

		EXPLORATORY HOLE PHOTOGRAPHS		Exploratory Hole	
				S2-TP2109	
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284590.72	Equipment	JCB 220X 1c
Client	Walters UK Ltd	Northing	210446.99	Method	TP
Project No	G23012	Level	238.06 mAOD	Termination Reason	Terminated due to collapse

Sheet 2 of 4



S2-TP2109 Spoil



S2-TP2109 Face C

EXPLORATORY HOLE PHOTOGRAPHS

Exploratory Hole

S2-TP2109

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284590.72	Equipment	JCB 220X 1c
Client	Walters UK Ltd	Northing	210446.99	Method	TP
Project No	G23012	Level	238.06 mAOD	Termination Reason	Terminated due to collapse

Sheet 3 of 4



S2-TP2109 Face D



S2-TP2109 Face B

EXPLORATORY HOLE PHOTOGRAPHS

Exploratory Hole

S2-TP2109

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284590.72	Equipment	JCB 220X Ic
Client	Walters UK Ltd	Northing	210446.99	Method	TP
Project No	G23012	Level	238.06 mAOD	Termination Reason	Terminated due to collapse

Sheet 4 of 4



S2-TP2109 Spoil

		TRIAL PIT EXPLORATORY HOLE LOG					Exploratory Hole Progress by Time			Exploratory Hole		
							Date and Time		Depth	Water Depth	S2-TP211	
							05/05/2023 13:30 05/05/2023 14:00		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	300.31 mAOD	Orientation		55 degrees		Logged	AE			
Easting	282905.63	Northing	211495.46	Length		4.00		Checked	AP			
Termination Reason		Scheduled depth		Width		1.80						
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			0.00	296.81		Grey sandy clayey angular to subangular frequently tabular fine to coarse GRAVEL of siltstone, mudstone and occasional sandstone with high cobble content and high boulder content. Cobbles are angular to subangular of moderately weak to medium strong mudstone and siltstone (180×140×70mm). Boulders are angular to subangular of medium strong siltstone (800×450×350mm). Sand is fine to coarse. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR					
2 ES 3 B	0.50 - 0.60 0.50 - 0.80											
4 ES	0.90 - 1.00											
5 B	1.50 - 1.80											
6 ES	1.90 - 2.00											
7 B	2.50 - 2.80											
8 ES	2.90 - 3.00											
End of Exploratory Hole at 3.50m										3.50		
							4.00					
Weather	Clear	Trial Pit Excavation Onsite Layout					Water Strikes					
Shoring	None						Date and Time	Strike	Rising to	Time	Remarks	
Stability	Collapse Face A and C GL to 3.50m.											
Remarks												
Machine excavated trial pit from GL to 3.50m.												

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Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282905.63	Equipment	JCB 220X 1c
Client	Walters UK Ltd	Northing	211495.46	Method	TP
Project No	G23012	Level	300.31 mAOD	Termination Reason	Scheduled depth



S2-TP211 Pre Excavation



S2-TP211 Face B

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282905.63	Equipment	JCB 220X 1c
Client	Walters UK Ltd	Northing	211495.46	Method	TP
Project No	G23012	Level	300.31 mAOD	Termination Reason	Scheduled depth



S2-TP211 Face C



S2-TP211 Spoil

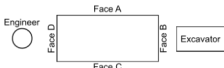
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282905.63	Equipment	JCB 220X lc	Sheet 3 of 3
Client	Walters UK Ltd	Northing	211495.46	Method	TP	
Project No	G23012	Level	300.31 mAOD	Termination Reason	Scheduled depth	



S2-TP211 Post Excavation



S2-TP211 Face D

				TRIAL PIT EXPLORATORY HOLE LOG				Exploratory Hole Progress by Time			Exploratory Hole	
Date and Time		Depth	Water Depth					S2-TP2110				
11/04/2023 15:40 11/04/2023 16:15		0.00 3.40	Dry	Sheet 1 of 1								
Project	Global Centre of Rail Excellence (GCRE) Stage 2			Equipment	JCB 220X Ic			Scale	1:20			
Client	Walters UK Ltd			Method	TP			Logged	AE			
Project No	G23012	Level	238.38 mAOD	Orientation		75 degrees		Checked	AP			
Easting	284818.59	Northing	210442.82	Length		4.00						
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 angular to subrounded fine to coarse GRAVEL of siltstone with medium cobble content. Cobbles are subangular to subrounded of medium strong (180x130x75mm). Sand is fine to coarse. Occasional fragments of bituminous bound material (up to 40mm), rare brick fragments (up to 170mm). (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR						
2 B	0.30 - 0.40	Possible concrete footing in face C										
3 ES	0.40 - 0.60											
4 ES	0.50 - 0.60 0.50	PID: 0.0ppmv	(1.00)				0.50					
5 B	0.90 - 1.00 0.90	PID: 0.0ppmv	1.00	237.38		Dark grey very sandy clayey angular to subrounded fine to coarse GRAVEL of siltstone, mudstone and coal, with high cobble content. Cobbles are subangular of medium strong siltstone and coal (120mx 70mx 60m). Sand is fine to coarse. Rare timber fragments (up to 200mm) (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR	1.00					
6 ES	1.40 - 1.60											
7 B	1.90 - 2.00 1.90	PID: 0.0ppmv	(1.20)				1.50					
8 ES	2.40 - 2.60											
	2.90 - 3.00		2.20	236.18		Brownish grey sandy clayey angular fine to coarse GRAVEL of siltstone with low cobble content. Cobbles are angular of medium strong siltstone with frequent orangish brown staining (100m x 70mm x 40mm). Sand is fine and medium. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR	2.50					
			(1.20)				3.00					
				234.98		End of Exploratory Hole at 3.40m	3.50					
							4.00					
Weather	Heavy rain	Trial Pit Excavation Onsite Layout 				Water Strikes						
Shoring	None					Date and Time	Strike	Rising to	Time	Remarks		
Stability	Collapse from 0.80-3.40m in Faces A and C											
Remarks												
Machine excavated trial pit from GL to 3.40m												

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		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP2110
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284818.59	Equipment	JCB 220X 1c	Sheet 1 of 4
Client	Walters UK Ltd	Northing	210442.82	Method	TP	
Project No	G23012	Level	238.38 mAOD	Termination Reason	Terminated due to collapse	



S2-TP2110 Face A



S2-TP2110 Face D

		EXPLORATORY HOLE PHOTOGRAPHS		Exploratory Hole	
				S2-TP2110	
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284818.59	Equipment	JCB 220X 1c
Client	Walters UK Ltd	Northing	210442.82	Method	TP
Project No	G23012	Level	238.38 mAOD	Termination Reason	Terminated due to collapse

Sheet 2 of 4



S2-TP2110 Face C



S2-TP2110 Spoil

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP2110
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284818.59	Equipment	JCB 220X lc	Sheet 3 of 4
Client	Walters UK Ltd	Northing	210442.82	Method	TP	
Project No	G23012	Level	238.38 mAOD	Termination Reason	Terminated due to collapse	



S2-TP2110 Post Excavation



S2-TP2110 Face B

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP2110
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284818.59	Equipment	JCB 220X 1c	Sheet 4 of 4
Client	Walters UK Ltd	Northing	210442.82	Method	TP	
Project No	G23012	Level	238.38 mAOD	Termination Reason	Terminated due to collapse	



S2-TP2110 Pre Excavation



S2-TP2110 Spoil

		TRIAL PIT EXPLORATORY HOLE LOG					Exploratory Hole Progress by Time			Exploratory Hole				
							Date and Time		Depth	Water Depth	S2-TP2112			
Project		Global Centre of Rail Excellence (GCRE) Stage 2			Equipment		JCB 220X Ic		31/03/2018 14:50 31/03/2023 16:10		0.00 4.00	Sheet 1 of 1		
Client		Walters UK Ltd			Method		TP					Scale	1:20	
Project No		G23012		Level		238.63 mAOD		Orientation		285 degrees		Logged		AE
Easting		284872.05		Northing		210442.31		Length		4.50		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 B	0.10 - 0.30	Inactive cable striking 285° exposed by collapse in Face A.			0.00	238.03		Dark grey sandy subangular to subrounded fine to coarse GRAVEL of quartzite, concrete and siltstone. Sand is fine to coarse. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR				0.50		
2 ES	0.20 - 0.30													
	0.30 - 0.40													
3 ES	0.50 - 0.60													
				0.60	236.83		Dark grey gravelly fine to coarse SAND with low cobble content. Gravel is angular to subangular fine to coarse of mudstone, siltstone and coal. Cobbles are subangular to subrounded of medium strong siltstone and coal (200x110x70mm). (MADE GROUND) Geology Code: MGR 2nd Geology Code: SD 0.60m - 0.60m Polythene membrane.				1.00			
4 ES	0.90 - 1.00													
5 B	0.90 - 1.10													
				(1.20)	236.83		Dark grey sandy angular to subangular fine to coarse GRAVEL of mudstone, siltstone and occasional coal with medium cobble content and low boulder content. Cobbles are subangular to subrounded of moderately weak to medium strong mudstone and siltstone (140x120x80mm). Boulders are subrounded of medium strong to strong siltstone (400x200x120mm). Sand is medium to coarse. Rare timber (up to 90mm) and rare glass. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR				2.00			
6 ES	1.90 - 2.00													
7 B	1.90 - 2.10													
					234.63		End of Exploratory Hole at 4.00m				3.00			
					234.63		End of Exploratory Hole at 4.00m				3.50			
				(2.20)	234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			
					234.63		End of Exploratory Hole at 4.00m				4.00			

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP2112
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284872.05	Equipment	JCB 220X lc	Sheet 1 of 3
Client	Walters UK Ltd	Northing	210442.31	Method	TP	
Project No	G23012	Level	238.63 mAOD	Termination Reason	Scheduled depth	



S2-TP2112 Face D



S2-TP2112 Spoil

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284872.05	Equipment	JCB 220X 1c	Sheet 2 of 3
Client	Walters UK Ltd	Northing	210442.31	Method	TP	
Project No	G23012	Level	238.63 mAOD	Termination Reason	Scheduled depth	



S2-TP2112 Face A



S2-TP2112 Face C



EXPLORATORY HOLE PHOTOGRAPHS

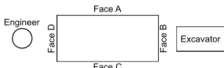
Exploratory Hole

S2-TP2112

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284872.05	Equipment	JCB 220X 1c	Sheet 3 of 3
Client	Walters UK Ltd	Northing	210442.31	Method	TP	
Project No	G23012	Level	238.63 mAOD	Termination Reason	Scheduled depth	



S2-TP2112 Face B

		TRIAL PIT EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time			Exploratory Hole		
								Date and Time		Depth	Water Depth	S2-TP2113	
								15/05/2023 09:00 15/05/2023 10:20		0.00 4.00	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	238.35 mAOD	Orientation		275 degrees				Logged	AE		
Easting	284596.01	Northing	210440.57	Length		4.50				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 B	0.00 - 0.20	PID: 0.1ppmv		0.00 (0.20)	238.15		Strong light grey CONCRETE. (MADE GROUND) Geology Code: MGR 2nd Geology Code: Conc			0.50			
2 ES	0.20 - 0.30 0.20			0.20			Very soft dark greyish brown slightly gravelly sandy CLAY. Gravel is angular fine to medium of siltstone and mudstone. Sand is fine to coarse. (MADE GROUND) Geology Code: MGR 2nd Geology Code: CL						
3 D	0.30 - 0.40			0.30									
4 ES	0.60 - 0.70 0.60	PID: 0.0ppmv		0.50	237.85		Very soft to soft grey mottled brownish yellow locally grey slightly gravelly sandy CLAY with low cobble content. Gravel is subangular to rounded fine to coarse of siltstone and sandstone. Cobbles are angular to rounded of medium strong siltstone and sandstone (170x110x60mm) Sand is fine. Occasional pockets of pinkish brown fine sand (up to 80mm). (GLACIAL TILL) Geology Code: GT 2nd Geology Code: CL			1.00			
5 ES	0.80 0.80 0.80	HV: P: 10kPa R: 8kPa HV: P: 12kPa R: 7kPa HV: P: 20kPa R: 11kPa PID: 0.1ppmv		(1.50)									
6 D	0.90 - 1.00 0.90 - 1.00 0.90												
7 D	1.40 - 1.50									1.50			
8 ES	1.80 - 1.90 1.80 1.80 1.80 1.80	HV: P: 11kPa R: 9kPa HV: P: 18kPa R: 12kPa HV: P: 21kPa R: 12kPa PID: 0.1ppmv		2.00	236.35		Firm to stiff brown mottled grey slightly sandy gravelly silty CLAY with low cobble content and low boulder content. Gravel is subangular to rounded fine to coarse of siltstone and sandstone. Boulders are rounded of strong sandstone (900x700x400mm). Sand is fine to coarse. (GLACIAL TILL) Geology Code: GT 2nd Geology Code: CL			2.00			
9 D	2.10 - 2.20												
10 B	2.60 - 2.80										2.50		
	2.80 2.80 2.80	HV: P: 52kPa R: 24kPa HV: P: 52kPa R: 41kPa HV: P: 62kPa R: 37kPa		(1.40)	234.95					3.00			
11 D	3.10 - 3.20												
12 D	3.50 - 3.60											3.50	
13 B	3.70 - 3.90			0.60			Stiff grey silty very gravelly CLAY with medium cobble content. Gravel is angular to subangular fine to coarse of siltstone. Cobbles are angular to subangular rarely rounded of moderately weak to medium strong siltstone (130x80x70mm). (GLACIAL TILL) Geology Code: GT 2nd Geology Code: CL			4.00			
							End of Exploratory Hole at 4.00m						
Weather	Sunny	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 4.00m.													

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		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP2113
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284596.01	Equipment	JCB 220X 1c	Sheet 1 of 4
Client	Walters UK Ltd	Northing	210440.57	Method	TP	
Project No	G23012	Level	238.35 mAOD	Termination Reason	Scheduled depth	



S2-TP2113 Face D



S2-TP2113 Face C