

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	281434.83	Equipment	Eijkelpamp-Fraste SRS ML Duo/ Insulated Hand Tools
Client	Walters UK Ltd	Northing	211384.01	Method	SNC/IP
Project No	G23012	Level	251.16 mAOD	Termination Reason	Scheduled depth

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	13 JUNE 2023
Exploratory Hole Number	S2-BH224	Box / Face Number	
Depth (m) from	0.00 to 2.00	Engineer	RF




S2-BH224 0.00 m to 2.00 m

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	13 JUNE 2023
Exploratory Hole Number	S2-BH224	Box / Face Number	
Depth (m) from	2.00 to 4.00	Engineer	RF

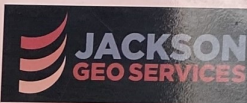



S2-BH224 2.00 m to 4.00 m

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	281434.83	Equipment	Eijkelpamp-Fraste SRS ML Duo/ Insulated Hand Tools
Client	Walters UK Ltd	Northing	211384.01	Method	SNC/IP
Project No	G23012	Level	251.16 mAOD	Termination Reason	Scheduled depth

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	13 JUNE 2023
Exploratory Hole Number	S2-BH224	Box / Face Number	
Depth (m) from	4:00 to 6:00	Engineer	RF




S2-BH224 4.00 m to 6.00 m

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	13 JUNE 2023
Exploratory Hole Number	S2-BH224	Box / Face Number	
Depth (m) from	6:00 to 8:00	Engineer	RF




S2-BH224 6.00 m to 8.00 m

EXPLORATORY HOLE PHOTOGRAPHS

Exploratory Hole

S2-BH224

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	281434.83	Equipment	Eijkelpamp-Fraste SRS ML Duo/ Insulated Hand Tools
Client	Walters UK Ltd	Northing	211384.01	Method	SNC/IP
Project No	G23012	Level	251.16 mAOD	Termination Reason	Scheduled depth

Sheet 3 of 3

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	13 JUNE 2023
Exploratory Hole Number	S2-BH224	Box / Face Number	
Depth (m) from	8.00 to 10.00	Engineer	RF



S2-BH224 8.00 m to 10.00 m

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Exploratory Hole Progress by Time				Exploratory Hole									
Date and Time	Depth	Casing Depth	Water Depth	S2-BH225 Sheet 3 of 6 <table><tr><td>Scale</td><td>1:25</td></tr><tr><td>Drilled</td><td>CJ</td></tr><tr><td>Logged</td><td>AF</td></tr><tr><td>Checked</td><td>AP</td></tr></table>		Scale	1:25	Drilled	CJ	Logged	AF	Checked	AP
Scale	1:25												
Drilled	CJ												
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
3.00	25.60	Air/Mist	Dark grey/ black	100%	25.60	92mm	4.50	178mm			28/04/2023 12:20	4.50	6.00		4.50	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 Progress by Time				Exploratory Hole									
Date and Time	Depth	Casing Depth	Water Depth	S2-BH225 Sheet 4 of 6 <table><tr><td>Scale</td><td>1:25</td></tr><tr><td>Drilled</td><td>CJ</td></tr><tr><td>Logged</td><td>AF</td></tr><tr><td>Checked</td><td>AP</td></tr></table>		Scale	1:25	Drilled	CJ	Logged	AF	Checked	AP
Scale	1:25												
Drilled	CJ												
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
3.00	25.60	Air/Mist	Dark grey/ black	100%	25.60	92mm	4.50	178mm			28/04/2023 12:20	4.50	6.00		4.50	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				Exploratory Hole
						S2-BH225
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283383.53	Equipment	Terredo DC3/Insulated hand tools	Sheet 1 of 9
Client	Walters UK Ltd	Northing	211372.37	Method	RO/IP/RC/DS	
Project No	G23012	Level	281.06 mAOD	Termination Reason	Scheduled depth	

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	2 MAY 2023
Exploratory Hole Number	S2-BH225	Box / Face Number	
Depth (m) from	1.20 to 2.20	Engineer	A





S2-BH225 1.20 m to 2.20 m

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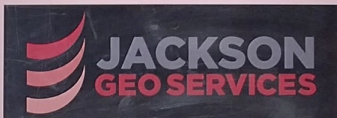
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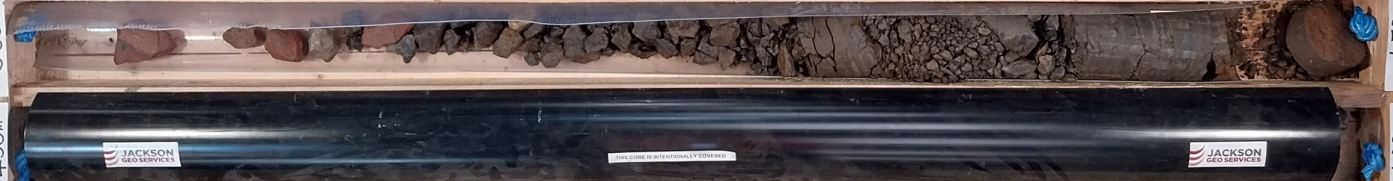
Telephone: 02920 099 769






Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	2 MAY 2023
Exploratory Hole Number	S2-BH225	Box / Face Number	
Depth (m) from	3.00 to 4.50	Engineer	KW





S2-BH225 3.00 m to 4.50 m

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-BH225
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283383.53	Equipment	Terredo DC3/Insulated hand tools	Sheet 3 of 9
Client	Walters UK Ltd	Northing	211372.37	Method	RO/IP/RC/DS	
Project No	G23012	Level	281.06 mAOD	Termination Reason	Scheduled depth	

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	2 MAY 2023
Exploratory Hole Number	S2-BH225	Box / Face Number	
Depth (m) from	7.50 to 9.00	Engineer	KW

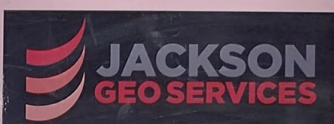




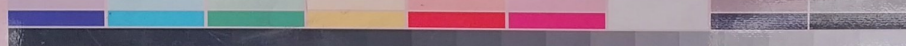
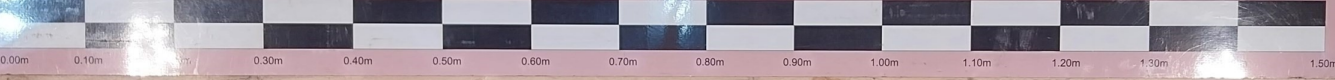

S2-BH225 7.50 m to 9.00 m

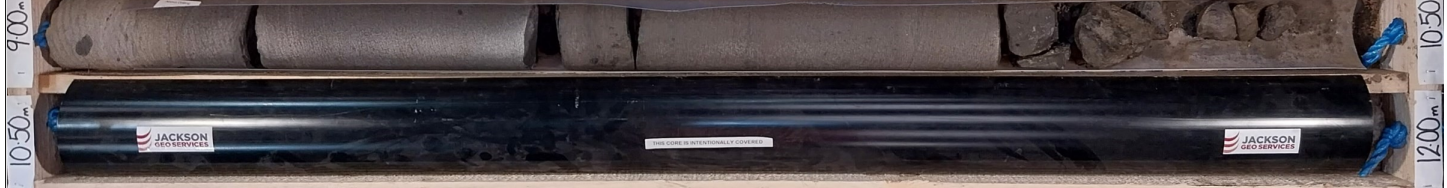
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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	2 MAY 2023
Exploratory Hole Number	S2-BH225	Box / Face Number	
Depth (m) from	9.00 to 10.50	Engineer	KW

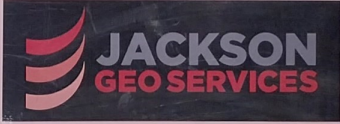


S2-BH225 9.00 m to 10.50 m

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-BH225
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283383.53	Equipment	Terredo DC3/Insulated hand tools	Sheet 4 of 9
Client	Walters UK Ltd	Northing	211372.37	Method	RO/IP/RC/DS	
Project No	G23012	Level	281.06 mAOD	Termination Reason	Scheduled depth	

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	2 MAY 2023
Exploratory Hole Number	S2-BH225	Box / Face Number	
Depth (m) from	10.50 to 12.00	Engineer	KW





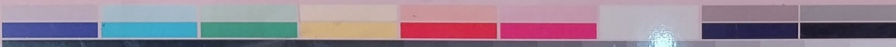
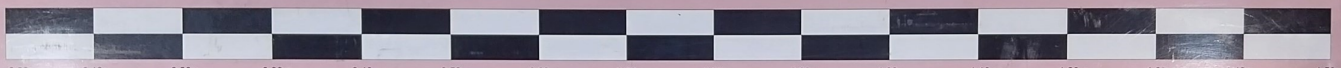
S2-BH225 10.50 m to 12.00 m

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	2 MAY 2023
Exploratory Hole Number	S2-BH225	Box / Face Number	
Depth (m) from	12.00 to 13.50	Engineer	KW


S2-BH225 12.00 m to 13.50 m

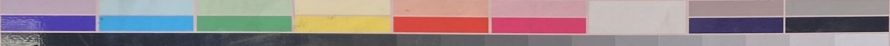
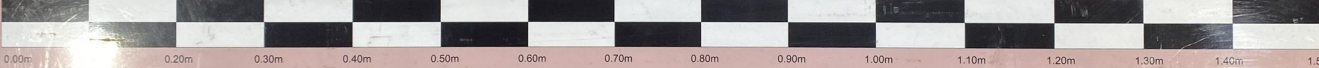
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						S2-BH225
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283383.53	Equipment	Terredo DC3/Insulated hand tools	Sheet 5 of 9
Client	Walters UK Ltd	Northing	211372.37	Method	RO/IP/RC/DS	
Project No	G23012	Level	281.06 mAOD	Termination 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-BH225	Box / Face Number	
Depth (m) from	13.50 to 15.00	Engineer	RF

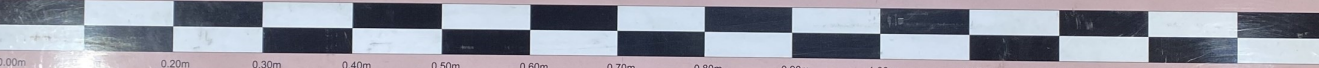

S2-BH225 13.50 m to 15.00 m

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	3 MAY 2023
Exploratory Hole Number	S2-BH225	Box / Face Number	
Depth (m) from	15.00 to 16.50	Engineer	RF


S2-BH225 15.00 m to 16.50 m

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-BH225
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283383.53	Equipment	Terredo DC3/Insulated hand tools	Sheet 6 of 9
Client	Walters UK Ltd	Northing	211372.37	Method	RO/IP/RC/DS	
Project No	G23012	Level	281.06 mAOD	Termination Reason	Scheduled depth	

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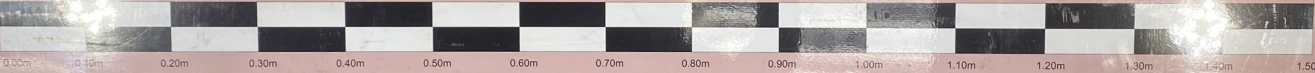
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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	3 MAY 2023
Exploratory Hole Number	S2-BH225	Box / Face Number	
Depth (m) from	16.50 to 18.00	Engineer	RF


S2-BH225 16.50 m to 18.00 m

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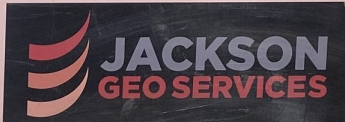
Unit B3, Fram Enterprise Centre

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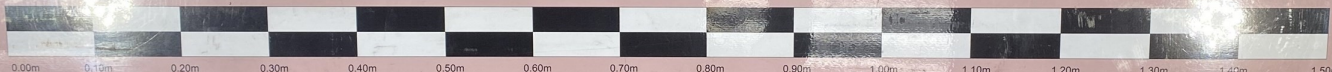
Pontyclun, CF72 8QZ

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Telephone: 02920 099 769



Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	3 MAY 2023
Exploratory Hole Number	S2-BH225	Box / Face Number	
Depth (m) from	18.00 to 19.50	Engineer	RF

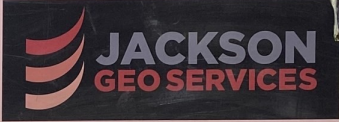




S2-BH225 18.00 m to 19.50 m

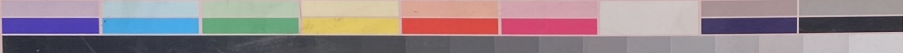
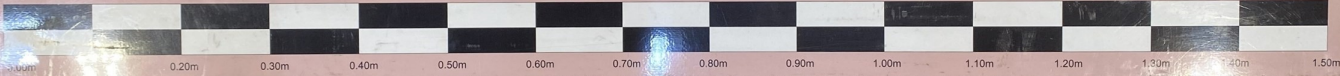
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						S2-BH225
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283383.53	Equipment	Terredo DC3/Insulated hand tools	Sheet 7 of 9
Client	Walters UK Ltd	Northing	211372.37	Method	RO/IP/RC/DS	
Project No	G23012	Level	281.06 mAOD	Termination Reason	Scheduled depth	

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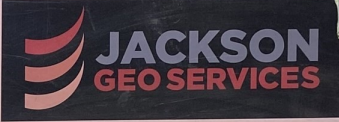
Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	3 MAY 2023
Exploratory Hole Number	S2-BH225	Box / Face Number	
Depth (m) from	19.50 to 21.00	Engineer	RF

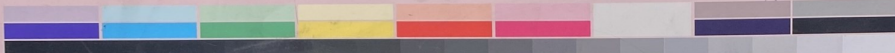

S2-BH225 19.50 m to 21.00 m

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	3 MAY 2023
Exploratory Hole Number	S2-BH225	Box / Face Number	
Depth (m) from	21.00 to 22.50	Engineer	RF



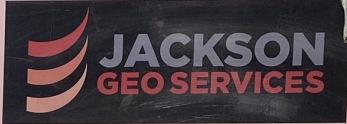


S2-BH225 21.00 m to 22.50 m

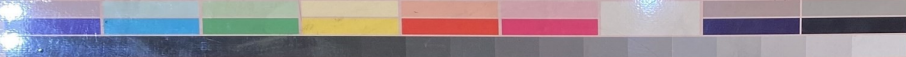
		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-BH225
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283383.53	Equipment	Terredo DC3/Insulated hand tools	Sheet 8 of 9
Client	Walters UK Ltd	Northing	211372.37	Method	RO/IP/RC/DS	
Project No	G23012	Level	281.06 mAOD	Termination 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-BH225	Box / Face Number	
Depth (m) from	22.50 to 23.20	Engineer	RF





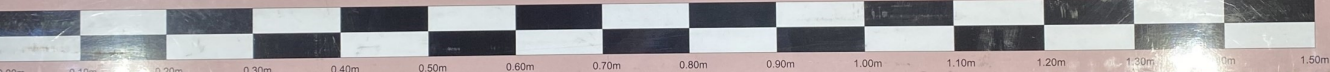
S2-BH225 22.50 m to 23.20 m

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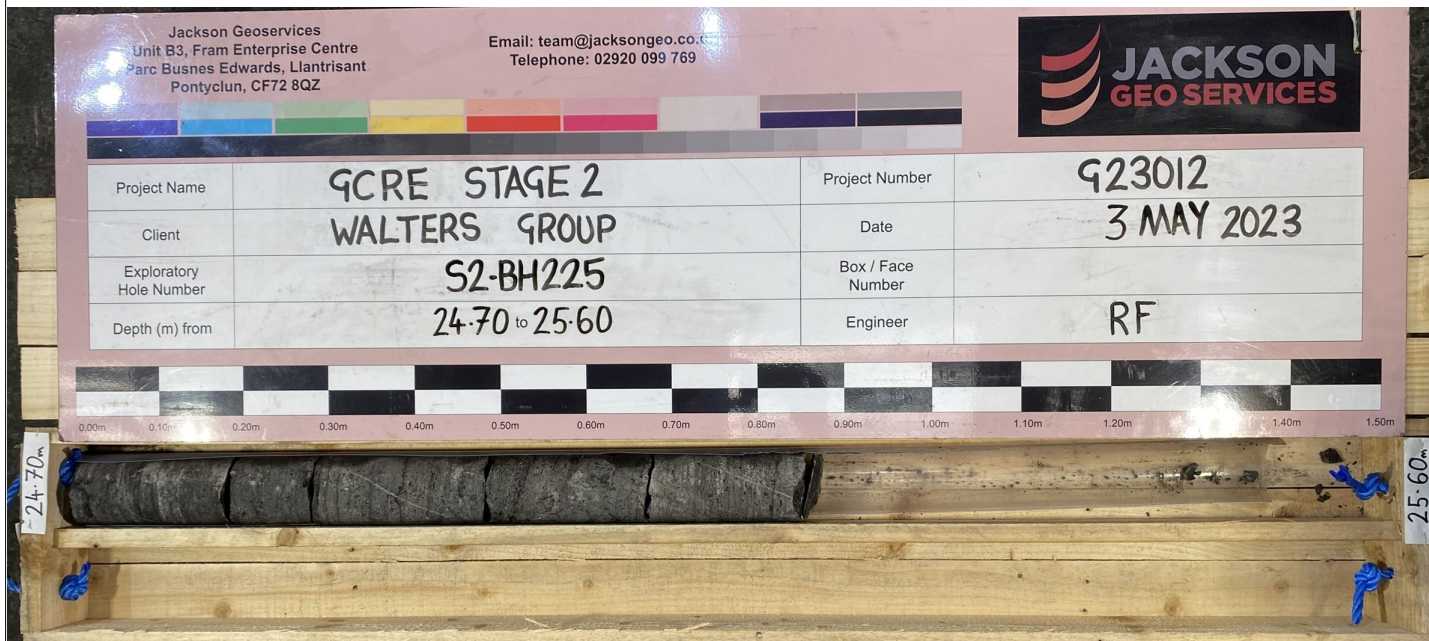
Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	3 MAY 2023
Exploratory Hole Number	S2-BH225	Box / Face Number	
Depth (m) from	23.20 to 24.70	Engineer	RF



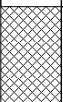
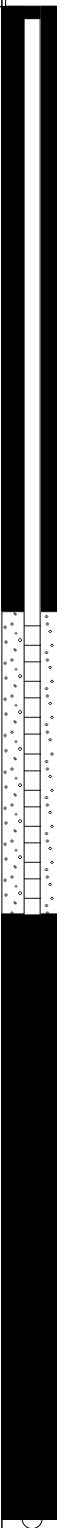
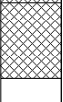
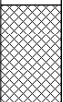
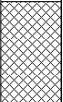


S2-BH225 23.20 m to 24.70 m

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283383.53	Equipment	Terredo DC3/Insulated hand tools	Sheet 9 of 9
Client	Walters UK Ltd	Northing	211372.37	Method	RO/IP/RC/DS	
Project No	G23012	Level	281.06 mAOD	Termination Reason	Scheduled depth	



S2-BH225 24.70 m to 25.60 m

		SONIC DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	S2-BH226				
Project		Global Centre of Rail Excellence (GCRE) Stage 2			Equipment		Eijkelpamp-Fraste SRS ML Duo		11/05/2023 11:30 12/05/2023 10:30		0.00 10.00	10.00	Wet	Sheet 1 of 1			
Client		Walters UK Ltd			Method		SNC							Scale	1:50		
Project No		G23012		Level	257.77 mAOD		Inclination		90 degrees				Drilled		JO		
Easting		283951.81		Northing	211172.61		SPT Hammer Serial Number						Logged				
Termination Reason		Scheduled depth			SPT Hammer Energy Ratio		%						Checked		AP		
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks			Drill Runs	TCR	Depth (Thickness)	Level (mAOD)	Legend	Description			Scale	Backfill			
1 ES 2 D 3 ES 4 B 5 ES 101 B	0.20 - 0.30 0.20 0.30 - 0.40 0.50 - 0.60 0.50 0.70 - 0.90 0.90 - 1.00 0.90 1.20 - 2.50	PID: 0.0ppmv PID: 0.0ppmv PID: 0.0ppmv			0.00 - 2.00	90%	0.00 (0.70) 0.70 (0.30) 1.00	257.07 256.77		Firm greyish brown sandy gravely CLAY. Gravel is subangular to subrounded fine to coarse mudstone. Sand is fine to coarse. (MADE GROUND) Geology Code: MGR 2nd Geology Code: CL 0.00m - 0.20m AZCL			0.50				
							(1.50)			Dark grey slightly sandy clayey angular to subangular fine to coarse GRAVEL of siltstone with low cobble content. Cobbles are angular to subangular siltstone and mudstone (120×100×60mm). Sand is fine to medium. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR			1.00				
										Dark grey clayey angular fine to coarse GRAVEL of siltstone, sandstone and mudstone. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR			1.50				
102 ES	1.90 - 2.00 1.90	PID: 0.0ppmv			2.00 - 4.00	50%	2.50 (0.50)	255.27		2.00m - 2.50m Becoming sandy. Gravel is angular to subrounded. Sand is fine and medium.			2.00				
103 D 104 ES	2.60 - 2.70 2.90 - 3.00 2.90	PID: 0.0ppmv					3.00	254.77		Stiff locally very stiff dark grey slightly sandy very gravely silty CLAY. Gravel is angular and subangular fine to coarse of sandstone, siltstone and mudstone. Sand is fine. (MADE GROUND) Geology Code: MGR 2nd Geology Code: CL NO RECOVERY. Fill (Driller's description). (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR			2.50				
							(1.00)						3.00				
													3.50				
105 B	4.00 - 4.80				4.00 - 6.00	45%	4.00 (0.90)	253.77		Dark grey sandy clayey angular to subrounded fine to coarse GRAVEL of siltstone and sandstone. Sand is fine and medium. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR			4.00				
106 ES	4.70 - 4.80 4.70	PID: 0.0ppmv					4.90	252.87		4.80m - 4.90m Very stiff gravely clay NO RECOVERY. Fill (Driller's description). (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR			4.50				
							(1.10)						5.00				
108 B 107 ES	6.00 - 7.00 6.10 - 6.20 6.10	PID: 0.1ppmv			6.00 - 8.00	50%	6.00 (1.00)	251.77		Dark grey sandy clayey angular to subrounded fine to coarse GRAVEL of siltstone, mudstone and sandstone. Sand is fine and medium. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR			6.00				
							7.00	250.77		6.80m - 6.90m Very stiff gravely clay NO RECOVERY. Fill (Driller's description). (MADE GROUND) Geology Code: MGR			6.50				
							(1.80)						7.00				
109 ES	8.00 - 8.10 8.00	PID: 0.2ppmv			8.00 - 10.00	60%	8.80	248.97		Stiff locally very stiff dark grey slightly sandy very gravely silty CLAY. Gravel is angular and subangular fine to coarse of sandstone, siltstone and mudstone. Sand is fine. (MADE GROUND) Geology Code: MGR 2nd Geology Code: CL			7.50				
													8.00				
													8.50				
110 ES 111 D	9.00 - 9.10 9.00 9.40 - 9.50	PID: 0.1ppmv								End of Exploratory Hole at 10.00m			9.00				
													9.50				
								247.77					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
					10.00	101mm	10.00	177mm	0.00	10.00							
Remarks Sonic drilling from GL to 10.00m.																	

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		EXPLORATORY HOLE PHOTOGRAPHS		Exploratory Hole	
				S2-BH226	
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283951.81	Equipment	Eijkelpamp-Fraste SRS ML Duo
Client	Walters UK Ltd	Northing	211172.61	Method	SNC
Project No	G23012	Level	257.77 mAOD	Termination Reason	Scheduled depth

Sheet 2 of 3

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	G23012
Client	WALTERS GROUP	Date	15 MAY 2023
Exploratory Hole Number	S2-BH226	Box / Face Number	
Depth (m) from	4.00 to 6.00	Engineer	KW




S2-BH226 4.00 m to 6.00 m

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	15 MAY 2023
Exploratory Hole Number	S2-BH226	Box / Face Number	
Depth (m) from	6.00 to 8.00	Engineer	KW




S2-BH226 6.00 m to 8.00 m



EXPLORATORY HOLE PHOTOGRAPHS

Exploratory Hole

S2-BH226

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283951.81	Equipment	Eijkelkamp-Fraste SRS ML Duo
Client	Walters UK Ltd	Northing	211172.61	Method	SNC
Project No	G23012	Level	257.77 mAOD	Termination Reason	Scheduled depth

Sheet 3 of 3

Jackson Geoservices
Unit B3, Fram Enterprise Centre
Parc Busnes Edwards, Llantrisant
Pontyclun, CF72 8QZ

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

Project Name

GCRE STAGE 2

Project Number

G23012

Client

WALTERS GROUP

Date

15 MAY 2023

Exploratory Hole Number

S2-BH226

Box / Face Number

Depth (m) from

8.00 to 10.00

Engineer

KW

0.00m

0.10m

0.20m

0.30m

0.40m

0.50m

0.60m

0.70m

0.80m

0.90m

1.00m

8.0M

10.0M

S2-BH226 8.00 m to 10.00 m



Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	S2-BH227	
13/04/2023 08:00	0.00	0.00	Dry Dry Dry Dry Dry Dry		
13/04/2023 17:00	7.50	7.50			
14/04/2023 08:00	7.50	7.50		Sheet 1 of 5	
14/04/2023 17:00	15.00	12.00		Scale	1:25
17/04/2023 08:00	15.00	12.00		Drilled	CJ
17/04/2023 17:00	20.80	12.00		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	
6.20	20.80	Air/Mist	Brown	100%	6.00 20.80	178mm 140mm	6.00 12.00	178mm 140mm										
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-BH227	
				Sheet 3 of 5	
				Scale	1:25
				Drilled	CJ
				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
6.20	20.80	Air/Mist	Brown	100%	6.00 20.80	178mm 140mm	6.00 12.00	178mm 140mm									
Drill Bit Type		PCD			Drill Bit Condition		Good		Core Barrel Type		Conventional Double Tube		Core Barrel Length			1.50	

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