

EXPLORATORY HOLE PHOTOGRAPHS

Exploratory Hole

S2-TP279

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284678.09	Equipment	JCB 220X 1c	Sheet 2 of 4
Client	Walters UK Ltd	Northing	210506.91	Method	TP	
Project No	G23012	Level	236.28 mAOD	Termination Reason	Terminated due to water ingress	



S2-TP279 Face D



S2-TP279 Face C

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284678.09	Equipment	JCB 220X 1c	Sheet 3 of 4
Client	Walters UK Ltd	Northing	210506.91	Method	TP	
Project No	G23012	Level	236.28 mAOD	Termination Reason	Terminated due to water ingress	



S2-TP279 Face A



S2-TP279 Pre Excavation

EXPLORATORY HOLE PHOTOGRAPHS

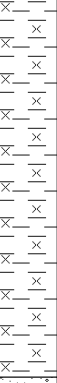
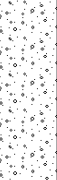
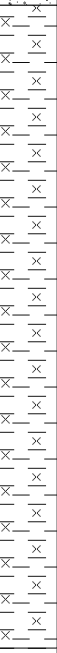
Exploratory Hole

S2-TP279

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284678.09	Equipment	JCB 220X 1c	Sheet 4 of 4
Client	Walters UK Ltd	Northing	210506.91	Method	TP	
Project No	G23012	Level	236.28 mAOD	Termination Reason	Terminated due to water ingress	



S2-TP279 Face B

				TRIAL PIT EXPLORATORY HOLE LOG				Exploratory Hole Progress by Time			Exploratory Hole							
Date and Time		Depth	Water Depth					S2-TP280										
27/04/2023 09:10 27/04/2023 09:50		0.00 3.50	Wet															
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	253.28 mAOD	Orientation		240 degrees		Logged		CE								
Easting	282811.02	Northing	210498.88	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 2 D	0.20 - 0.30 0.20 - 0.30 0.20	PID: 0.0ppmv		0.00	252.98		Dark brown and brown slightly sandy clayey SILT with frequent rootlets (up to 3mm). Sand is fine and medium. (TOPSOIL) Geology Code: GT 2nd Geology Code: SL			0.50								
				(0.30)														
				0.30														
3 ES 4 D	0.50 - 0.60 0.50 - 0.60 0.50 0.50 0.50 0.50	HV: P: 23kPa R: 12kPa HV: P: 32kPa R: 19kPa HV: P: 32kPa R: 21kPa PID: 0.0ppmv		(1.00)	251.98		Brown clayey very sandy subangular to rounded fine to coarse GRAVEL of siltstone and mudstone. Sand is fine to coarse. (GLACIAL TILL) Geology Code: GT 2nd Geology Code: GR			1.50								
				(0.50)														
				1.80														
5 ES 6 ES 7 D	0.90 - 1.00 0.90 - 1.00 0.90 1.00 - 1.10	PID: 0.0ppmv		251.48		Stiff locally firm dark grey gravelly silty CLAY with low cobble content. Gravel is angular to rounded of siltstone, sandstone and coal. Cobbles (150x 100 x60mm) are subangular and subrounded of medium strong siltstone and sandstone. (GLACIAL TILL) Geology Code: GT 2nd Geology Code: CL			2.00									
8 B	1.40 - 1.60 1.50 - 3.50										Too gravelly for hand vanes.		(1.70)	End of Exploratory Hole at 3.50m			3.50	
		10 D	2.40 - 2.50	End of Exploratory Hole at 3.50m			4.00											
11 D	2.90 - 3.00								End of Exploratory Hole at 3.50m			4.00						
														12 D	3.40 - 3.50	End of Exploratory Hole at 3.50m		
		End of Exploratory Hole at 3.50m			4.00													
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End of Exploratory Hole at 3.50m							4.00											
									End of Exploratory Hole at 3.50m			4.00						

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282811.02	Equipment	JCB 220X lc
Client	Walters UK Ltd	Northing	210498.88	Method	TP
Project No	G23012	Level	253.28 mAOD	Termination Reason	Terminated due to collapse



S2-TP280 Face B



S2-TP280 Face A

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP280
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282811.02	Equipment	JCB 220X 1c	Sheet 2 of 4
Client	Walters UK Ltd	Northing	210498.88	Method	TP	
Project No	G23012	Level	253.28 mAOD	Termination Reason	Terminated due to collapse	



S2-TP280 Spoil



S2-TP280 Face C

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282811.02	Equipment	JCB 220X 1c	Sheet 3 of 4
Client	Walters UK Ltd	Northing	210498.88	Method	TP	
Project No	G23012	Level	253.28 mAOD	Termination Reason	Terminated due to collapse	



S2-TP280 Face D



S2-TP280 Post Excavation

EXPLORATORY HOLE PHOTOGRAPHS

Exploratory Hole
S2-TP280

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282811.02	Equipment	JCB 220X 1c
Client	Walters UK Ltd	Northing	210498.88	Method	TP
Project No	G23012	Level	253.28 mAOD	Termination Reason	Terminated due to collapse

Sheet 4 of 4



S2-TP280 Pre Excavation

JACKSON GEO SERVICES		TRIAL PIT EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time			Exploratory Hole		
								Date and Time		Depth	Water Depth	S2-TP282	
								31/03/2023 09:20 31/03/2023 10:15		0.00 2.20	0 2.10		
Project	Global Centre of Rail Excellence (GCRE) Stage 2			Equipment	JCB 220X Ic			Sheet 1 of 1					
Client	Walters UK Ltd			Method	TP			Scale	1:20				
Project No	G23012	Level	237.17 mAOD	Orientation	335 degrees			Logged	AE				
Easting	284743.78	Northing	210501.45	Length	5.00			Checked	AP				
Termination Reason	Terminated due to water ingress			Width	1.80								
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks		Depth (Thickness)	Level (mAOD)	Legend	Description	Scale	Backfill				
1 B	0.00 - 0.30	Concrete		0.00			Strong light grey reinforced CONCRETE with frequent 10mm diameter rebar striking 335 degrees and 40 degrees. (MADE GROUND) Geology Code: MGR 2nd Geology Code: Conc						
2 ES	0.30 - 0.40			0.30	236.87		Dark grey gravelly fine to coarse SAND with low cobble content. Gravel is angular to subangular fine to coarse of coal and siltstone. Cobbles are subangular of medium strong siltstone and coal (160*120*90mm). (MADE GROUND) Geology Code: MGR 2nd Geology Code: SD 0.30m - 0.50m Light grey fine to coarse sand with frequent angular concrete fragments (up to 70mm).	0.50					
3 ES	0.50 - 0.60												
4 B	0.60 - 0.80												
5 ES	0.90 - 1.00							1.00					
6 B	1.00 - 1.20			(1.40)									
								1.50					
				1.70	235.47								
7 ES	1.90 - 2.00						Dark grey occasionally yellow stained sandy angular to subangular fine to coarse GRAVEL of coal siltstone and mudstone with high cobble content. Cobbles are subangular to subrounded of medium strong siltstone and coal (260*130*100mm). Sand is medium to coarse. (MADE GROUND) Geology Code: MGR 2nd Geology Code: CO	2.00					
8 B	1.90 - 2.10			(0.50)									
					234.97								
							End of Exploratory Hole at 2.20m						
								2.50					
								3.00					
								3.50					
								4.00					
Weather	Overcast with light rain.		Trial Pit Excavation Onsite Layout Engineer Face A Face B Face C Face D Excavator				Water Strikes						
Shoring	None						Date and Time	Strike	Rising to	Time	Remarks		
Stability	Collapse. Face A and C 0.50m-2.20m.						31/03/2023 10:05	2.10	2.10	20mins	Fast inflow		
Remarks													
Machine excavated trial pit from GL to 2.20m.													

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284743.78	Equipment	JCB 220X 1c	Sheet 1 of 3
Client	Walters UK Ltd	Northing	210501.45	Method	TP	
Project No	G23012	Level	237.17 mAOD	Termination Reason	Terminated due to water ingress	



S2-TP282 Face D



S2-TP282 Face C

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284743.78	Equipment	JCB 220X 1c	Sheet 2 of 3
Client	Walters UK Ltd	Northing	210501.45	Method	TP	
Project No	G23012	Level	237.17 mAOD	Termination Reason	Terminated due to water ingress	



S2-TP282 Face B



S2-TP282 Face A

EXPLORATORY HOLE PHOTOGRAPHS

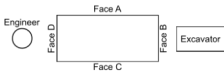
Exploratory Hole

S2-TP282

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284743.78	Equipment	JCB 220X 1c	Sheet 3 of 3
Client	Walters UK Ltd	Northing	210501.45	Method	TP	
Project No	G23012	Level	237.17 mAOD	Termination Reason	Terminated due to water ingress	



S2-TP282 Spoil

				TRIAL PIT EXPLORATORY HOLE LOG				Exploratory Hole Progress by Time			Exploratory Hole	
Date and Time		Depth	Water Depth					S2-TP284				
10/05/2023 08:40 10/05/2023 10:30		0.00 2.00	1.50									
ProjectGlobal Centre of Rail Excellence (GCRE) Stage 2		EquipmentJCB 220X Ic		Sheet 1 of 1								
ClientWalters UK Ltd		MethodTP		Scale1:20								
Project NoG23012		Level236.20 mAOD		Orientation340 degrees								
Easting284637.13		Northing210489.34		Length5.00								
Termination Reason		Terminated due to water ingress		Width0.60		CheckedAP						
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks		Depth (Thickness)	Level (mAOD)	Legend	Description	Scale	Backfill			
1 B	0.10 - 0.20	PID: 0.0ppmv		0.00 (0.25)	235.95		Strong grey reinforced CONCRETE with frequent very closely spaced 10mm diameter rebar striking 250° and 340°. (MADE GROUND) Geology Code: MGR 2nd Geology Code: Conc					
2 ES 2 ES	0.20 - 0.30 0.25 - 0.30 0.25			0.25			Dark grey sandy angular to subrounded fine to coarse GRAVEL of siltstone and occasional mudstone. Sand is fine to coarse. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR					
3 ES 4 B	0.50 - 0.60 0.50 0.60 - 0.80			(0.85)								
5 ES	0.90 - 1.00 0.90	PID: 0.0ppmv		1.10	235.10		Greyish brown sandy subangular to subrounded fine to coarse GRAVEL of siltstone with high cobble content and rare brick fragments (up to 60mm). Cobbles are subangular to subrounded of medium strong siltstone (170×130×120mm). Sand is fine to coarse. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR					
6 B	1.50 - 1.70			(0.90)								
7 ES	1.90 - 2.00 1.90	PID: 0.0ppmv			234.20		End of Exploratory Hole at 2.00m					
WeatherLight rain.		Trial Pit Excavation Onsite Layout 				Water Strikes						
ShoringNone						Date and Time		Strike	Rising to	Time	Remarks	
StabilityStable						10/05/2023 10:10		1.80	1.50	20mins		
Remarks Machine excavated trial pit from GL to 2.00m.												

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EXPLORATORY HOLE PHOTOGRAPHS

Exploratory Hole
S2-TP284

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284637.13	Equipment	JCB 220X lc
Client	Walters UK Ltd	Northing	210489.34	Method	TP
Project No	G23012	Level	236.20 mAOD	Termination Reason	Terminated due to water ingress

Sheet 1 of 4



S2-TP284 Face D



S2-TP284 Spoil

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP284
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284637.13	Equipment	JCB 220X 1c	Sheet 2 of 4
Client	Walters UK Ltd	Northing	210489.34	Method	TP	
Project No	G23012	Level	236.20 mAOD	Termination Reason	Terminated due to water ingress	



S2-TP284 Post Excavation



S2-TP284 Pre Excavation

EXPLORATORY HOLE PHOTOGRAPHS

Exploratory Hole
S2-TP284

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284637.13	Equipment	JCB 220X 1c	Sheet 3 of 4
Client	Walters UK Ltd	Northing	210489.34	Method	TP	
Project No	G23012	Level	236.20 mAOD	Termination Reason	Terminated due to water ingress	



S2-TP284 Face B



S2-TP284 Face A

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284637.13	Equipment	JCB 220X 1c	Sheet 4 of 4
Client	Walters UK Ltd	Northing	210489.34	Method	TP	
Project No	G23012	Level	236.20 mAOD	Termination Reason	Terminated due to water ingress	



S2-TP284 Face C

