

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP239
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283739.40	Equipment	JCB 220X 1c	Sheet 3 of 5
Client	Walters UK Ltd	Northing	211089.29	Method	TP	
Project No	G23012	Level	265.63 mAOD	Termination Reason	Extended to 4.00m on instruction	



S2-TP239 Spoil



S2-TP239 Face B

		EXPLORATORY HOLE PHOTOGRAPHS		Exploratory Hole	
				S2-TP239	
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283739.40	Equipment	JCB 220X 1c
Client	Walters UK Ltd	Northing	211089.29	Method	TP
Project No	G23012	Level	265.63 mAOD	Termination Reason	Extended to 4.00m on instruction

Sheet 4 of 5



S2-TP239 Face A

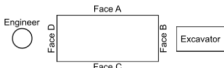


S2-TP239 Face D

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP239
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283739.40	Equipment	JCB 220X 1c	Sheet 5 of 5
Client	Walters UK Ltd	Northing	211089.29	Method	TP	
Project No	G23012	Level	265.63 mAOD	Termination Reason	Extended to 4.00m on instruction	



S2-TP239 Pre Excavation

				TRIAL PIT EXPLORATORY HOLE LOG				Exploratory Hole Progress by Time			Exploratory Hole	
Date and Time		Depth	Water Depth					S2-TP240				
25/04/2023 15:45		0.00	Dry	Sheet 1 of 1								
25/04/2023 16:25		3.50										
Project		Global Centre of Rail Excellence (GCRE) Stage 2				Equipment		JCB 220X Ic				
Client		Walters UK Ltd				Method		TP				
Project No		G23012	Level	275.47 mAOD	Orientation		270 degrees					
Easting		283338.44	Northing	211088.68	Length		4.00					
Termination Reason		Scheduled depth		Width		0.60		Scale		1:20		
Checked		AP										
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks		Depth (Thickness)	Level (mAOD)	Legend	Description		Scale	Backfill		
1 ES 2 B	0.20 - 0.30 0.20 - 0.40 0.20	PID: 0.2ppmv		0.00			Greyish brown and brown occasionally stained orangish brown sandy silty angular to subrounded fine to coarse GRAVEL of siltstone, sandstone, mudstone and rare coal with low cobble content. Cobbles are angular of medium strong siltstone. Sand is fine and medium. Occasional irregular pockets of silty clay (up to 250mm) (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR					
3 ES 4 B	0.50 - 0.60 0.50 0.60 - 0.80	PID: 0.2ppmv		(1.50)					0.50			
5 ES	0.90 - 1.00 0.90	PID: 0.1ppmv							1.00			
6 B	1.60 - 1.80			1.50	273.97		Dark brown spongy fibrous PEAT with frequent roots and rootlets (up to 3mm) and rare plant remains (up to 30mm). Moderate organic odour. (PEAT) Geology Code: PEAT		1.50			
7 D	1.70 - 1.80			(0.40)								
8 ES	1.80 - 1.90 1.80	PID: 0.3ppmv		1.90	273.57		Soft to firm grey mottled yellow sandy slightly gravelly sandy silty CLAY with low cobble content. Gravel is subangular to rounded fine to coarse of siltstone, sandstone and limestone. Cobbles are subrounded of medium strong siltstone and limestone. Sand is fine and medium. Rare relict roots (up to 3mm) and rare pockets of pinkish brown medium sand (up to 50mm). (GLACIAL TILL) Geology Code: GT 2nd Geology Code: CL 1.90m - 2.10m Locally very soft and soft.		2.00			
9 D	2.00 - 2.10								2.50			
10 ES	2.20 2.20 2.20 2.30 - 2.40 2.30	HV: P: 31kPa R: 18kPa HV: P: 34kPa R: 21kPa HV: P: 9kPa R: 8kPa PID: 0.1ppmv		(1.10)								
11 D	2.50 - 2.60								3.00			
12 D	2.70 2.70 2.70 3.00 - 3.10 3.00 - 3.50	HV: P: 19kPa R: 16kPa HV: P: 35kPa R: 22kPa HV: P: 42kPa R: 22kPa Too gravelly for hand vanes		3.00	272.47		Soft grey mottled dark yellowish grey sandy sandy gravelly silty CLAY with low cobble content. Gravel is angular and subangular fine to coarse of siltstone, mudstone and limestone. Cobbles are subangular of medium strong siltstone and limestone. Sand is fine and medium. Rare fragments of black organic matter (up to 10mm) and rare pockets of pinkish brown medium sand (up to 50mm). (GLACIAL TILL) Geology Code: GT 2nd Geology Code: CL		3.50			
				(0.50)			End of Exploratory Hole at 3.50m		4.00			
Weather		Overcast, dry		Trial Pit Excavation Onsite Layout 				Water Strikes				
Shoring		None						Date and Time	Strike	Rising to	Time	Remarks
Stability		Stable										
Log presents Face A unless otherwise noted.												
Remarks												
Machine excavated trial pit from GL to 3.50m												

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		EXPLORATORY HOLE PHOTOGRAPHS		Exploratory Hole	
				S2-TP240	
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283338.44	Equipment	JCB 220X 1c
Client	Walters UK Ltd	Northing	211088.68	Method	TP
Project No	G23012	Level	275.47 mAOD	Termination Reason	Scheduled depth

Sheet 1 of 4



S2-TP240 Pre Excavation



S2-TP240 Face C

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP240
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283338.44	Equipment	JCB 220X 1c	Sheet 2 of 4
Client	Walters UK Ltd	Northing	211088.68	Method	TP	
Project No	G23012	Level	275.47 mAOD	Termination Reason	Scheduled depth	



S2-TP240 Post Excavation



S2-TP240 Face B

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP240
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283338.44	Equipment	JCB 220X 1c	Sheet 3 of 4
Client	Walters UK Ltd	Northing	211088.68	Method	TP	
Project No	G23012	Level	275.47 mAOD	Termination Reason	Scheduled depth	



S2-TP240 Face D



S2-TP240 Face A

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP240
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283338.44	Equipment	JCB 220X 1c	Sheet 4 of 4
Client	Walters UK Ltd	Northing	211088.68	Method	TP	
Project No	G23012	Level	275.47 mAOD	Termination Reason	Scheduled depth	



S2-TP240 Spoil

		TRIAL PIT EXPLORATORY HOLE LOG					Exploratory Hole Progress by Time			Exploratory Hole		
							Date and Time		Depth	Water Depth	S2-TP241	
							24/04/2023 15:15 24/04/2023 16:20		0.00 3.50	Dry		
Project	Global Centre of Rail Excellence (GCRE) Stage 2			Equipment	JCB 220X Ic			Sheet 1 of 1				
Client	Walters UK Ltd			Method	TP			Scale	1:20			
Project No	G23012	Level	279.25 mAOD	Orientation		100 degrees		Logged	CE			
Easting	282545.84	Northing	211063.38	Length		4.00		Checked	AP			
Termination Reason		Scheduled depth		Width		0.60						
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks		Depth (Thickness)	Level (mAOD)	Legend	Description	Scale	Backfill			
1 ES 2 B	0.20 - 0.30 0.20 - 0.40 0.20	PID: 0.0ppmv		0.00 (0.40)	278.85		Brown with occasional orangish brown staining slightly sandy clayey angular to subrounded fine to coarse GRAVEL of siltstone and sandstone. Sandy is fine and medium. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR					
3 ES 4 B	0.50 - 0.60 0.50 0.60 - 0.80	PID: 0.0ppmv		0.40			Dark grey with occasional orangish brown staining sandy clayey angular and subangular fine to coarse GRAVEL of siltstone, sandstone and mudstone with high cobble content and low boulder content. Cobbles (200x120x70mm) boulders (300x200x200mm) are angular of medium strong siltstone and sandstone. Sand is fine to coarse. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR					
5 ES	0.90 - 1.00 0.90	PID: 0.0ppmv										
6 B	1.60 - 1.80											
7 ES	1.90 - 2.00 1.90	PID: 0.0ppmv		(3.10)								
8 B	2.60 - 2.80											
9 ES	2.90 - 3.00 2.90	PID: 0.0ppmv										
							275.75			End of Exploratory Hole at 3.50m	3.50	
											4.00	
Weather	Dry, overcast		Trial Pit Excavation Onsite Layout				Water Strikes					
Shoring	None						Date and Time	Strike	Rising to	Time	Remarks	
Stability	Stable											
Remarks												
Machine excavated trial pit from GL to 3.50m												

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EXPLORATORY HOLE PHOTOGRAPHS

Exploratory Hole

S2-TP241

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282545.84	Equipment	JCB 220X 1c
Client	Walters UK Ltd	Northing	211063.38	Method	TP
Project No	G23012	Level	279.25 mAOD	Termination Reason	Scheduled depth

Sheet 1 of 4



S2-TP241 Face A



S2-TP241 Face C

		EXPLORATORY HOLE PHOTOGRAPHS		Exploratory Hole	
				S2-TP241	
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282545.84	Equipment	JCB 220X lc
Client	Walters UK Ltd	Northing	211063.38	Method	TP
Project No	G23012	Level	279.25 mAOD	Termination Reason	Scheduled depth

Sheet 2 of 4



S2-TP241 Pre Excavation



S2-TP241 Face D

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282545.84	Equipment	JCB 220X 1c	Sheet 3 of 4
Client	Walters UK Ltd	Northing	211063.38	Method	TP	
Project No	G23012	Level	279.25 mAOD	Termination Reason	Scheduled depth	



S2-TP241 Spoil



S2-TP241 Face B

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP241
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282545.84	Equipment	JCB 220X 1c	Sheet 4 of 4
Client	Walters UK Ltd	Northing	211063.38	Method	TP	
Project No	G23012	Level	279.25 mAOD	Termination Reason	Scheduled depth	



S2-TP241 Post Excavation

		TRIAL PIT EXPLORATORY HOLE LOG					Exploratory Hole Progress by Time			Exploratory Hole		
							Date and Time		Depth	Water Depth	S2-TP242	
							25/04/2023 14:30 25/04/2023 15:00		0.00 3.50	Dry		
Project	Global Centre of Rail Excellence (GCRE) Stage 2			Equipment	JCB 220X Ic			Sheet 1 of 1				
Client	Walters UK Ltd			Method	TP			Scale	1:20			
Project No	G23012	Level	292.16 mAOD	Orientation		270 degrees		Logged	CE			
Easting	282952.55	Northing	211047.71	Length		4.00		Checked	AP			
Termination Reason		Scheduled depth		Width		0.60						
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks		Depth (Thickness)	Level (mAOD)	Legend	Description	Scale	Backfill			
1 ES 2 B	0.20 - 0.30 0.20 - 0.40 0.20	PID: 0.0ppmv		0.00 (0.40)	291.76		Brown occasional orangish brown staining slightly sandy clayey angular to subrounded fine to coarse GRAVEL of siltstone and sandstone. Sandy is fine and medium. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR					
3 ES 4 B	0.50 - 0.60 0.50 0.70 - 0.90	PID: 0.0ppmv		0.40			Dark grey with occasional orangish brown staining sandy clayey angular and subangular fine to coarse GRAVEL of siltstone, sandstone and mudstone with high cobble content and medium boulder content. Cobbles (200x120x70mm) boulders (600x400x400mm) are angular of medium strong siltstone and sandstone. Sand is fine to coarse. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR					
5 ES	0.90 - 1.00 0.90	PID: 0.0ppmv										
6 B	1.70 - 1.90											
7 ES	1.90 - 2.00 1.90	PID: 0.0ppmv		(3.10)								
8 B	2.70 - 2.90											
9 ES	2.90 - 3.00 2.90	PID: 0.1ppmv										
										End of Exploratory Hole at 3.50m	3.50	
											4.00	
Weather	Sunny	Trial Pit Excavation Onsite Layout					Water Strikes					
Shoring	None						Date and Time	Strike	Rising to	Time	Remarks	
Stability	Collapse 0.40-3.00m Faces A and C											
Remarks Machine excavated trial pit from GL to 3.50m												

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Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282952.55	Equipment	JCB 220X 1c
Client	Walters UK Ltd	Northing	211047.71	Method	TP
Project No	G23012	Level	292.16 mAOD	Termination Reason	Scheduled depth



S2-TP242 Spoil



S2-TP242 Face D

 JACKSON GEO SERVICES		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP242
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282952.55	Equipment	JCB 220X 1c	Sheet 2 of 4
Client	Walters UK Ltd	Northing	211047.71	Method	TP	
Project No	G23012	Level	292.16 mAOD	Termination Reason	Scheduled depth	



S2-TP242 Face B



S2-TP242 Post Excavation

		EXPLORATORY HOLE PHOTOGRAPHS		Exploratory Hole	
				S2-TP242	
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282952.55	Equipment	JCB 220X 1c
Client	Walters UK Ltd	Northing	211047.71	Method	TP
Project No	G23012	Level	292.16 mAOD	Termination Reason	Scheduled depth

Sheet 3 of 4



S2-TP242 Pre Excavation



S2-TP242 Face C

		EXPLORATORY HOLE PHOTOGRAPHS			Exploratory Hole	
					S2-TP242	
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282952.55	Equipment	JCB 220X 1c	Sheet 4 of 4
Client	Walters UK Ltd	Northing	211047.71	Method	TP	
Project No	G23012	Level	292.16 mAOD	Termination Reason	Scheduled depth	



S2-TP242 Face A

		TRIAL PIT EXPLORATORY HOLE LOG				Exploratory Hole Progress by Time			Exploratory Hole					
						Date and Time		Depth	Water Depth	S2-TP243				
Project		Global Centre of Rail Excellence (GCRE) Stage 2		Equipment		JCB 220X Ic		25/04/2023 11:20 25/04/2023 11:50		0.00 3.00	Dry	Sheet 1 of 1		
Client		Walters UK Ltd		Method		TP						Scale	1:20	
Project No		G23012		Level		291.92 mAOD		Orientation		305 degrees		Logged		CE
Easting		282352.57		Northing		210988.88		Length		4.00		Checked		AP
Termination Reason		Terminated due to collapse		Width		0.60								
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks		Depth (Thickness)	Level (mAOD)	Legend	Description					Scale	Backfill	
1 ES	0.20 - 0.30 0.20	PID: 0.0ppmv		0.00			Dark grey sandy silty angular and subangular fine to coarse GRAVEL of siltstone, sandstone and mudstone with high cobble content and medium boulder content. Cobbles (200x120x70mm) and boulders (up to 1000x800x600mm) are angular of medium strong siltstone and sandstone. Sand is fine to coarse. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR							
2 B	0.40 - 0.60													
3 ES	0.50 - 0.60 0.50	PID: 0.0ppmv										0.50		
4 ES	0.90 - 1.00 0.90	PID: 0.0ppmv										1.00		
5 B	1.20 1.40 - 1.60	Large boulder (in excess of 1.20m) encountered in Face B. Pit extended towards Face D.		(3.00)								1.50		
6 ES	1.90 - 2.00 1.90	PID: 0.0ppmv										2.00		
7 B	2.40 - 2.60											2.50		
8 ES	2.90 - 3.00 2.90	PID: 0.0ppmv			288.92							3.00		
							End of Exploratory Hole at 3.00m							
												3.50		
												4.00		
Weather		Sunny						Water Strikes						
Shoring		None						Date and Time		Strike	Rising to	Time	Remarks	
Stability		Collapse between GL-3.00m Faces A and C												
Remarks														
Machine excavated trial pit from GL to 3.00m														



EXPLORATORY HOLE PHOTOGRAPHS

Exploratory Hole

S2-TP243

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282352.57	Equipment	JCB 220X 1c
Client	Walters UK Ltd	Northing	210988.88	Method	TP
Project No	G23012	Level	291.92 mAOD	Termination Reason	Terminated due to collapse

Sheet 1 of 4

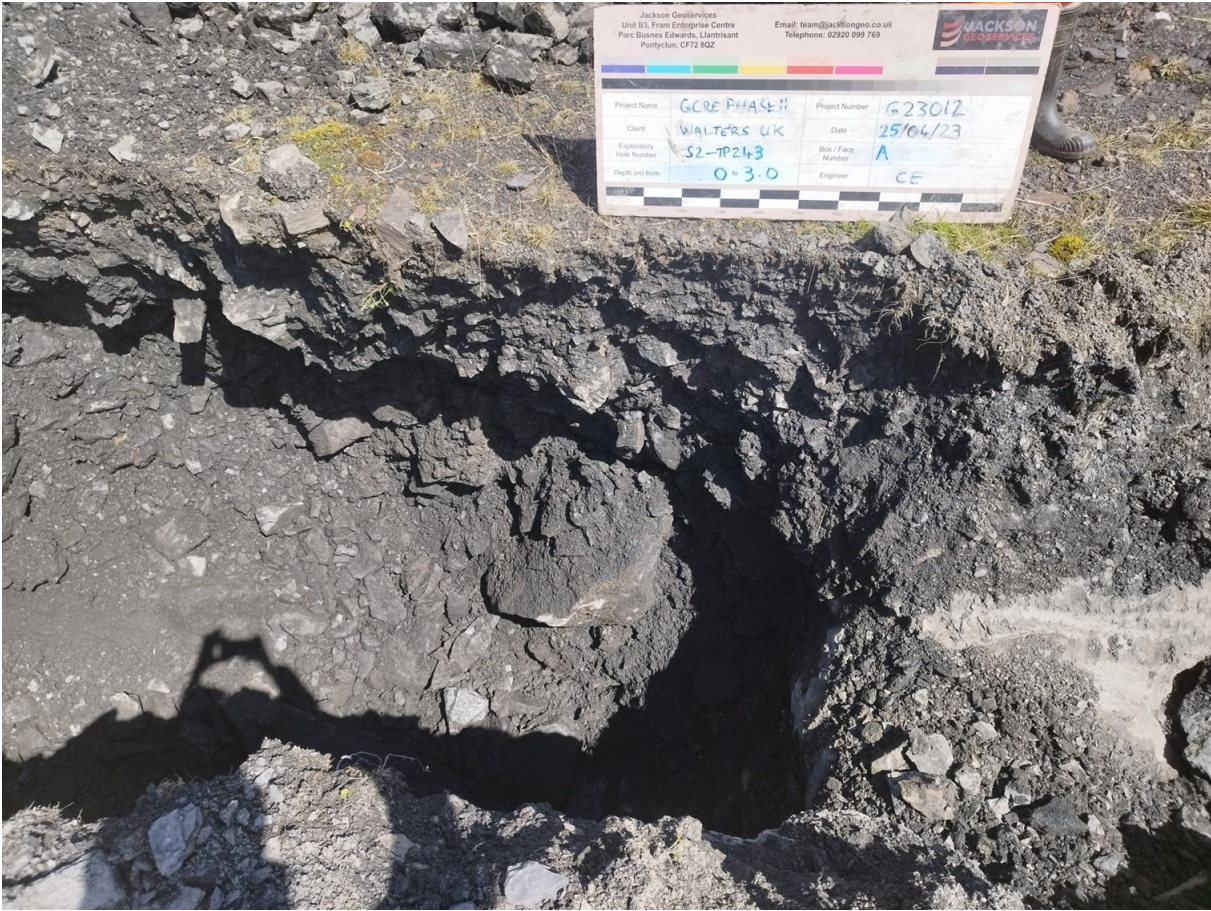


S2-TP243 Face D



S2-TP243 Face C

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282352.57	Equipment	JCB 220X 1c	Sheet 2 of 4
Client	Walters UK Ltd	Northing	210988.88	Method	TP	
Project No	G23012	Level	291.92 mAOD	Termination Reason	Terminated due to collapse	



S2-TP243 Face A



S2-TP243 Post Excavation