

Appendix C Exploratory Hole Logs: Boreholes

Key to legends

Composite materials, soils and lithology					
	Topsoil		Made Ground		Boulders
	Clay		Coal		Cobbles
	Gravel		Limestone		Mudstone
	Sand		Sandstone		Silt
					Siltstone
					Peat
					Concrete
					Chalk

Note: Composite soil types are signified by combined symbols.

Key to 'test results' and 'sampling' columns

Test result		From (m) To (m)	Records depth of sampling	
Depth	Records depth that the test was carried out (i.e.: at 2.10m or between 2.10m and 2.55m)		D	Disturbed sample
			B	Bulk disturbed sample
			ES	Environmental sample
			SPTLS	SPT liner sample
		Type	W	Water sample
			U	Undisturbed thick-walled sample 100mm diameter sampler
			UT	Undisturbed thin walled sample 100mm diameter sampler
			UTF	Failed undisturbed sample
Result	PP – Pocket penetrometer result reported as an equivalent undrained shear strength (kN/m²) by applying a factor of 50. SV – Hand held shear vane result reported as an undrained shear strength (kN/m²). Where multiple readings are taken at the same level the average value is shown on the log. * Signifies that instrument limit reached. SPT – Standard Penetration Test result (N value uncorrected)^{1,2,3} SPT(c) – Standard Penetration Test result (solid cone) (N value) (uncorrected)^{1,2,3} * Signifies that the test was terminated before full penetration was achieved. UT – Undisturbed sample 100mm diameter sampler with number of blows of driving equipment required to obtain sample			
Sampling				

Note 1: Total seating blows recorded in brackets.

Note 2: Casing depth records depth of casing when SPT or SPT(c) was carried out.

Note 3: Water depth records depth of water when SPT or SPT(c) was carried out.

Water observations

Described at foot of log and shown in the 'water strike' column.

 Water level observed after specified delay in drilling

 Water strike

Density

Density recorded in brackets determined by qualitative field assessment or inferred from density testing and soil descriptions from across the site (i.e.: [Medium dense]).

Installation details

	Gravel filter		Bentonite
	Slotted pipe		Unslotted pipe
	Arisings		Grout
	Extensometer magnet		Vibrating wire piezometer

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No groundwater strike recorded

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[illegible]

Notes Terminated at scheduled depth.	Groundwater observations						Chiselling details		Drilling details		Title		Date(s)
	Strike (m)	5mins	10mins	15mins	20mins	Comments	Depth (m)	Duration (hh:mm)	Diameter	Base depth (m)	Borehole record		24/07/2024 - 25/07/2024
											Method	Plant used	Sheet number
											Cable Percussive	Dando 2000	Sheet 2 of 2
							Water added details		Casing details		Level (m OD)	Logged by	Revision
							Depth (m)	Water added (l)	Diameter	Base depth (m)	170.50	JT	01
	No groundwater strike recorded								150 mm	13.00	Co-ordinates 389101E, 410437N	Status FINAL	BH01

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Notes Terminated at scheduled depth.	Groundwater observations					Chiselling details		Drilling details		Title		Date(s)	
	Strike (m)	5mins	10mins	15mins	20mins	Comments	Depth (m)	Duration (hh:mm)	Diameter	Base depth (m)	Borehole record		30/07/2024 - 06/12/2024
	15.00				12.4						Method	Plant used	Sheet number
							Water added details		Casing details		Level (m OD)	Logged by	Revision
							Depth (m)	Water added (l)	Diameter	Base depth (m)	177.53	JT	01
									150 mm	15.00	Co-ordinates	Status	BH02
					389319E, 410459N	FINAL							

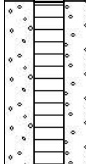
Cowm Top
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INSTALL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (mOD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	Stiff brown slightly sandy slightly gravelly CLAY. Gravel is fine subangular sandstone. (HUMMOCKY GLACIAL DEPOSITS)	11.00	166.53			S 11.00	(7) 24			PP 13.10	PP 0	11.00 11.00	11.50 11.45	B D
												12.00	12.95	UT(26)
	Medium dense very silty slightly gravelly SAND. Gravel is fine subangular coal and sandstone. (HUMMOCKY GLACIAL DEPOSITS)	13.00	164.53									13.00	13.50	B
	Medium dense brown slightly silty slightly gravelly fine SAND. Gravel is fine subangular sandstone and coal. (HUMMOCKY GLACIAL DEPOSITS)	14.00	163.53			S 14.00	(4) 12					14.00 14.00	14.50 14.50	D B
						S 15.00	(7) 18					15.00	15.45	D
	BOREHOLE TERMINATED AT 15.45m	15.45	162.08											

Notes Terminated at scheduled depth.	Groundwater observations						Chiselling details		Drilling details		Title		Date(s)
	Strike (m)	5mins	10mins	15mins	20mins	Comments	Depth (m)	Duration (hh:mm)	Diameter	Base depth (m)	Borehole record		30/07/2024 - 06/12/2024
	15.00				12.4						Method	Plant used	Sheet number
							Water added details		Casing details		Cable percussive	Dando 2000	Sheet 2 of 2
							Depth (m)	Water added (l)	Diameter	Base depth (m)	Level (m OD)	Logged by	Revision
									150 mm	15.00	177.53	JT	01
											Co-ordinates 389319E, 410459N	Status FINAL	BH02

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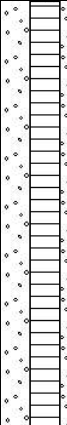
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INSTALL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (mOD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	Grass onto dark brown slightly gravelly silty fine SAND with frequent rootlets. (TOPSOIL)	0.40	176.20			S 1.20	(6) 13					0.10	1.00	B
	Medium dense orangish brown slightly gravelly slightly silty fine to medium SAND. Gravel is fine subangular sandstone and coal. (HUMMOCKY GLACIAL DEPOSITS)			0.10								ES		
	Firm brown slightly gravelly slightly sandy CLAY. Gravel is fine subangular sandstone, coal and mudstone. (HUMMOCKY GLACIAL DEPOSITS)	1.70	174.90			S 3.00	(2) 9				1.20	1.65	B	
				1.20							1.65	D		
	Loose becoming medium dense brown very silty slightly gravelly fine SAND. Gravel is fine subangular sandstone and coal. (HUMMOCKY GLACIAL DEPOSITS)	4.00	172.60			S 4.00	(2) 4				1.70	2.00	B	
2.00				2.45	UT(17									
	3.00	3.45	B											
	4.00	5.00	B											
											5.00	5.50	B	
											6.00	6.50	B	
											6.50	7.00	B	
	Stiff brown slightly gravelly slightly sandy CLAY. Gravel is fine to medium subangular sandstone and coal. (HUMMOCKY GLACIAL DEPOSITS)	8.00	168.60		S 5.00	(4) 6					8.00	8.50	B	
						S 6.50	(5) 12							
						S 9.50	(5) 17					9.50	10.00	B

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Notes Terminated at scheduled depth. Groundwater resting at 7.4m at the start of the second day.	Groundwater observations						Chiselling details		Drilling details		Title		Date(s)
	Strike (m)	5mins	10mins	15mins	20mins	Comments	Depth (m)	Duration (hh:mm)	Diameter	Base depth (m)	Borehole record		30/07/2024 - 31/07/2024
											Method Cable Percussive	Plant used Dando 2000	Sheet number Sheet 1 of 2
							Water added details		Casing details		Level (m OD)	Logged by	Revision
							Depth (m)	Water added (l)	Diameter	Base depth (m)	176.60	JT	01
	No groundwater strike recorded								150 mm	15.00	Co-ordinates 389231E, 410378N	Status FINAL	BH03

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INSTALL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (mOD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	Medium dense brown silty fine SAND. (HUMMOCKY GLACIAL DEPOSITS)	11.50	165.10			S 11.00	(7) 20					11.00	11.50	B
						S 12.50	(7) 23					12.50 12.50	13.00 13.00	B D
						S 14.00	(7) 21					14.00 14.00	14.50 14.50	B D
						S 15.00	(4) 12					15.00		D
	BOREHOLE TERMINATED AT 15.45m	15.45	161.15											

Notes Terminated at scheduled depth. Groundwater resting at 7.4m at the start of the second day.	Groundwater observations						Chiselling details		Drilling details		Title		Date(s)	
	Strike (m)	5mins	10mins	15mins	20mins	Comments	Depth (m)	Duration (hh:mm)	Diameter	Base depth (m)	Borehole record		30/07/2024 - 31/07/2024	
											Method Cable Percussive		Plant used Dando 2000	
							Water added details		Casing details		Level (m OD) 176.60		Logged by JT	
							Depth (m)	Water added (l)	Diameter	Base depth (m)	Co-ordinates 389231E, 410378N		Status FINAL	
No groundwater strike recorded									150 mm	15.00			BH03	

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INSTALL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (mOD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	Grass onto soft dark brown slightly sandy slightly gravelly CLAY with frequent rootlets. Gravel is fine to medium subangular to subrounded sandstone. (TOPSOIL)	0.50	152.49			S 1.20	(6) 14					0.10 0.10	0.50	B ES
	Firm brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse subangular to rounded sandstone. (HUMMOCKY GLACIAL DEPOSITS)					S 2.00	(7) 21					1.20 1.20	1.65 1.65	B SPTLS
		2.00	150.99			S 3.00	(9) 34					2.00 2.00	2.45 2.45	B SPTLS
						S 4.50	(7) 16					3.00 3.00	3.45 3.45	B SPTLS
						S 6.00	(8) 21					4.50 4.50	4.95 4.95	B SPTLS
						S 7.50	(8) 23					6.00 6.00	6.45 6.45	B SPTLS
						S 9.00	(14) 33					7.50 7.50	7.95 7.95	B SPTLS
												9.00 9.00	9.45 9.45	B SPTLS

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Notes	Groundwater observations						Chiselling details		Drilling details		Title		Date(s)	
	Terminated at scheduled depth.	Strike (m)	5mins	10mins	15mins	20mins	Comments	Depth (m)	Duration (hh:mm)	Diameter	Base depth (m)	Borehole record		25/07/2024
												Method	Plant used	Sheet number
								Water added details		Casing details		Level (m OD)	Logged by	Revision
								Depth (m)	Water added (l)	Diameter	Base depth (m)	152.99	TT	01
	No groundwater strike recorded									150 mm	15.00	Co-ordinates	Status	BH04
												388995E, 410277N	FINAL	

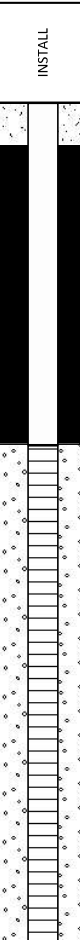
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INSTALL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (mOD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	Very dense brown silty fine to medium SAND. (HUMMOCKY GLACIAL DEPOSITS)	10.50	142.49			S 10.50	(15) 50*					10.50 10.50	10.95 10.95	B SPTLS
						S 12.00	(15) 51					12.00 12.00	12.45 12.45	B SPTLS
	Stiff dark brown slightly sandy slightly gravelly CLAY. Gravel is medium to coarse angular to subangular sandstone. (HUMMOCKY GLACIAL DEPOSITS)	13.00	139.99			S 13.50	(9) 19					13.50 13.50	13.95 13.95	B SPTLS
												15.00	15.45	UT(38)
	BOREHOLE TERMINATED AT 15.45m	15.45	137.54											

Notes Terminated at scheduled depth.	Groundwater observations						Chiselling details		Drilling details		Title		Date(s)
	Strike (m)	5mins	10mins	15mins	20mins	Comments	Depth (m)	Duration (hh:mm)	Diameter	Base depth (m)	Borehole record		25/07/2024
											Method	Plant used	Sheet number
											Cable Percussive	Dando 2000	Sheet 2 of 2
							Water added details		Casing details		Level (m OD)	Logged by	Revision
							Depth (m)	Water added (l)	Diameter	Base depth (m)	152.99	TT	01
	No groundwater strike recorded								150 mm	15.00	Co-ordinates	Status	BH04
										388995E, 410277N	FINAL		

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INSTALL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING			
	DESCRIPTION	DEPTH (m)	REDUCED LVL (mOD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE	
	Grass onto dark brown slightly silty fine SAND with frequent rootlets. (TOPSOIL)	0.40	175.91									0.10 0.10 0.40	0.40 0.45 1.20	B ES B	
	Medium dense brown slightly silty fine to medium SAND. (HUMMOCKY GLACIAL DEPOSITS)														
	Medium dense brown mottled dark brown very silty slightly gravelly fine SAND. Gravel is fine subangular sandstone. (HUMMOCKY GLACIAL DEPOSITS)	6.50	169.81			S 6.50	(5) 16	6.50	DRY			6.50 6.50 7.00	6.95 6.95	SPTLS B D	
	Firm brown sandy slightly gravelly SILT. Gravel is fine subangular sandstone. (HUMMOCKY GLACIAL DEPOSITS)	8.00	168.31			S 8.00	(5) 12	8.00	DAMP			8.00	8.45	B	
		9.50	166.81			S 9.50	(4) 10	9.50	DAMP			9.50	9.95	B	

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Notes	Groundwater observations						Chiselling details		Drilling details		Title		Date(s)
											Borehole record		15/07/2024 - 16/07/2024
	Strike (m)	5mins	10mins	15mins	20mins	Comments	Depth (m)	Duration (hh:mm)	Diameter	Base depth (m)			
	Terminated at scheduled depth.	13.50			12.0						Method Cable percussive	Plant used Dando 2000	Sheet number Sheet 1 of 2
							Water added details		Casing details		Level (m OD)	Logged by	Revision
							Depth (m)	Water added (l)	Diameter	Base depth (m)	176.31	JT	01
									150 mm	14.50	Co-ordinates 389179E, 410343N	Status FINAL	BH05

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INSTALL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (mOD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	Medium dense brown very silty fine SAND. (HUMMOCKY GLACIAL DEPOSITS)	10.50	165.81			S 11.00	(3) 12	11.80	10.50			11.00	11.45	B
	Medium dense brown slightly gravelly very silty fine SAND. Gravel is fine subangular sandstone and coal. (HUMMOCKY GLACIAL DEPOSITS)					S 12.50	(3) 14	12.50	12.00			12.50 12.50	12.95 12.95	B D
	Firm brown slightly gravelly slightly sandy CLAY. Gravel is fine subangular sandstone and coal. (HUMMOCKY GLACIAL DEPOSITS)	14.00	162.31			S 14.00	(3) 15	14.00	12.00			14.00 14.00	14.45 14.45	B D
												14.50		D
		15.00										15.00	15.45	UT(55)
												15.50		D
BOREHOLE TERMINATED AT 15.50m		15.50	160.81											

Notes Terminated at scheduled depth.	Groundwater observations						Chiselling details		Drilling details		Title		Date(s)	
	Strike (m)	5mins	10mins	15mins	20mins	Comments	Depth (m)	Duration (hh:mm)	Diameter	Base depth (m)	Borehole record		15/07/2024 - 16/07/2024	
	13.50				12.0					Method Cable percussive		Plant used Dando 2000	Sheet number Sheet 2 of 2	
							Water added details		Casing details		Level (m OD)		Revision	
							Depth (m)	Water added (l)	Diameter	Base depth (m)	Logged by JT		01	
									150 mm	14.50	Co-ordinates 389179E, 410343N		Status FINAL	BH05

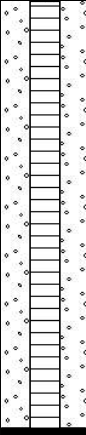
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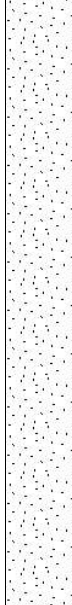
Notes Terminated at scheduled depth. Groundwater recorded at 5.0m at the start of the second day.	Groundwater observations					Chiselling details		Drilling details		Title		Date(s)	
	Strike (m)	5mins	10mins	15mins	20mins	Comments	Depth (m)	Duration (hh:mm)	Diameter	Base depth (m)	Borehole record		30/07/2024 - 31/07/2024
	8.60				7.5						Method Cable percussive	Plant used Dando 2000	Sheet number Sheet 1 of 2
							Water added details		Casing details		Level (m OD)	Logged by	Revision
							Depth (m)	Water added (l)	Diameter	Base depth (m)	171.28	JT	01
									150 mm	15.00	Co-ordinates 389349E, 410387N	Status FINAL	BH06

Cowm Top
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INSTALL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (mOD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
						S 10.50	(3) 14	10.50	5.50			10.50 10.50	10.95 10.95	B D
						S 12.00	(3) 13	12.00	7.00			12.00 12.00	12.45 12.45	D B
						S 13.50	(3) 14	13.50	7.80			13.50 13.50	13.95 13.95	D B
						S 15.00	(3) 15	15.00	8.00			15.00	15.45	D
	BOREHOLE TERMINATED AT 15.45m	15.45	155.83											

Notes Terminated at scheduled depth. Groundwater recorded at 5.0m at the start of the second day.	Groundwater observations						Chiselling details		Drilling details		Title		Date(s)	
	Strike (m)	5mins	10mins	15mins	20mins	Comments	Depth (m)	Duration (hh:mm)	Diameter	Base depth (m)	Borehole record		30/07/2024 - 31/07/2024	
	8.60				7.5						Method	Plant used	Sheet number	
							Water added details		Casing details		Level (m OD)	Logged by	Revision	
							Depth (m)	Water added (l)	Diameter	Base depth (m)	171.28	JT	01	
									150 mm	15.00	Co-ordinates	Status	BH06	
											389349E, 410387N	FINAL		

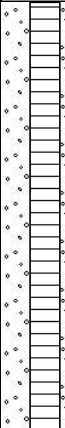
Cowm Top
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INSTALL		STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING									
		DESCRIPTION	DEPTH (m)	REDUCED LVL (mOD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE							
		Grass onto dark brown slightly gravelly slightly clayey fine to medium SAND with frequent rootlets. Gravel is fine subangular sandstone. (TOPSOIL)	0.40	166.53			S 1.50	(3) 16	1.50	DRY			0.10	0.40	B							
													0.40	1.20	B							
		Firm brown slightly sandy slightly gravelly CLAY. Gravel is medium to coarse subrounded to rounded sandstone. (HUMMOCKY GLACIAL DEPOSITS)	1.20	165.73									1.50	1.95	B							
		Medium dense brown slightly silty fine to medium SAND. (HUMMOCKY GLACIAL DEPOSITS)											1.50	1.95	SPTLS							
													3.00	3.45	B							
													3.00	3.45	SPTLS							
													4.50	4.95	B							
													4.50	4.95	SPTLS							
													6.00	6.45	B							
													6.00	6.45	SPTLS							
													7.50	7.95	B							
													7.50	7.95	SPTLS							
		Stiff greyish brown slightly sandy CLAY. (HUMMOCKY GLACIAL DEPOSITS)	8.50	158.43			S 7.50	(3) 11	7.50	6.50			8.50	8.50	D							
													9.00	9.45	UT(85)							
			9.50	157.43									9.50		D							

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Notes Terminated at scheduled depth.	Groundwater observations						Chiselling details		Drilling details		Title		Date(s)
	Strike (m)	5mins	10mins	15mins	20mins	Comments	Depth (m)	Duration (hh:mm)	Diameter	Base depth (m)	Borehole record		30/07/2024
											Method	Plant used	Sheet number
											Cable percussive	Dando 2000	Sheet 1 of 2
							Water added details		Casing details		Level (m OD)	Logged by	Revision
							Depth (m)	Water added (l)	Diameter	Base depth (m)	166.93		
									150 mm	15.00	Co-ordinates	Status	BH07
No groundwater strike recorded										389134E, 410256N	FINAL		

Cowm Top
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INSTALL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (mOD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	Dense becoming medium dense brown slightly silty fine to medium SAND. (HUMMOCKY GLACIAL DEPOSITS)		151.48			S 10.50	(6) 32	10.50	9.50			10.00		D
												10.50	10.95	B SPTLS
						S 12.00	(4) 16	12.00	11.00			12.00	12.45	B SPTLS
						S 13.50	(3) 16	13.50	11.50			13.50	13.95	B SPTLS
						S 15.00	(3) 15	15.00	12.00			15.00	15.45	SPTLS
	BOREHOLE TERMINATED AT 15.45m	15.45	151.48											

Notes	Groundwater observations						Chiselling details		Drilling details		Title		Date(s)
	Terminated at scheduled depth.	Strike (m)	5mins	10mins	15mins	20mins	Comments	Depth (m)	Duration (hh:mm)	Diameter	Base depth (m)	Borehole record	30/07/2024
												Method Cable percussive	Plant used Dando 2000
								Water added details		Casing details		Level (m OD)	Logged by
								Depth (m)	Water added (l)	Diameter	Base depth (m)	166.93	TT
	No groundwater strike recorded									150 mm	15.00	Co-ordinates 389134E, 410256N	Status FINAL

BH07

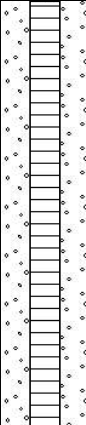
Cowm Top
STV5936

INSTALL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (mOD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	Grass onto soft dark brown slightly sandy slightly gravelly CLAY with frequent rootlets. Gravel is fine subrounded sandstone. (TOPSOIL)	0.40	167.04									0.10	0.40	B
	Medium dense brown very silty slightly gravelly fine SAND. Gravel is fine subangular to subrounded sandstone. (HUMMOCKY GLACIAL DEPOSITS)					S 1.50	(6) 17	1.50	DRY			1.50	1.95	SPTLS
		2.00	165.44			S 3.00	(5) 15	3.00	2.00			2.00	3.00	B
						S 4.50	(10) 39	4.50	2.80			4.50	6.00	B
						S 6.00	(8) 35	6.00	3.20			6.00	7.50	B
						S 7.50	(12) 39	7.50	3.80			7.50	7.95	SPTLS
		8.00	159.44			S 9.00	(13) 40	9.00	8.20			9.00	9.45	SPTLS
	Dense becoming medium dense brown slightly silty fine to medium SAND. (HUMMOCKY GLACIAL DEPOSITS)													

CONTINUED ON NEXT SHEET.

Notes	Groundwater observations						Chiselling details		Drilling details		Title		Date(s)	
	Terminated at scheduled depth.	Strike (m)	5mins	10mins	15mins	20mins	Comments	Depth (m)	Duration (hh:mm)	Diameter	Base depth (m)	Borehole record		25/07/2024
												Method	Plant used	Sheet number
								Water added details		Casing details		Level (m OD)	Logged by	Revision
								Depth (m)	Water added (l)	Diameter	Base depth (m)	167.44	TT	01
	No groundwater strike recorded									150 mm	15.00	Co-ordinates	Status	BH08
												389254E, 410250N	FINAL	

Cowm Top
STV5936

INSTALL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (mOD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
						S 10.50	(8) 19					10.50 10.50	10.95 10.95	B SPTLS
						S 12.00	(5) 15					12.00 12.00	12.45 12.45	B SPTLS
						S 13.50	(6) 15					13.50 13.50	13.95 13.95	B SPTLS
						S 15.00	(7) 21					15.00	15.45	SPTLS
	BOREHOLE TERMINATED AT 15.45m	15.45	151.99											

Notes Terminated at scheduled depth.	Groundwater observations						Chiselling details		Drilling details		Title		Date(s)
	Strike (m)	5mins	10mins	15mins	20mins	Comments	Depth (m)	Duration (hh:mm)	Diameter	Base depth (m)	Borehole record		25/07/2024
											Method	Plant used	Sheet number
											Cable Percussive	Dando 2000	Sheet 2 of 2
							Water added details		Casing details		Level (m OD)	Logged by	Revision
							Depth (m)	Water added (l)	Diameter	Base depth (m)	167.44	TT	01
	No groundwater strike recorded								150 mm	15.00	Co-ordinates	Status	BH08
										389254E, 410250N	FINAL		

Cowm Top
STV5936

INSTALL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (mOD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	Grass onto soft dark brown slightly sandy slightly gravelly CLAY with frequent rootlets. Gravel is fine to coarse subangular to subrounded sandstone. (TOPSOIL)	0.20	164.10									0.20	0.20	B D
	Soft brown slightly sandy gravelly CLAY with low cobble content of subrounded sandstone. Gravel is fine to coarse subrounded to rounded sandstone. (HUMMOCKY GLACIAL DEPOSITS)	0.70	163.60			S 1.20	(5) 14					1.20	1.65	B SPTLS
	Firm brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium subangular to subrounded sandstone. (HUMMOCKY GLACIAL DEPOSITS)					S 3.00	(4) 6					2.00	2.45	UT(10)
												3.00	3.45	B D
												4.00	4.45	B
						S 5.00	(5) 12					5.00	5.45	B SPTLS
						S 6.50	(6) 16					6.50	6.95	B SPTLS
						S 8.00	(6) 17					8.00	8.45	B SPTLS
						S 9.50	(4) 12					9.50	9.95	B SPTLS
	Stiff brown sandy SILT. (HUMMOCKY GLACIAL DEPOSITS)	6.50	157.80											

CONTINUED ON NEXT SHEET.

Notes	Groundwater observations						Chiselling details		Drilling details		Title		Date(s)
	Terminated at scheduled depth.	Strike (m)	5mins	10mins	15mins	20mins	Comments	Depth (m)	Duration (hh:mm)	Diameter	Base depth (m)	Borehole record	26/07/2024
												Method Cable percussive	Plant used Dando 2000
								Water added details		Casing details		Level (m OD) 164.30	Logged by TT
								Depth (m)	Water added (l)	Diameter	Base depth (m)	Co-ordinates 389048E, 410224N	Status FINAL
	No groundwater strike recorded									150 mm	15.00		BH09

STV5936

environmental • geotechnical • building fabric

[illegible]

Notes Terminated at scheduled depth.	Groundwater observations						Chiselling details		Drilling details		Title		Date(s)
	Strike (m)	5mins	10mins	15mins	20mins	Comments	Depth (m)	Duration (hh:mm)	Diameter	Base depth (m)	Borehole record		26/07/2024
											Method	Plant used	Sheet number
											Cable percussive	Dando 2000	Sheet 2 of 2
							Water added details		Casing details		Level (m OD)	Logged by	Revision
							Depth (m)	Water added (l)	Diameter	Base depth (m)	164.30	TT	01
No groundwater strike recorded								150 mm	15.00	Co-ordinates 389048E, 410224N	Status FINAL	BH09	

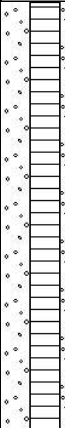
Cowm Top
STV5936

INSTALL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (mOD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	Grass onto soft dark brown slightly sandy slightly gravelly CLAY with frequent rootlets. Gravel is medium to coarse subangular to angular sandstone. (TOPSOIL)	0.40	164.16			S 1.50	(2) 7	1.50	DRY			0.10	0.40	B
	Soft dark brown slightly sandy slightly gravelly CLAY. Gravel is fine subangular to angular sandstone. Rare brick fragments. (MADE GROUND)	1.20	163.36									0.40	1.20	B
	Soft dark brown slightly sandy slightly gravelly CLAY. Gravel is fine subangular to angular sandstone. (HUMMOCKY GLACIAL DEPOSITS)											1.50	1.95	B
												1.50	1.95	SPTLS
												3.00	3.45	UT(25)
												4.50	4.95	B
												4.50	4.95	SPTLS
	Dense light brown gravelly slightly clayey fine to coarse SAND. Gravel is fine to coarse subangular to angular sandstone. (HUMMOCKY GLACIAL DEPOSITS)	6.00	158.56									6.00	6.45	D
												6.00	6.45	B
												6.00	6.45	SPTLS
	Medium dense light brown slightly silty fine to medium SAND. (HUMMOCKY GLACIAL DEPOSITS)	7.50	157.06			S 7.50	(6) 29	7.50	DRY			7.50	7.95	B
												7.50	7.95	SPTLS
						S 9.00	(8) 28	9.00	8.50			9.00	9.45	B
												9.00	9.45	SPTLS

CONTINUED ON NEXT SHEET.

Notes Terminated at scheduled depth.	Groundwater observations						Chiselling details		Drilling details		Title		Date(s)
	Strike (m)	5mins	10mins	15mins	20mins	Comments	Depth (m)	Duration (hh:mm)	Diameter	Base depth (m)	Borehole record		25/07/2024
	12.50				12.5						Method	Plant used	Sheet number
											Cable percussive	Dando 2000	Sheet 1 of 2
							Water added details		Casing details		Level (m OD)	Logged by	Revision
							Depth (m)	Water added (l)	Diameter	Base depth (m)	164.56	TT	01
									150 mm	15.00	Co-ordinates 389465E, 410182N	Status FINAL	BH10

Cowm Top
STV5936

INSTALL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (mOD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
			15.45			S 10.50	(6) 27	10.50	10.00			10.50 10.50	10.95 10.95	B SPTLS
						S 12.00	(6) 26	12.00	11.50			12.00 12.00	12.45 12.45	B SPTLS
						S 13.50	(4) 23	13.50	12.00			13.50 13.50	13.95 13.95	B SPTLS
						S 15.00	(5) 25	15.00	14.00			15.00	15.45	SPTLS
						BOREHOLE TERMINATED AT 15.45m								

Notes	Groundwater observations						Chiselling details		Drilling details		Title		Date(s)
	Terminated at scheduled depth.	Strike (m)	5mins	10mins	15mins	20mins	Comments	Depth (m)	Duration (hh:mm)	Diameter	Base depth (m)	Borehole record	25/07/2024
		12.50				12.5						Method Cable percussive	Plant used Dando 2000
								Water added details		Casing details		Level (m OD)	Logged by
								Depth (m)	Water added (l)	Diameter	Base depth (m)	164.56	TT
										150 mm	15.00	Co-ordinates 389465E, 410182N	Status FINAL
													BH10

Cowm Top
STV5936

INSTALL		STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
		DESCRIPTION	DEPTH (m)	REDUCED LVL (mOD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
		Grass onto soft dark brown slightly sandy slightly gravelly CLAY with frequent roots and rootlets. Gravel is fine to coarse subangular to subrounded sandstone. (TOPSOIL)	0.40	156.04			S 1.50	(3) 12	1.50	DRY			0.10	0.40	B																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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Brown slightly clayey gravelly medium to coarse SAND. Gravel is fine to coarse subangular to angular sandstone. (HUMMOCKY GLACIAL DEPOSITS)	1.20	155.24																		D																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Firm brown slightly sandy CLAY. (HUMMOCKY GLACIAL DEPOSITS)																				SPTLS B																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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		Loose to medium dense brown silty fine to medium SAND. (HUMMOCKY GLACIAL DEPOSITS)	2.50	153.94			S 3.00	(3) 10	3.00	DAMP																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

CONTINUED ON NEXT SHEET.

Notes Terminated at scheduled depth.	Groundwater observations						Chiselling details		Drilling details		Title		Date(s)
	Strike (m)	5mins	10mins	15mins	20mins	Comments	Depth (m)	Duration (hh:mm)	Diameter	Base depth (m)	Borehole record		25/07/2024
	13.00				13.0	Slow					Method	Plant used	Sheet number
							Water added details		Casing details		Cable percussive	Dando 2000	Sheet 1 of 2
							Depth (m)	Water added (l)	Diameter	Base depth (m)	Level (m OD)	Logged by	Revision
									150 mm	13.50	156.44	TT	01
											Co-ordinates 389293E, 410105N	Status FINAL	BH11

Cowm Top
STV5936

INSTALL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (mOD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
						S 12.00	(3) 16	12.00	DRY			10.50	10.95	UT(45)
												11.00		D
												12.00	12.45	SPTLS
												13.50	13.95	UT(65)
												14.00		D
	BOREHOLE TERMINATED AT 15.45m	15.45	140.99			S 15.00	(5) 18	13.50	DRY			15.00	15.45	SPTLS

Notes Terminated at scheduled depth.	Groundwater observations						Chiselling details		Drilling details		Title		Date(s)
	Strike (m)	5mins	10mins	15mins	20mins	Comments	Depth (m)	Duration (hh:mm)	Diameter	Base depth (m)	Borehole record		25/07/2024
	13.00				13.0	Slow					Method	Plant used	Sheet number
							Water added details		Casing details		Level (m OD)	Logged by	Revision
							Depth (m)	Water added (l)	Diameter	Base depth (m)	156.44	TT	01
									150 mm	13.50	Co-ordinates	Status	BH11
											389293E, 410105N	FINAL	

Key to legends

Composite materials, soils and lithology					
	Topsoil		Made Ground		Boulders
	Clay		Coal		Cobbles
	Gravel		Limestone		Mudstone
	Sand		Sandstone		Silt
					Siltstone
					Peat
					Concrete
					Chalk

Note: Composite soil types are signified by combined symbols.

Key to 'test results' and 'sampling' columns

Test result		From (m) To (m)	Records depth of sampling	
Depth	Records depth that the test was carried out (i.e.: at 2.10m or between 2.10m and 2.55m)		D	Disturbed sample
			B	Bulk disturbed sample
			ES	Environmental sample
			SPTLS	SPT liner sample
		Type	W	Water sample
			U	Undisturbed thick-walled sample 100mm diameter sampler
			UT	Undisturbed thin walled sample 100mm diameter sampler
			UTF	Failed undisturbed sample
Result	PP – Pocket penetrometer result reported as an equivalent undrained shear strength (kN/m²) by applying a factor of 50. SV – Hand held shear vane result reported as an undrained shear strength (kN/m²). Where multiple readings are taken at the same level the average value is shown on the log. * Signifies that instrument limit reached. SPT – Standard Penetration Test result (N value uncorrected)^{1,2,3} SPT(c) – Standard Penetration Test result (solid cone) (N value) (uncorrected)^{1,2,3} * Signifies that the test was terminated before full penetration was achieved. UT – Undisturbed sample 100mm diameter sampler with number of blows of driving equipment required to obtain sample			
Sampling				

Note 1: Total seating blows recorded in brackets.

Note 2: Casing depth records depth of casing when SPT or SPT(c) was carried out.

Note 3: Water depth records depth of water when SPT or SPT(c) was carried out.

Water observations

Described at foot of log and shown in the 'water strike' column.

 Water level observed after specified delay in drilling

 Water strike

Density

Density recorded in brackets determined by qualitative field assessment or inferred from density testing and soil descriptions from across the site (i.e.: [Medium dense]).

Installation details

	Gravel filter		Bentonite
	Slotted pipe		Unslotted pipe
	Arisings		Grout
	Extensometer magnet		Vibrating wire piezometer

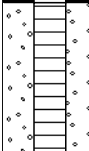
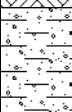
Cowm Top
STV5936

INSTALL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (mOD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	Grass onto soft dark brown sandy CLAY with frequent rootlets. (TOPSOIL)	0.20	171.10			S 1.00	(8) 16					0.15		D
	Medium dense orangish brown slightly gravelly silty fine SAND. Gravel is medium rounded quartzite. (HUMMOCKY GLACIAL DEPOSITS)													
	Medium dense orangish brown fine to medium SAND. (HUMMOCKY GLACIAL DEPOSITS)	1.52	169.78			S 2.00	(8) 22			PP 1.60	PP 192	1.30		D
												1.80		D
												2.20		D
	Medium dense orangish brown slightly clayey fine to medium SAND. (HUMMOCKY GLACIAL DEPOSITS)	3.00	168.30			S 3.00	(6) 16			PP 3.20	PP 192	3.30		D
						S 4.00	(7) 22							
												4.50		D
						S 5.00	(8) 26							
	BOREHOLE TERMINATED AT 5.45m	5.45	165.85											

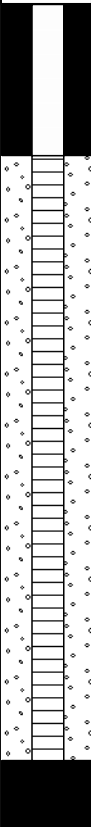
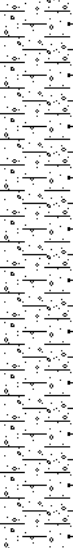
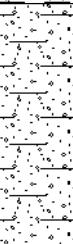
Notes Terminated at scheduled depth	Groundwater observations						Title Dynamic windowless sampling record			Date(s) 23/07/2024	
	Strike (m)	5	10	15	20	Comments	Recovery details			Method Dynamic (windowless) samp	Plant used Windowless sampling rig
							Range (m)	Recovery (%)		Level (m OD) 171.30	Sheet number Sheet 1 of 1
							1.20 - 2.00	95			
							2.00 - 3.00	95			
							3.00 - 4.00	85			
							4.00 - 5.00	75			
	No groundwater encountered						Co-ordinates 389042E, 410448N		Status FINAL	Revision 01	
										WS01	

INSTALL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (mOD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	Grass onto soft dark brown sandy CLAY with frequent rootlets. (TOPSOIL)	0.20	167.31										4.50	D
	Firm light brown mottled orange slightly sandy slightly gravelly CLAY. Gravel is fine to medium subangular to rounded sandstone and quartzite. (HUMMOCKY GLACIAL DEPOSITS)					S 1.00	(8) 17			PP 1.30	PP 50	1.20		D
		1.40	166.11			S 2.00	(3) 12					1.60		D
	Firm brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine subangular sandstone and coal. (HUMMOCKY GLACIAL DEPOSITS)									PP 2.60	PP 104	2.40		D
						S 3.00	(10) 28			PP 2.90	PP 163	2.70		D
										PP 3.50	PP 167	3.40		D
						S 4.00	(12) 30			PP 3.70	PP 208			
										PP 4.30	PP 196			
										PP 4.60	PP 213			
						S 5.00	(12) 37			PP 4.90	PP 200			
	BOREHOLE TERMINATED AT 5.45m	5.45	162.06											

Notes Terminated at scheduled depth.	Groundwater observations						Title			Date(s)	
	Strike (m)	5	10	15	20	Comments	Dynamic windowless sampling record			23/07/2024	
							Recovery details		Method	Plant used	Sheet number
							Range (m)	Recovery (%)	Dynamic (windowless) samp	Windowless sampling rig	Sheet 1 of 1
							1.20 - 2.00	100	Level (m OD) 167.51	Logged by	Revision 01
							2.00 - 3.00	85			
							3.00 - 4.00	100			
	4.00 - 5.00	100									
No groundwater encountered								Co-ordinates 389010E, 410433N	Status FINAL	WS02	

INSTALL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING			
	DESCRIPTION	DEPTH (m)	REDUCED LVL (mOD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE	
	Grass onto soft dark brown sandy CLAY with frequent rootlets. (TOPSOIL)	0.30	166.90			S 1.00	(4) 16					0.10		D	
	Soft brown mottled orange sandy slightly gravelly CLAY. Gravel is fine subangular sandstone and coal. (HUMMOCKY GLACIAL DEPOSITS)											0.60		D	
	Firm brown mottled orange slightly sandy slightly gravelly CLAY. Gravel is fine subangular sandstone and coal. (HUMMOCKY GLACIAL DEPOSITS)	1.50	165.70			S 2.00	(6) 16			PP 1.40 PP 1.50 PP 1.70 PP 1.85	PP 125 PP 167 PP 108 PP 188	1.50		D	
										2.30	D				
										PP 2.90	PP 158			D	
	Medium dense brown slightly gravelly clayey fine SAND. Gravel is fine subangular sandstone and coal. (HUMMOCKY GLACIAL DEPOSITS)	4.30	162.90			S 3.00	(9) 27			PP 3.50 PP 3.80	PP 208 PP 217	3.50		D	
										4.50	D				
Firm brown slightly sandy slightly gravelly CLAY. Gravel is fine subangular sandstone and coal. (HUMMOCKY GLACIAL DEPOSITS)	4.80	162.40		S 5.00		(7) 31			PP 4.90	PP 192			D		
BOREHOLE TERMINATED AT 5.45m	5.45	161.75													

Notes Terminated at scheduled depth.	Groundwater observations						Title			Date(s)	
	Strike (m)	5	10	15	20	Comments	Dynamic windowless sampling record			23/07/2024	
							Recovery details		Method	Plant used	Sheet number
							Range (m)	Recovery (%)	Dynamic (windowless) samp	Windowless sampling rig	Sheet 1 of 1
							1.20 - 2.00	95	Level (m OD) 167.20	Logged by	Revision 01
							2.00 - 3.00	85			
							3.00 - 4.00	90			
	4.00 - 5.00	95									
No groundwater encountered								Co-ordinates 389025E, 410427N	Status	WS03	

INSTALL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (mOD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	Grass onto soft dark brown sandy CLAY with frequent rootlets. (TOPSOIL)	0.20	162.36									0.15		D
	Very soft light grey slightly gravelly sandy CLAY. Gravel is fine to medium subangular sandstone. (HUMMOCKY GLACIAL DEPOSITS)					S 1.00	(0) 0					0.70		D
						S 2.00	(2) 7					1.40		D
						S 3.00	(4) 14					2.70		D
												3.20		D
	Medium dense brown slightly gravelly slightly clayey fine to medium SAND. Gravel is fine subangular sandstone. (HUMMOCKY GLACIAL DEPOSITS)	3.85	158.71			S 4.00	(2) 12					4.00	5.00	B
						S 5.00	(12) 27							
	BOREHOLE TERMINATED AT 5.45m	5.45	157.11											

Notes Terminated at scheduled depth.	Groundwater observations						Title Dynamic windowless sampling record			Date(s) 23/07/2024	
	Strike (m)	5	10	15	20	Comments	Recovery details			Method Dynamic (windowless) samp	Plant used Windowless sampling rig
							Range (m)	Recovery (%)		Level (m OD) 162.56	Sheet number Sheet 1 of 1
							1.20 - 2.00	75		Co-ordinates 389026E, 410404N	Revision 01
							2.00 - 3.00	95		Status FINAL	WS04
							3.00 - 4.00	100			
	No groundwater encountered										
							4.00 - 5.00	80			