to 2.00	Engineer	A







S2-BH245 1.20 m to 2.00 m

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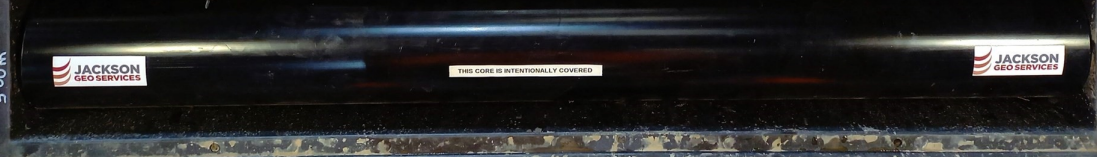




Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	6 APRIL 2023
Exploratory Hole Number	S2-BH245	Box / Face Number	
Depth (m) from	2.00 to 3.00	Engineer	A







S2-BH245 2.00 m to 3.00 m

		EXPLORATORY HOLE PHOTOGRAPHS		Exploratory Hole S2-BH245	
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284573.76	Equipment	Beretta T44/Insulated hand tools
Client	Walters UK Ltd	Northing	210446.75	Method	WLS/RC/IP
Project No	G23012	Level	238.37 mAOD	Termination Reason	Scheduled depth

Sheet 2 of 4

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Project Name	GCRE STAGE 2		Project Number	923012	
Client	WALTERS GROUP		Date	6 APRIL 2023	
Exploratory Hole Number	S2-BH245		Box / Face Number		
Depth (m) from	3.00 to 4.00		Engineer	A	
					
					

S2-BH245 3.00 m to 4.00 m

Jackson Geoservices Unit B3, Fram Enterprise Centre Parc Busnes Edwards, Llantrisant Pontyclun, CF72 8QZ		Email: team@jacksongeo.co.uk Telephone: 02920 099 769			
					
Project Name	GCRE STAGE 2		Project Number	923012	
Client	WALTERS GROUP		Date	6 APRIL 2023	
Exploratory Hole Number	S2-BH245		Box / Face Number		
Depth (m) from	5.00 to 6.00		Engineer	A	
					
					

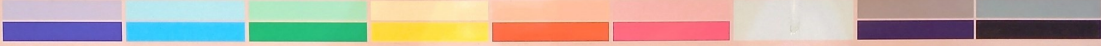
S2-BH245 5.00 m to 6.00 m

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284573.76	Equipment	Beretta T44/Insulated hand tools	Sheet 3 of 4
Client	Walters UK Ltd	Northing	210446.75	Method	WLS/RC/IP	
Project No	G23012	Level	238.37 mAOD	Termination Reason	Scheduled depth	

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	6 APRIL 2023
Exploratory Hole Number	S2-BH245	Box / Face Number	
Depth (m) from	6.00 to 7.00	Engineer	A



6.00m



7.00m

7.00m



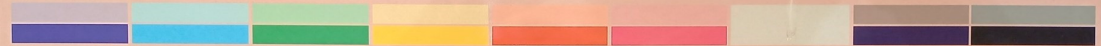
(8.00m)

S2-BH245 6.00 m to 7.00 m

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	6 APRIL 2023
Exploratory Hole Number	S2-BH245	Box / Face Number	
Depth (m) from	7.00 to 8.00	Engineer	A



6.00m



7.00m

7.00m



(8.00m)

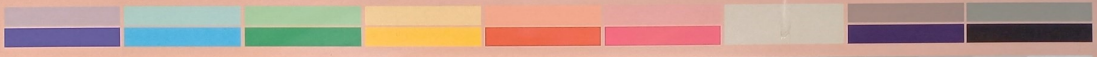
S2-BH245 7.00 m to 8.50 m

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284573.76	Equipment	Beretta T44/Insulated hand tools	Sheet 4 of 4
Client	Walters UK Ltd	Northing	210446.75	Method	WLS/RC/IP	
Project No	G23012	Level	238.37 mAOD	Termination Reason	Scheduled depth	

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	6 APRIL 2023
Exploratory Hole Number	S2-BH245	Box / Face Number	
Depth (m) from	8.50 to 10.00	Engineer	A



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



8.50m

10.00m

9.50m

S2-BH245 8.50 m to 10.00 m

Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	S2-BH246	
30/03/2023 08:00	0.00				
30/03/2023 16:35	8.00	8.00	3.00	Sheet 1 of 2	
31/03/2023 08:00	8.00	8.00	3.00	Scale	1:25
31/03/2023 14:48	10.00	10.00	3.00	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
8.00	10.00	Air/Mist	Grey/ brown	100%	10.00	150mm	3.00	200mm			30/03/2023 11:53	3.00	3.20		3.00	20mins	
Drill Bit Type		PCD			Drill Bit Condition		Good		Core Barrel Type		Conventional Double Tube		Core Barrel Length			1.50	

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Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	S2-BH246	
				Sheet 2 of 2	
				Scale	1:25
				Drilled	KO
				Logged	AF
				Checked	AP

Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
8.00	10.00	Air/Mist	Grey/ brown	100%	10.00	150mm	3.00	200mm			30/03/2023 11:53	3.00	3.20		3.00	20mins	
Drill Bit Type		PCD			Drill Bit Condition		Good		Core Barrel Type		Conventional Double Tube		Core Barrel Length			1.50	

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Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284802.86	Equipment	Comacchio 305/Insulated hand tools	Sheet 1 of 4
Client	Walters UK Ltd	Northing	210450.50	Method	RC/IP/DS	
Project No	G23012	Level	237.58 mAOD	Termination Reason	Scheduled depth	



S2-BH246 1.20 m to 2.00 m



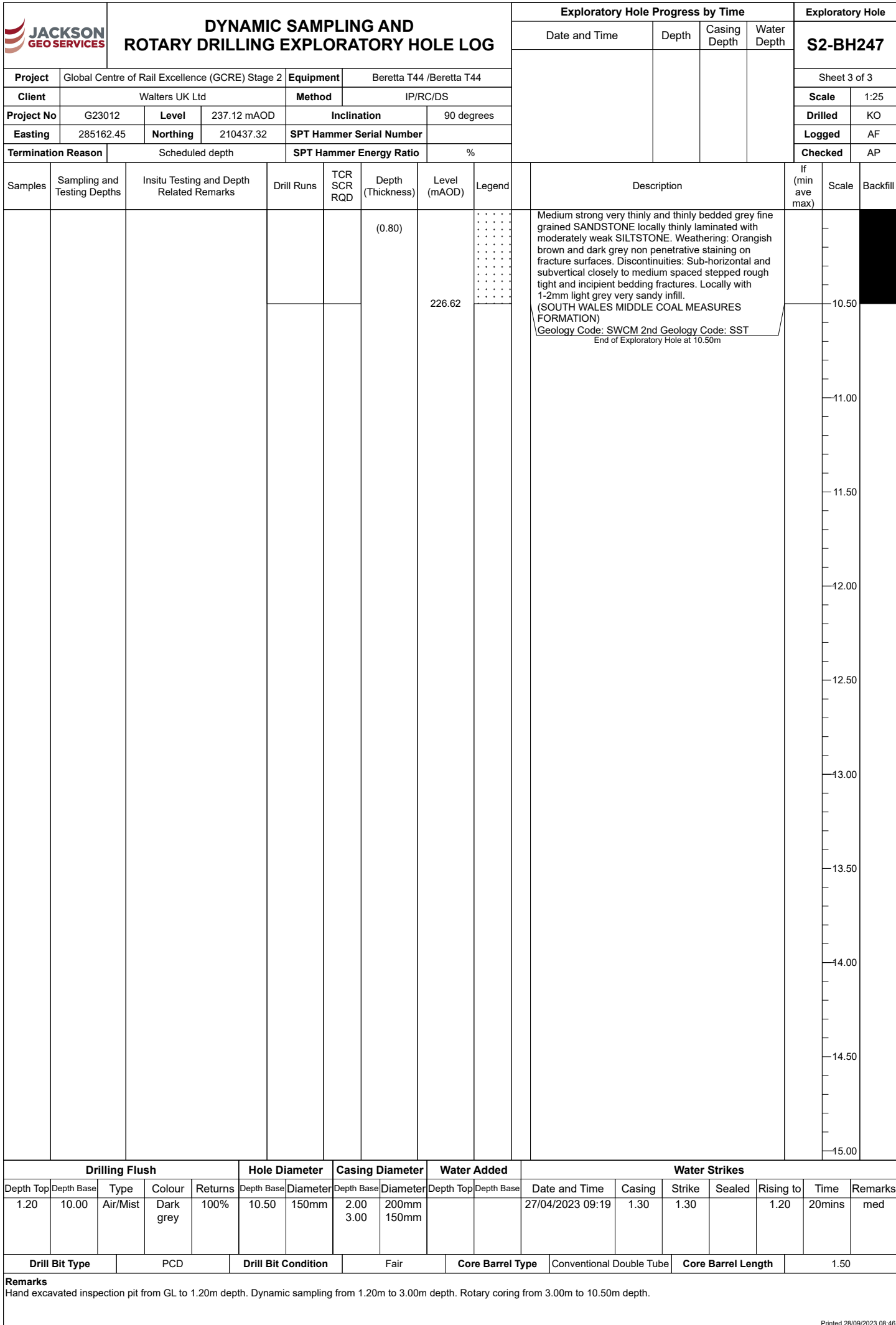
S2-BH246 2.00 m to 3.00 m



Exploratory Hole Progress by Time				Exploratory Hole									
Date and Time		Depth	Casing Depth	Water Depth	S2-BH247 Sheet 1 of 3 <table><tr><td>Scale</td><td>1:25</td></tr><tr><td>Drilled</td><td>KO</td></tr><tr><td>Logged</td><td>AF</td></tr><tr><td>Checked</td><td>AP</td></tr></table>	Scale	1:25	Drilled	KO	Logged	AF	Checked	AP
Scale	1:25												
Drilled	KO												
Logged	AF												
Checked	AP												
27/04/2023 07:00		0.00	0.00	Wet									
27/04/2023 16:30		10.50	3.00										

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
1.20	10.00	Air/Mist	Dark grey	100%	10.50	150mm	2.00	200mm			27/04/2023 09:19	1.30	1.30		1.20	20mins	med
Drill Bit Type		PCD			Drill Bit Condition		Fair		Core Barrel Type		Conventional Double Tube		Core Barrel Length			1.50	

Remarks
Hand excavated inspection pit from GL to 1.20m depth. Dynamic sampling from 1.20m to 3.00m depth. Rotary coring from 3.00m to 10.50m depth.





S2-BH247



Exploratory Hole Progress by Time				Exploratory Hole		
Date and Time		Depth	Casing Depth	Water Depth	S2-BH248	
24/04/2023 07:06		0.00	0.00	5.60		
24/04/2023 16:52		10.00	9.00			
25/04/2023 07:00		10.00	9.00		5.30	
25/04/2023 11:30		10.00	9.00		5.30	
					Sheet 1 of 2	
					Scale	1:25
					Drilled	KO
					Logged	AF
					Checked	AP

Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	10.00	Air/Mist	Grey	100%	6.00 10.00	200mm 150mm	6.00 9.00	200mm 150mm			24/04/2023 12:45	6.00	6.00		5.50	20mins	
Drill Bit Type					Drill Bit Condition				Core Barrel Type					Core Barrel Length			
Remarks Hand excavated inspection pit from GL to 1.20m depth. Dynamic sampling from 1.20m to 10.00m depth.																	

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