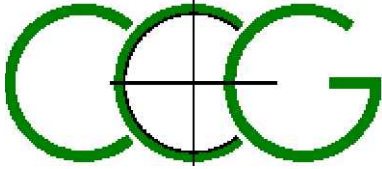


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Client	Northern Trust Limited			
Site	Sneckyeat Road, Whitehaven, CA28 8PF (Site Area 1)			
Drawing	Ground Investigation Layout			
Job No.	Dwg. No.	Rev. No.	Scale@A3	Date
23-13736	3	0	1:2500	Feb' 23



Contract Name: Sneckyeat Industrial Estate, Whitehaven		Client: Northern Trust			Borehole ID: WS01	
Contract Number: CCG-C-23-13736	Date Started: 27/03/2023	Logged By: DK	Checked By:	Status: FINAL	Sheet 1 of 1	
Dynamic Sampling Borehole Log		Easting:	Northing:	Ground Level:	Plant Used: Dando Terrier	Rig Crew: JG/JG
Weather: Variable		Termination:			SPT Hammer: N/R, Energy Ratio: N/R	
Scale: 1:25						

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/Installation
0.00 - 1.00	U			(0.35)		Grey / brown slightly sandy gravelly CLAY. Gravel is fine to coarse angular to subround of brick (MADE GROUND)		
0.30 - 0.50	ES			0.35		Firm becoming stiff slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse of various angularities and lithologies		
1.00 - 2.00	U	HVP=50 SPT(S)N=11 (1,1/2,3,3,3)		(2.90)			1	
2.00 - 3.00	U	HVP=110 SPT(S)N=19 (2,3/4,5,5,5)					2	
3.00 - 4.00	U	HVP=110 SPT(S)N=7 (3,4/2,1,2,2)		3.25		Loose brown clayey SAND		
				3.50		Stiff brown slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subround of mudstone (possible weathered mudstone)		
4.00 - 4.10	U	SPT(S)50 (50 for 10mm/50 for 10mm)		(0.60) 4.10			4	
						End of Borehole at 4.10m	5	

Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:					
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	1hr hand digging - CAT scanning borehole starter pit GL-1.2mbgl					
									30mins cleaning up around borehole position					
									Water Strikes					
									Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
Chiselling					Installation									
From (m)	To (m)	Duration	Remarks		Top (m)	Base (m)	Type	Dia (mm)						
					0.00	0.50	PLAIN	50						
					0.50	4.10	SLOTTED	50						
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Contract Name: Sneckyeat Industrial Estate, Whitehaven		Client: Northern Trust			Borehole ID: WS02	
Contract Number: CCG-C-23-13736	Date Started: 27/03/2023	Logged By: DK	Checked By:	Status: FINAL	Sheet 1 of 2	
Dynamic Sampling Borehole Log		Easting:	Northing:	Ground Level:	Plant Used: Dando Terrier	Rig Crew: JG/JG
Weather: Variable		Termination:		SPT Hammer: N/R, Energy Ratio: N/R		
Scale: 1:25						

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/Installation
0.00 - 1.00	U			0.15		Grassed TOPSOIL		
0.30 - 0.50	ES			0.40		Dark brown gravelly CLAY. Gravel is fine to coarse angular of brick (MADE GROUND)		
1.00 - 2.00	U	HVP=110 SPT(S)N=13 (1,2/2,3,4,4)				Firm to stiff becoming stiff brown slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse of various angularities and lithologies	1	
2.00 - 3.00	U	HVP=110 SPT(S)N=24 (3,4/7,5,6,6)					2	
3.00 - 4.00	U	HVP=110 SPT(S)N=33 (3,4/11,6,8,8)		(5.05)			3	
4.00 - 5.00	U	HVP=110 SPT(S)N=30 (3,5/8,7,7,8)					4	
		HVP=110 SPT(S)N=28 (3,4/6,8,8,6)					5	
Continued next sheet								

Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:					
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	1hr hand digging - CAT scanning borehole starter pit GL-1.2mbgl					
									30mins cleaning up around borehole position					
									Water Strikes					
									Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
Chiselling				Installation										
From (m)	To (m)	Duration	Remarks	Top (m)	Base (m)	Type	Dia (mm)							
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Contract Name: Sneckyeat Industrial Estate, Whitehaven		Client: Northern Trust			Borehole ID: WS02	
Contract Number: CCG-C-23-13736	Date Started: 27/03/2023	Logged By: DK	Checked By:	Status: FINAL	Sheet 2 of 2	
Dynamic Sampling Borehole Log		Easting:	Northing:	Ground Level:	Plant Used: Dando Terrier	Rig Crew: JG/JG

Weather: Variable Termination: SPT Hammer: N/R, Energy Ratio: N/R

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/Installation
				5.45		Firm to stiff becoming stiff brown slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse of various angularities and lithologies		
						End of Borehole at 5.45m		
							6	
							7	
							8	
							9	
							10	

Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:				
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	1hr hand digging - CAT scanning borehole starter pit GL-1.2mbgl				
									30mins cleaning up around borehole position				
Chiselling					Installation				Water Strikes				
From (m)	To (m)	Duration	Remarks	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
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Contract Name: Sneckyeat Industrial Estate, Whitehaven		Client: Northern Trust			Borehole ID: WS03	
Contract Number: CCG-C-23-13736	Date Started: 27/03/2023	Logged By: DK	Checked By:	Status: FINAL	Sheet 1 of 1	
Dynamic Sampling Borehole Log		Easting:	Northing:	Ground Level:	Plant Used: Dando Terrier	Rig Crew: JG/JG
Weather: Variable		Termination:			SPT Hammer: N/R, Energy Ratio: N/R	
Scale: 1:25						

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/Installation
0.00 - 1.00	U			0.10		Grassed TOPSOIL		
0.30 - 0.50	ES			(0.35)		Dark brown slightly gravelly sandy CLAY. Gravel is fine to coarse angular to subround of brick (MADE GROUND)		
		HVP=40		0.45		Firm becoming stiff brown slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse of various angularities and lithologies		
1.00 - 2.00	U	SPT(S)N=7 (1,1/1,2,2,2)		(2.45)			1	
		HVP=110						
2.00 - 3.00	U	SPT(S)N=22 (3,3/4,4,6,8)					2	
		HVP=110						
3.00 - 4.00	U	SPT(S)50 (6,10/50 for 190mm)		2.90		Dense becoming very dense brown very clayey sandy GRAVEL. Gravel is fine to coarse of sandstone (possibly weathered sandstone)	3	
				(1.25)				
4.00 - 4.15	U	SPT(S)50 (50 for 75mm/50 for 20mm)		4.15		End of Borehole at 4.15m	4	
							5	

Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:					
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	1hr hand digging - CAT scanning borehole starter pit GL-1.2mbgl					
									30mins cleaning up around borehole position					
									Water Strikes					
									Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
Chiselling					Installation									
From (m)	To (m)	Duration	Remarks	Top (m)	Base (m)	Type	Dia (mm)							
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Contract Name: Sneckyeat Industrial Estate, Whitehaven		Client: Northern Trust			Borehole ID: WS04	
Contract Number: CCG-C-23-13736	Date Started: 27/03/2023	Logged By: DK	Checked By:	Status: FINAL	Sheet 1 of 1	
Dynamic Sampling Borehole Log		Easting:	Northing:	Ground Level:	Plant Used: Dando Terrier	Rig Crew: JG/JG
Weather: Variable		Termination:			SPT Hammer: N/R, Energy Ratio: N/R	
Scale: 1:25						

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/Installation
0.00 - 1.00	U					Grassed TOPSOIL		
0.30 - 0.50	ES			0.25		Dark brown gravelly CLAY. Gravel is fine to coarse angular to subround of brick (MADE GROUND)		
		HVP=55		0.50		Firm becoming stiff brown slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse of various angularities and lithologies		
1.00 - 2.00	U	SPT(S)N=14 (1,2/3,3,4,4)		(2.40)			1	
		HVP=110						
2.00 - 3.00	U	SPT(S)N=28 (12,10/7,7,7,7)					2	
		HVP=110						
3.00 - 4.00	U	SPT(S)N=24 (3,3/5,4,6,9)		2.90		Stiff grey / brown slightly gravelly slightly sandy silty CLAY with occasional thin bands of silty fine and medium grained sand. Gravel is fine to coarse of various angularities and lithologies	3	
				(0.60)				
				3.50		Very stiff dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subangular of mudstone (possible weathered mudstone)		
				(0.95)			4	
4.00 - 4.45	U	SPT(S)50 (3,13/50 for 190mm)		4.45				
						End of Borehole at 4.45m		
							5	

Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:		
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	1hr hand digging - CAT scanning borehole starter pit GL-1.2mbgl		
									30mins cleaning up around borehole position		
					Water Strikes						
					Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks	
Chiselling					Installation						
From (m)	To (m)	Duration	Remarks		Top (m)	Base (m)	Type	Dia (mm)			
					0.00	0.50	PLAIN	50			
					0.50	4.45	SLOTTED	50			
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Contract Name: Sneckyeat Industrial Estate, Whitehaven		Client: Northern Trust			Borehole ID: WS05	
Contract Number: CCG-C-23-13736	Date Started: 27/03/2023	Logged By: DK	Checked By:	Status: FINAL	Sheet 1 of 1	
Dynamic Sampling Borehole Log		Easting:	Northing:	Ground Level:	Plant Used: Dando Terrier	Rig Crew: JG/JG
Weather: Variable		Termination:		SPT Hammer: N/R, Energy Ratio: N/R		
Scale: 1:25						

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/Installation
0.00 - 1.00	U			(0.30)		Grassed TOPSOIL		
0.30 - 0.50	ES			0.30		Dark brown slightly gravelly silty CLAY. Gravel is fine to coarse angular to subround of brick (MADE GROUND)		
				0.45		Firm becoming stiff brown slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse of various angularities and lithologies		
1.00 - 2.00	U	HVP=45 SPT(S)N=8 (1,2/2,2,2,2)		(2.25)			1	
2.00 - 3.00	U	HVP=110 SPT(S)N=17 (2,3/4,4,4,5)					2	
3.00 - 3.35	U	HVP=110 SPT(S)50 (27,15/50 for 125mm)		2.70 (0.65)		Very stiff brown / grey slightly gravelly sandy CLAY. Gravel is fine to coarse angular to subround of mudstone (possibly weathered mudstone)	3	
				3.35		End of Borehole at 3.35m	4	
							5	

Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:					
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	1hr hand digging - CAT scanning borehole starter pit GL-1.2mbgl					
									30mins cleaning up around borehole position					
									Water Strikes					
									Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
Chiselling					Installation									
From (m)	To (m)	Duration	Remarks		Top (m)	Base (m)	Type	Dia (mm)						
					0.00	0.50	PLAIN	50						
					0.50	3.35	SLOTTED	50						
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