East Midlands Gateway Phase 2 (EMG2)

Document DCO 6.14C/MCO 6.14C

ENVIRONMENTAL STATEMENT

Technical Appendices

Appendix 14C

Minerals Safeguarding Assessment (EMG2)

October 2025



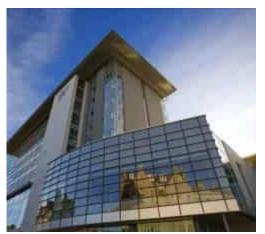
The East Midlands Gateway Phase 2 and Highway Order 202X and The East Midlands Gateway Rail Freight and Highway (Amendment) Order 202X



Minerals Safeguarding Assessment

East Midlands Gateway Phase 2, Land south of East Midlands Airport, Derby

July 2024











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Fairhurst is the trading name of Fairhurst Group LLP, a limited liability partnership registered in Scotland with the registered number SO307306 and registered office at 43 George Street, Edinburgh EH2 2HT.



ore Deration or one ded Decelor end	The site is located immediately south of East Midlands Airport and to the east of the village of Diseworth, centred on National Grid Reference 445940, 324550, within Leicestershire County Council. The site covers an area of c. 100 ha and is broadly rectangular in shape and can be accessed by vehicles and pedestrians from several access points. The site is currently occupied, comprising arable land with no structures aside from the overhead power lines in the west of the site and a telephone mast in the northeast. The land is divided into 20 individual fields with hedgerows marking their boundaries. The topography is undulating and generally falls towards the south, with an overall fall of c. 35 m from the northern to southern boundary.
	The development proposed includes construction of a number of warehouse, ancillary offices, associated services, access roads, parking and landscaping.
	ancillary offices, associated services, access roads, parking and landscaping. The purpose of this report is to determine the possible presence of economic minerals and to prevent the sterilisation of minerals which may be needed within the plan period and beyond. This report therefore aims to undertake a desk based review of available information pertaining to the geological setting of the site. The assessment has been carried out in accordance with the Leicestershire Minerals and Waste Local Plan by which consideration must be given to the extraction of any identified mineral resources prior to any permanent
	Minerals and Waste Local Plan by which consideration must be given to the
	The assessment of the potential for mineral extraction beneath the site, in accordance with the Leicestershire Minerals and Waste Local Plan identifies the following potential resources are present on site:
	Brick Clay (Mercia Mudstone)
Coclosion	Sand and Gravel (Glaciofluvial Deposits)
	Sand and Gravel (Diseworth Sandstone)
	It is concluded that extraction of these resources is not economically viable on the site, the reasons for which are set out within the report.



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FIGURE 1 - SITE LOCATION PLAN

APPENDIX A - LOCATION PLAN AND PROPOSED DEVELOPMENT DRAWING

APPENDIX B - MINERAL SAFEGUARDING PLAN OVERLAY

APPENDIX C - BGS BOREHOLE RECORD AND HISTORICAL BOREHOLE LOGS

APPENDIX D - STRUCTURAL SOILS BOREHOLE RECORDS



Fairhurst have been appointed by SEGRO PLC (the 'client') to undertake a Mineral Safeguarding Assessment to support the DCO submission for the proposed development on a plot of land to the north east of Diseworth, Derby, approximate post code DE74 2TN, National Grid Reference 445940, 324550 (the 'site').

The development proposed includes construction of a number of warehouse, ancillary offices, associated services, access roads, parking and landscaping. The proposed development plan and site boundary is provided in Appendix A.

The site requires assessment in accordance with Minerals Safeguarding Areas (MSA) – Leicestershire County Council adopted the Leicestershire Minerals and Waste Local Plan (LMWLP) dated September 2019, by which consideration must be given to the extraction of any identified mineral resources prior to any permanent redevelopment, with a view of avoiding sterilisation of potential mineral assets.

The purpose of this report is to determine the possible presence of economic minerals and to prevent the sterilisation of minerals which may be needed within the plan period (2031) and beyond. This report therefore aims to undertake a desk-based review of available information pertaining to the geological setting of the site and should be read in conjunction with the associated reports:

- Geo-Environmental Preliminary Risk Assessment (148749/R6, July 2024).
- Geotechnical Investigation Report (148749/R7, July 2024).



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The site is located south of East Midlands Airport, to the north east of the village of Diseworth and to the north-west of Junction 23a of the M1 motorway. The site has an area of approximately 100ha and currently comprises undeveloped (except overhead power lines to the west and telephone mast to the north-east) arable land with hedgerows and trees dividing the various fields. A public byway, known as Hyam's Lane, dissects the site from south-west to north-east.

The site is bounded to the north by Ashby Road (A453) with East Midlands Airport beyond. Donington Park Services, including a petrol station, is located immediately adjacent to the north-east. To the east lies an undeveloped parcel of land, the A42 and the M1. To the south the site is bounded by Long Holden public byway with fields situated beyond and to the south-west is the village of Diseworth, situated from adjacent.

The topography is undulating and generally falls towards the south, with an overall fall of c. 40 m from the northern to southern boundary. The highest point is at c. 92.6m AOD in the north-east corner of the site whilst the lowest is at c. 52.2m AOD located in the south-east corner.

The surrounding area is predominantly characterised by agricultural land with the exception of a commercial / light industrial park, East Midlands Airport, Donington Park Services and residential properties with gardens and commercial businesses within Diseworth.



A detailed review of the site history and immediate site surrounds has been undertaken within the Fairhurst Geo-Environmental and Geotechnical Preliminary Risk Assessment (148749/R5, May 2023). In summary, the review of historical mapping from Envirocheck confirmed the site to comprise predominantly agricultural fields to the earliest map available dated 1883. Numerous ponds have been identified, and a pump was introduced in 1921 in the north-east of the site. By 1975 all ponds were assumed to be infilled. No significant changes were noted herein.

The local area around the site appears to comprise agricultural land with ponds from the earliest available historical map dated 1883, with additional ponds in 1955 and an airfield in the north which later became known as East Midlands Airport. In 1966, the M1 motorway was constructed. Between 1972 and 1984, numerous ponds were assumed to be infilled, with tanks being noted 260m north-west of the site. Limited commercial buildings and a hotel was noted 100m north of the site with a junction linking the M1 to the A453 with further commercial buildings were constructed in 2000 along with Donington Park Service Station which is shown to comprise some earthworks as part of the development.



An intrusive ground investigation was undertaken by Structural Soils Ltd. between 5th September and 6th October 2022. A Factual Report has been produced and for the purpose of this report the exploratory hole logs and relevant laboratory test results have been included within Appendix D.

The following sources of information were reviewed as part of this Minerals Safeguarding Assessment and should be considered in conjunction with this report:

- British Geological Survey (BGS) online viewers (geology and hydrogeology) http://www.bgs.ac.uk/data/maps/; accessed on the 26th May 2024.
- British Geological Survey (BGS), Geology of Britain (1:50,000 Sheet No. 141, Loughborough, Solid and Drift (dated 2001). - www.bgs.ac.uk, accessed on the 26th May 2024.
- British Geological Survey (BGS) Leicestershire and Rutland Mineral Resource Information in Support of National, Regional and Local Planning (2002).
- British Geological Survey (BGS) Leicestershire and Rutland Mineral Resource Map, 1:100,000 (dated 2002).
- Fairhurst Geo-Environmental and Geotechnical Preliminary Risk Assessment (148749/R6, July 2024).
- Fairhurst Ground Investigation Report (148749/R7, July 2024).
- Structural Soils Ground Investigation Logs contained within Appendix D.
- Leicestershire Minerals and Waste Local Plan (LMWLP) adoption 2019 until 2031.



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As part of the Council's 'emerging plan' to create a new Local Plan for minerals and waste planning policy, the Leicestershire Minerals and Waste Local Plan (LMWLP) will provide the planning framework for Minerals and Waste development and set out the long-term vision through the plan period to 2031. This Minerals Safeguarding Assessment has been undertaken based on guidance contained within the proposed LMWLP.

It is understood that one of the main reserves in Leicestershire are construction aggregates, namely sand and gravel. Leicestershire has been a significant producer of aggregates, and the LMWLP aims to deliver 19.04 million tonnes of construction aggregates from primary sources to meet the identified needs of Leicestershire over the plan period. A set of 4 Minerals Objectives have been outlined in the LMWLP to ensure that the key delivery outcomes are achieved. The objectives pertinent to this Minerals Safeguarding Assessment are presented below:

• M1 – Supply of Sand and Gravel Aggregate

The County Council will ensure a steady and adequate supply of sand and gravel for aggregate purposes by:

- i) making provision over the plan period (2015 to 2031) for the extraction of some 19 million tonnes of sand and gravel
- ii) maintaining a landbank of at least 7 years based on the past 10 years average sales
- iii) giving priority to proposal for extraction to be worked as extensions to existing site operations
- M2 Supply of Sand and Gravel Aggregate from Existing Sites

The County Council will make provision over the plan period (2015 to 2031) for the supply of sand and gravel for aggregate purposes from the following locations:

- i) the extraction of remaining permitted reserves at the following existing sites: Brooksby, Cadeby, Husbands Bosworth, Lockington and Shawell
- ii) the following extensions to existing sites as shown on the Policies Map Insects:
 - Brooksby Spinney Farm and south of existing plant site
 - > Cadeby west of plant site; north of Brascote Lane; east of Newbold Road
 - Husbands Bosworth Butt Lane northern extension
 - Shawell western extension adjacent to Lutterworth Road; land south of Gibbet Lane to the west of the plant site; land to the south west of Cotesbach village; and eastern extension adjacent to Lutterworth Road north of Shawell village.
- M3 Sand and Gravel Extraction (Unallocated Areas):

In unallocated areas, planning permission to extract sand and gravel for aggregate construction purposes provided that it is an extension to a permitted sand and gravel site or is needed to meet an identified shortfall in the landbank; a new quarry to replace an existing site nearing exhaustion; or would offer significant benefits than allocated sites.

M5 - Brickclay

The County Council will ensure a steady and adequate supply of brick clay by:



- allowing extensions to existing sites where they are required to maintain a landbank of at least 25 years of permitted reserves to support the level of investment required to maintain and improve existing brick-making plan and equipment
- ii) giving priority to proposals for extraction site where it can be demonstrated that production cannot be maintained from existing sites and appropriate extensions to existing site.
- M11 Sand and gravel used for aggregate construction purposes within Minerals Safeguarding Areas in accordance with the Mineral and Waste Safeguarding documents, are to be protected from permanent sterilisation by other development.

The LMWLP also identifies a number of Allocated Sites to meet the need for primary aggregates. The subject site does not fall within the area of these Allocated Sites.

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The published British Geological Survey (BGS) 1:15,000 Sheet No. 141, Loughborough, Solid and Drift (dated 2001) and nearby BGS borehole records indicate that the geological setting of the site is as summarised below. An extract of the 1:15,000 geological map is provided in Appendix C.

The BGS maps indicate the site to be underlain by three superficial deposits; Head Deposit, Oadby Member and Glaciofluvial deposits. The Head Deposit is shown to surround the river in the north-west corner of the site and is described by BGS as clay, silt, sand and gravel although it is expected to be cohesive dominant given the cohesive nature of the surrounding soils. The Oadby Member is mapped as a long thin outcrop across the central area of the site as well as the north-east corner. The soils are described by BGS as Diamicton Till consisting of brown to grey clay with subordinate silt, sand and gravel where the gravel consists of chalk and flint and localised lenses of sand and gravel. The Glaciofluvial deposits are mapped across the majority of the northern half of the site. They are described by BGS as predominantly brown to red-brown sand and gravel with localised lenses of silt, clay or organic material.

The site is predominantly underlain by the Gunthorpe Member, comprising mudstone with subordinate dolomitic siltstone and fine-grained sandstones. It is considered that the upper zone of the Gunthorpe Member will be encountered as a weathered material consisting of clay with mudstone lithorelicts. The Diseworth Sandstone, a subgroup of the Gunthorpe Member, is shown to outcrop in the western, central and eastern areas of the site and is expected to be encountered at depth elsewhere. Based on the BGS map, the strata demonstrates a dip of 0.5 to the south.

Due to the absence of historical development on site, significant Made Ground deposits are not anticipated across the majority of the site. However, as identified in the walkover section, 2 No. infilled clay pits are situated on the northern boundary which were reportedly infilled with clay and brick rubble c.10 years prior to the Fairhurst visit.

A ground investigation was undertaken on site by Structural Soils in September 2022 under the instruction of Fairhurst to inform a Ground Investigation Report submitted in support of a pre-planning application. The intrusive works comprised 38 No. machine dug trial pits (TP01 to TP37, and TP39) to a maximum depth of 4.00 m bgl, 7 No. soakaway tests within the trial pits, 27 no. cable percussive boreholes with rotary follow-on (BH01 to BH27) to a maximum depth of 31.00 m bgl; 38 no. cable percussive boreholes (CP01 to CP28) to a maximum depth 17.21 m bgl; along with geotechnical and geo-environmental laboratory testing. The exploratory hole location plan and logs from this ground investigation are presented in Appendix D.

A summary of the ground conditions is included in Table 4-1 below.



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Topsoil	All exploratory hole locations (aside from where Made Ground is encountered)	0.10 - 0.85	91.0 - 58.5
Made Ground	(BH04, BH12, BH25, CP27, TP08, TP25, and TP37)	0.20 – 3.00	86.0 – 53.0
Oadby Member	21 No. positions, most extensively found E-W through the centre of the site (cross section line B-B)	1.70 – 16.40	85.8 – 64.0
Glaciofluvial	61 No. Positions, most extensively found E-W through the centre of the site (cross section line B-B)	0.40 – 17.30	89.7 – 53.4
Weathered Gunthorpe Member	73 No. positions, less extensively present where significant superficials soils are found	1.40 – 18.50	88.2 – 51.0
Gunthorpe Member	33 No. positions	> 33.35	< 28.0

Please refer to the Fairhurst Ground Investigation Report (148749/R7) for full details of the ground conditions encountered.

Glaciofluvial Deposits are a source of sand and gravel for extraction and have been identified on site during the ground investigation. The Leicestershire Minerals and Waste Local Plan states such deposits "are worked in Leicestershire, but they are exploited modestly due to the proximity of more readily worked river deposits" suggesting although the deposits are worked it is unlikely they are practically or economically viable to extract.

The Glaciofluvial Deposits encountered on site were found to comprise predominantly cohesive material interbedded with granular deposits meaning the take-home yield from these deposits would be very low with increased processing and sorting costs incurred.

Particle Size Distribution testing undertaken as part of the Fairhurst Ground Investigation indicates silt contents are 15-68% and clay contents are 5-21% for the granular Glaciofluvial strata suggesting the fines content of these deposits would be too high for economical extraction.

□□□ □r c □ Clay

The Leicestershire Minerals and Waste Local Plan (LMWLP) identifies the Mercia Mudstone as the principal brickclay resource in Leicestershire. The Gunthorpe Member, a subgroup of the Mercia Mudstone, is shown to underlay the entire site on the Mineral Plan Overlay included in Appendix B and, as shown in Table 4-1, was proven during the intrusive ground investigation. However, extraction of the deposit is not considered practical or economically viable given the following:

- the exploratory hole logs indicate horizons of siltstone and sandstone are interbedded within the mudstone meaning costly material processing and sorting would be required post excavation.
- the economic and environmental cost of importing suitable fill material following extraction of the resource would make extraction unviable



 the site is not within close proximity of an existing brickworks therefore is not prioritised for extraction

Therefore, the Mercia Mudstone present on site is not seen as a viable resource suitable for extraction.



The "Boundary of area assessed for sand and gravel at the indicated resource level" is indicated on site and is interpreted to represent outcrops of the Diseworth Sandstone based on comparison with the BGS 1:50,000 scale maps. Although these deposits are indicated to outcrop on site

In accordance with the LMWLP, proposals to extract reserves should be given priority to existing site operations. Current sites of extraction include Brooksby, Cadeby, Husbands Bosworth, Lockington and Shadwell. Since the subject site is not within these areas it is unlikely that the subject site will be considered appropriate or sustainable for extraction in accordance with the requirements of the LMWLP.

The ground investigation report found the Diseworth Sandstone is not extensive across the site with variable thicknesses found within the rotary borehole logs (0.15m to 2.15m). The results also suggest limited lateral continuity across the site where the sandstone strata are often interbedded with the mudstone/siltstone strata. As such, it is not considered practical or economically viable to extract the Diseworth Sandstone as a construction aggregate.

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Shallow groundwater was identified on site during the ground investigation and it was concluded a groundwater body is present between depths of 1.25m and 15.32m bgl within the Glaciofluvial, Weathered Gunthorpe Member and Gunthorpe Member. This hinders resource extraction at this site as groundwater pumping would be required and there is increased risk of excavation instability.

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Fairhurst have been appointed by SEGRO (the 'Client') to undertake a Mineral Safeguard Assessment to support a planning application for the proposed development.

Glaciofluvial Deposits composed of granular material (sand and gravel) have been identified on site and, although these soils are sporadically worked in the region, it is not considered the deposits on site will be economically viable to extract. This is due to the relatively unsorted nature of the deposits and their limited extent across the site.

The Gunthorpe Member, the principal bedrock across the site, is identified as a potential resource of brickclay. This report has deemed it unsuitable for extraction given the site's location as it is not close to existing clay pits, there would be an unacceptable environmental cost of importing replacement fill material and the deposit is interbedded with siltstone and sandstone increasing the material processing costs.

It is evident that the Diseworth Sandstone is not extensive across the site with variable thicknesses and limited lateral continuity of the sandstone which is interbedded with mudstone and siltstone strata. As such, it is not considered practical or economically viable to extract the Diseworth Sandstone as a construction aggregate.





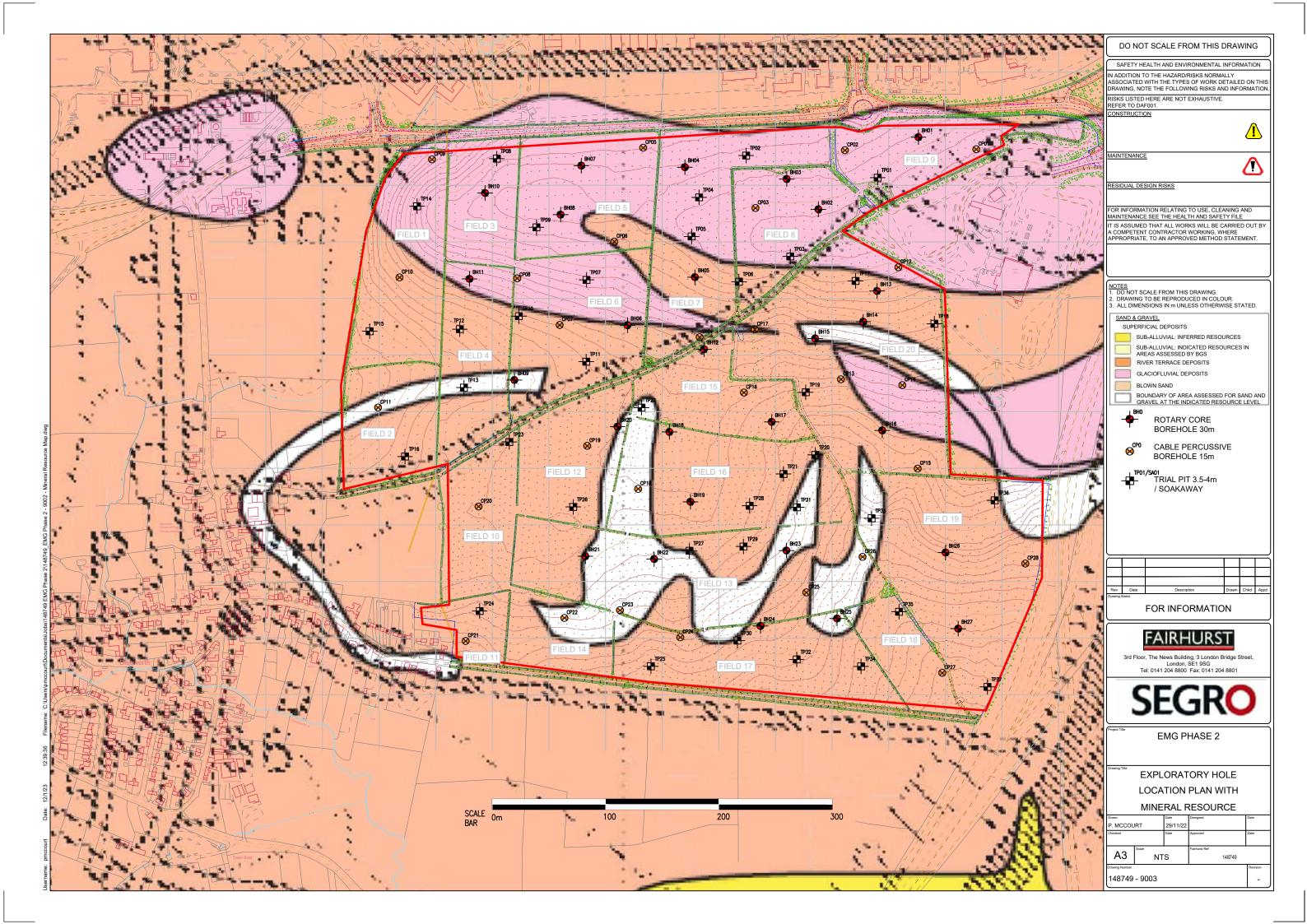


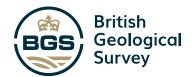
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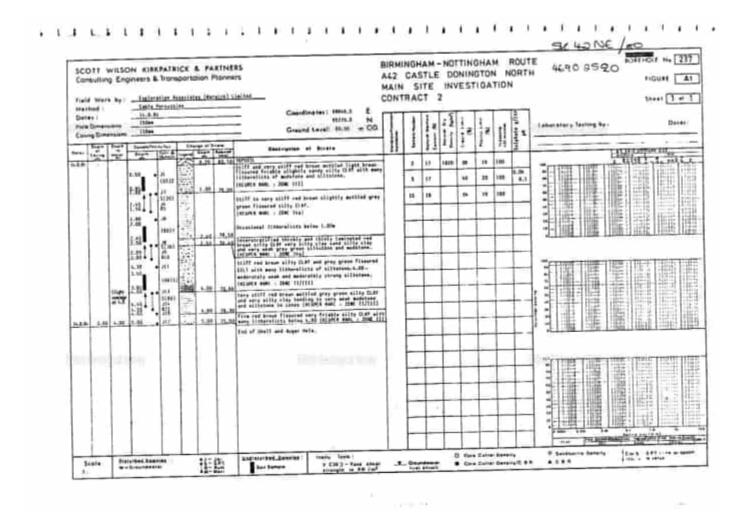


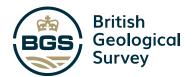
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Report an issue with this borehole





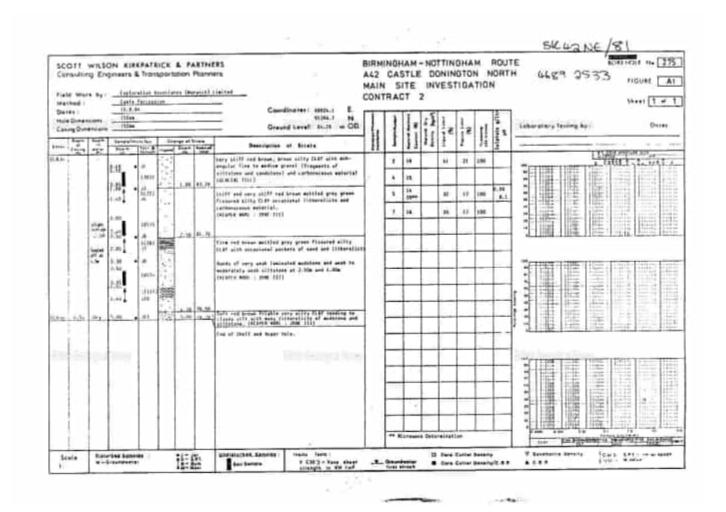


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emarks	Note: A	ost jainte	s rec heri	overed	sfter :	5 attempts to core Bedding within 5° of horizontal				00.2	
orehole			_	P	rojec	Department of Transport #564 Stoke - Derby Link Derby Southern By Fana		Contract \$7	796	14	
pioret	oration associates					Isley Walton to Mi Settion	ı	Boreho	ie .	- 111	_
	oration associates					Preliminary Site Investigation		Sheet 2		****	

Sempling		Prope	ertie	•	Stra	ta					
Depth	Туре	Strength kN m²	:	SPT	Descr	ption		Depth	Level	Legend	_
E in Comment			T	T	Turf	over 10PSOIL		- C.L	83.77	2000	ī
0.30	D	l	1	1	Sale.	fire light brown and brown silty sand	i. ri su	0.20	83.57		П
- 0.50-0.90	U(70)	80	19	1		fire-ending strong angular rock from		-		===	1
-						ine gravel.		=	l		-
_			1	1				0.90	\$2.87	2.5	-
		1	1	1	9000.0	ER		E	1		1
			1.	1	_			E 1.50	82.27	=	1
1.50	.0	l	9	1	Fire-	Stiff friable light brown silty very	sandy	E 1.30	02.27	27	1
2.00-7.45	50	l	1	-44		with fine wellse and course and		E	ı	Toronto C	1
1100-11-0		1	1			fragments and gravel.		E	1		1
		l	1		1			Ė.		-	١
		1	1					F		7.7	١
2.80	0	1	ı	1	-			2.60	80,97		ı
1.00-1.35	り(な)	1	. 19	1	Soft-	fire very friable light red brown ver	y silty	-			ı
	1	l		1		sandy CLSY/clayey sandy SILT and fine	SAND.	E	1		1
-			1	I	Shear	surfaces within the silty CLAY.		=	1	-	1
1.83	. b		21		-			Ė 3.70.	80,97	-	
in the second point	1975		1		Elm I	Friable red brown coarse sandy CLAY a	E e b	E,	03/17/0	Contract of	
		l	1	i			110	E			1
			1	ı	01804	carbonacious fragments.		=	ı	CETT	1
4.504.95	0(60)		1		ı			F			ı
					_			4.80	78.97		1
-			1		l			-			1
			1	1							ı
5.50	0		1	ı	(Very	dense) matrix of very stiff trawn re-	i bean	-		44.	ı
			1	ı		my brown milty mandy CLAY, fine medi-		=			ı
6.00	30		9	۱		angular rock fragments, GRAVEL and I		=			ı
6.00	30		١,	١	l			E			ı
				ı	l			E		-	ı
				l	l			=			ı
								E	ı	700	ı
•					l			-		200	ı
7,30	5		1	-	l			=	1		ı
al Library	anii I				l			-	1130	1	ı
			1		1			Ε			ı
	l 1							Ε.			ı
			1 1					=			ı
8.30	50			1	220	V In two of our factor	3	8.30	75.47	To all	ı
8.50-8.65	363		15	500	Very w	esk weathered dark red brown SILISTOR	E /	E 8-50	75.27	-	I
Orill Aum	Fluid	Core Recovery	FI	HQ0				E		==	ı
	Aetum	MEGGIFF F	-		An abou	ve, though broken in a matrix of fire		= 1			1
	100%	854	>25	WIL	clay p	nd containing several places of round	ed invarte	=		·	ı
S	- 1			300*	deaner		***	9.5	74.27		۱
9.70-9.75	SD				See ove	ir .		Ε .			ı
	- 1				Continue	ed frmm 10.00		10.00	n.n		ı
rilling					Grau	nd Water					_
	_	Te	-	Fluid	Struck	Behaviour	Seated	Date	Hole	Cased W	81
ell & Auger stary Core	5.L	7.30	0.15		MII.	Mater Flush returns last at 11.00		25.3.81	\$4.	-:	þ
ell & Auger	7.30	7.50 8.50	0.072			Balle (Ambrel Com		25.3.91	7.00	7.00	n.
stary Core	8.50		0.072					25.3.81 27.1.61	8.5	1.3	3
	lock chi	sel used	free 0	.9-1.5	, 3.4-3.4 (mt-1)	5, 5.0-5.8 (5.5 hours) 7.0-7.3, 7.5-	R.5 (4 ho	ura)			11.
			id fr	- 1		of to 13.5m with bottom 2m perforate Martine Department of Transport	t and sur	Contract		et	_
lorehole	Mec	ord			Proje	A564 Stoke - Derby Link	- 1	527			
			_			Derby Southern By Pass		Bereh		10	-
xplorati	on a	ssocia	100	١,		Isley Waltun to MI Section Proliminary Site Investigation	, I	Sheet 1			
				_		LASTINGLA UTIN THASTERDEZTON					_

Sempling		Prope	rtie	•	Stra	te		0.		AJE.	, , ,
Drill Run	Fluid Heturn	Core	FI	HOD	Descr	ption		Depth	Level	Lege	md
Set 2	100#	75%	15	35	Dark r	oed from 10.00 edding brown fine grained, very thin phly weathered alley MEDGINE - very smal coderately weak, extremely close with bunds of grey green strong SILTS	week.	-	73.77		
11.00	41 L	100%	10	65	(20)	aren bunds or grey green strong sitti	IONE.	Ē			
11.50	MIL	60%	slay	clay	Dark ri frages	ddish brown silty CLAY with mudstons		11.60	72.17	7	
12.00	#1L	90%	15	NIL.	Dark re highly very as horizon	edish brown becoming grey green Fine anathered slity MULSIONE becoming at \$2 4th extremely closely spaced par- tal joints. Pertical joints notes green strong clitthone and hands of lines slitting and bands of fire at [John].	prained itstans distans although complete ity (Lar	12.00	71.77		
13.00					End of	Borehale		E13.00	70.77		
وجاله	mil							-		gaz fa	vi -
				ing Respirately		and and and and and and and		roce lin			
rilling	-				_	d Water					
• Fr	am T	0 1	lize F	uid S	ltruck	Behaviour	Sealed	Date	Hole (bees	Wate
let may 7	hanij			F		benja sil			-		
marks		ng with S	of h	orlaunt	tal			-		_	
rehole F	ehole Record			P	rojec	-304 Stoke - Delby Flish		Contract 52796			
	ploration associates					Southern Derby By Pasa		Borehole 10 Sheet 2 of 2			

	British Geologic	d Surv	7					MY WIDEHING JUNCTION 21 TO 30 PRELIMINARY GL- CONTRACT 2	Boreto Ronto	et
Mactione: Plosh :				Diamet Omm c	ner med to 2.25m		L#Y## (mO	Dj Client Historian Assessor	Job Munds WALOR	#1
Cerr Dis:	enen		Locatio		325439 N		J01/2007- J01/2007	Engineer Amp	Sheet 1/2	
Degith (Hij	TCR	SCR	RQD	n	Field Records	(HIOD)	Depits (70) (Thicknes	Description	Legeno	Water
0.00	PIT		0	0	Groundwiser was not appresent change boring(1) at 0.00m.		(1.26	Inspection Pit.		¥ι
1.20	95	O	0	0	-	83.65	130	Open Hole.		
229	gar keng		0	0	23/01/2007;DRY 23/01/2007: 23/01/2007: 24/01/2007:	82.65	49.75	Firm locally financed red brown slightly growth CLAY. Gravel is subrounded, fine to cottoe of mistations.	=	
2.05 3.60-3.92 3.60	93	0,	0	0,	25/21/37/44/50 SPT 25/75 152/547	81.80	2.04	elitations. Self CLAY to very week, and brown MUDSTCRE, with widely spaced very their to this bads of light gray moderately strong allestons. Discontinuities withernely closely and very closely succeed, traddomly orthited, reveal and emocratic		
	87	12	0	0				scensionally studied block.		
5.10-5.36 5.10 5.00	100	,	o	o	25/37,39,50 5PT 25/75 110/125			From 8.10m to 5.30m; assumed zone of core loss.		
6.60-6.72 6.60					25/60 5PT 25'/75 60/42		##			
	78	10	.7	0	25/50					
E.10-E.19 E.10					SPT 25-775 50/18			From 8,10m to 8.43m; assumed zone of core loss.		
9.05	100	32	10	0	P2					
9.60-8.71 9.60	(p.(.tr/)				2550 6PT 25175 50/32	76.26	9.86	Viveal: careably offi clay to residentially week, red brown MUDSTORE, office which years and very this and this hade of week and inscharately strong light per SILTSTORE.		
Remarks								Scale (Approx) 1:50	Ey OP	il.
								Figure N	ka.	

Marie Carbing Dimension Holms Carbing Dimension Holms Carbing Dimension Holms	(4)	British Geologic	d Surve	7					Site MY WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2	Borehole Bumber RC1075
Complete									Client	Job Skunber WALOGOOK
Monitorentely to widely, institute double growth production and account it.	Method :	total control				325439 N	21	M01/2007- M01/2007		Sheet 2/2
11.10 11.20	Desith (Mi)	TCR	SCR	ROD	n	Field Records	Legal (HIOD)	Depth (ff0) (Thickness)	Description	Legend 8
11.10-11.20 57 28 B D D 12.50 13.10 100 40 15 D 14.10 14.21 14.80 100 38 23 D 15.50 24.01/2007:DRV 87.85 24.01/2007:DRV 87.85 17.20 Complete at 17.20 Remarks (2.50)	10.30	67	16	G	0	P3		landalana.	Moderately to widely intertheritied zone I and zone II. Discontinuities: zone II mean - entrainely closely fractional, condomly orientable, rough and smooth. Zone I areas - vertical institution, rough, occasionally black standing and clay lefts, very closely to medium spaced. Hostontal and authorizedtal, rough and smooth, clean, moderately to widely spaced. Of degrees, rough, with some black straining.	
2.50 3.10 100 40 15 0 P4 4.10 4.10-14.21 4.80 100 38 23 0 P5 3401/2007 DHY 2401/2007: 47.55 17.20 Complete at \$7.20m Complete at \$7.20m	1.10-11.29	97	28	'n	0	GPT 25'/75				
100 49 15 0 2550 FT 25/75 5027 15.50 FT 25/75		protessing								
14.80 100 38 23 0 P5 16.90 Senteple / Teens County Office	13.10	100	40	15	0,	P4		(7.60)		
16.50 Saniquie Teats Casting Water Best Dispress Dispr	4.10 4.10-14.21					25.50 SPT 25'/75 50/37				
14.94-17.20 U6 24/01/2007:DRV 27.65 17.20	14.80	100	38	23	0	P5				
24/01/2007:DRV 67.65 77.20 Complete at 17.20m	5.90	Sangda	Teats	Sandring Brights ship	Water Depth (th)	1				
24/01/2007: Complete at 17:20m Gentle (Approx) by 150 OP	14.84-17.20	U4					87.86	17.20		
Remarks (Approx) Lyon									Complete at 17.20m	
Remarks (Approx) Lyon by 150 OP										
1:20 Ob	Test See	piltrii				1000	1			
	Remarks			-			•			
Figure No.									t.so Figure	No.

	British Geological Surve						Site M1 WIDENING JUNCTION 21 TO 35 PRELIMINARY G CONTRACT 2	Trial Pit Number TP106
excavation	Method	Dimens	ilons			Level (mOD) 92.45	Cilett Highways Agency	Job Number WAL0600
		Locatio 44	n 6847 E 3251	14 N	Dates 12	/10/2006	Engineer Arup	Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field	l Records	Level (mOD)	Depth (th) (Thickhess)	Description	Legend
0.50 1.50 2.00 2.50 3.50 4.00	B1 B2 D3 B4 D5 B6 D7 B8		Trial pit sons	er at 2.90es(1)	92.25 91.65 79.65	(2.00)	Grey brown slightly gravely clayey TOPSOIL with frequence fields. Gravel is medium to coarse, submigular to subtrounded of sandstone. Soil to firm prange brown slightly sandy gravelly CLAY. Gravel is medium to coarse, submigular to subtrounded a sandstone, quant and scassional to some submigular to substangular to subtrounded cotibles of quartrand sandstone. Occasion roots. Firm to stiff pink brown locally slightly sandy CLAY with occasional to some madatone lithinelics, locally highle. Occasional cobble sized pockets of green grey sit. At 1.60m; pocket of slightly clayey medium grained san From 1.90m; locally tarnivated clay with frequent lithonelics. Occasional bands cup to 40mm thick; of moderately strong sandstone/slistione. Below 2.50m; locally a weak slitistone. Orange firm 1700h week to moderately strong SILTSTO Retrieved as a sit with hequest lithonelics and cobbles or slitistone. Some bands of grey green sillistone. Complete at 4.00m	d d
Plues .	* *	*		• •		4	emarks Prior to excavation a Cable Avoidance Tool (CAT) stayey	as conject out
· ·	* *	15	*:			- 1	Prior to excavation a Cable Avoidance Tool (CAT) stayes of Sensices were not encountered. No visual or offactory indi- contamination was observed. On completion the trial pit was complected arisings.	s trackfilled wit
Phil Gran				(Marie				
						. 7		
	*:	*	(K) 14			. s	cale (approx) Logged By F	gure No.

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5K.42 58/155 90*EHOLE No 232 BIRMINGHAM - NOTTINGHAM ROUTE SCOTT WILSON KIRKPATRICK & PARTNERS A42 CASTLE DONINGTON NORTH 4672 2435 Consulting Engineers & Transportation Planners FIGURE AT MAIN SITE INVESTIGATION Field Work by Substitute Specials (Special) Liebze Specials (Special) Course Co CONTRACT 2 Sheet 1 # 1 Condingtos: setus E 1 1 1 1 1 E Grand Level: N.P. .. QD . **Laboratory Sesting By:** Service Carry Spire State Spire Spir A SAMPLE - 開記 DATE brees sifty Cart. (MATER 1941) , 14 19 100 1.10 HAN. inn 1.11 hilf out brown motifed light brown wilty Hilf with many meditate litherwitten. (Allows dams, a limit 187 ٠ 14. 13 14 PH1 bill red know and greg green financed althy field and erry sitty rise with every muletone and slipsyme likeword site. Superio mes. 3 cm (1/72) fore, slift in parts. Banks of oath and erry mesh meditions and allhabous takes of oath and erry mesh meditions and allhabous takes of oath ٠ 18 11 11 1,46 3,66 1,7938 5:13 * 11 (153) n. 1. M 1. G 上版 3.36 11.34 TIVITIE ÷ Till red trace actiful gray grams highly finnered tilty ELS with many achieve litheredists and estational banks of sout and only seek sifteires (atjourn host, 1200 (1/254) ivsli 14.81) (8.1) · 32 .10 Nort and very most and brown eligibly motified gray gross filtered MBG1396. |Spirits mast - DEW 1) 16.1811 (6.4 4.70 da 4,00 tro or HERRITH tra NAME AND ed of Shell and Sugar Sule. * Seating Bloom in 1815 - 96 HE H or Hambary and a second V ERS - New about to the bear El Care Catter Sereity

* Care Carter Sereity C. # 8 V Sanstorne Sensity Printerbed, Secreta B - Discovered ii B Seale

٠	British Geologic	d Surve	7					EN: MY WIDENING JUNCTION 21 TO 30 PRELIMINARY GL- CONTRACT 2	RC106
Mactrine: Hosto :				Diamet Omm ca	er sed to 3.60m		Level (mOD) 02.50	Client Highways Agency	Job Number WALDGOO
Cory Disc o	tels		Locatio		1000	Dates		Engineer	Sheet
dethod :					324588 N	10	101/2007	Amp	1/2
Desith (M)	TCR	SCR	RQD	m	Field Records	MOB)	Depth (Thickness)	Descriptions	Legend
100	PIT		0	0	-		(1.29)	Impaction Pit.	
1.20				-	-	61.10	1.20	Open Hole	
	01	4	0	0			(1.89)		
					1000	59.30	3.00	Jun-semilian	
.00	80	0	.0	0				Generally stiff to very stiff manishry very week mudatone wit depth; extremely closely floarmed red from locally mortled grey given stightly gravely CLAY. General is angular to subsampoter, fine to meritans littravelics of mudatone.	
								Between 3.00m and 4.50m; assumed zone of core loss.	-
					25/11/14/19/21				
1.50-4.38 1.50			-		SPT 26:778 Ne65				_
							(3.50)		
	00	0	.0	0			=		-=-
					25/26.50				
100-6.16			-		SPT 251/75 76/106		-	Between 6.00m and 6.50m; non-intact.	
			0	0					_
1.50			0	0		55.80	8.50	Generally very weak (variably very stiff clay to moderately weak) red brown calcareous MUDGTONE with rare very thin	
1.90			-	-	-			Between 5-200 and Lifting aspurped area. of care loss.	
	100	0	0	0	25/09.50		(1.60)	Recovered in very this beds as very clayey angular line to median gravet. Fractures: where evident subvertical.	
7.50-7.69 7.50					SPT 25'/78 89/117			entremely closely spaced, plenur to bregular, Between 7.50m and T.80m; non-intact.	
.00			0	0	Water strike(Tr et		Ē		
1.10			-	-	8.00m, no me after 20 mins	64.20	II.10	Generally moderately weak contably weak to moderately strong) sed brown calcareous MUDUTONE. Fractures:	
	97	47	21	0	25/60 0PT 26:///6			strong red brown calcureous MADDTTONE. Fracture: hystomic streemely closely to charge spaced, moveth, planer with well stay leff up to Street subvetical locally very closely spaced, smooth, planer; Request others in egular, apprecially unclose stille.	
9.00-9.09 9.00 9.20	(al. belo		0	٥	SONO P1		(2.90)	Estimate 9.00m and 9.90m; with closely spaced very thin bads of moderately weak grey green sitiations; fractures are horizontal, very closely to closely transmit, planar; see subvertical, planar fractures.	
9:00			-		-				
Remarks								Scale (approx	Females
								1:50	Ti.

	Borehei Rumber RC106	Site MY WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2					7	d Surve	British Geologica	
Description Location	Job Mundrer WALOGOO	Client								
10.0 10.0	Sheet 2/2	-11-11-11-11-11-11-11-11-11-11-11-11-11	11/2007	Dates 10	24589 N				wite .	
0.50 0.50	Legend	Description	Depith (III) That shees	Legal (HiOD)	Field Records	n	RQD	SCR	TCR	Degitte (Hij
1.50			(2.80)			0	54	36	100	
1.50					0PT 261/75	D	. 0			0.50 0.50-10.68
1.50		SILTSTORE with occasional rounded this gravel size dissultation vegs. Fractions: subhinizental, very streety to	10.90	51.40	P2	0	0			0.85 0.90
100 12.22 0 0 0 12.75 01 50 24 0 Sample / Texts Shall Very Very		medical spaces, plane; resident personary stragular.					-0			1.45
2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75			(1.95)			0	53	75	67	
91 50 24 0 Sample / Texts Capital of the Capital o				18	01	0	Q			2.00-12.32
18/01/2007: 47.10 Complete at #6.00m.		Week to moderately weak red brown locally motified grey green calcaseous MUDSTCRE with medium spaced this hads of moderately strong light grey green stituture. Fractures to instructural plant of moderately strong calculations to closely strong strong classes.	12.85	49.45	P4	0	24	50.	91	2.75 2.85
18/01/2007: 47:30 Complete at #6.00m		occasionally undutating, subvertical, locally very closely spaced, planar to megidar, others irregular, apparently random stake.				Water Bepth	Parity	Tests	Sample	1.50
18/01/2007. Complete at 16.00ms			(2.15)						PS.	1.05
18/01/Q007. Complete at 16.00ms			16.00	47.30						
		Complete at ±5.00m.								
					1-1				million	
Gcale (approx)					1000				pilten	
		(approx)	_							lemarks
1:50 Figure 1	Ti.	1:50 Figure)								

BOREHOLE LOG

EMG Phase 2 SEGRO BH0² Contract Ref: Start: 05.09.22 Ground Level (m AOD): National Grid Co-ordinate: Sheet: 765514 End: 13.09.22 89.22 E:446551.3 N:325384.8 1 of 16	Contract:		Client:		Borehole	э:		
	EMG Pha	se 2		SEGRO			В	H01
765514 End: 13.09.22 89.22 E:446551.3 N:325384.8 1 of 16	Contract Ref:	Start: 05.09.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:			
	765514	End: 13.09.22	89.22	E:446551.3 N:325384.8		1	of	16

	(65	014	End:	13.09	1.22		C	9.22		E:446551.3 N:325384.8	1	of 16
		Sample	s & Testing	N	1echa	anical	Log	s <u>is</u> ⊗ ⊤ io	_		Depth	Material
Depth (m)	No		Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details Backfill & Instru- mentation	Water	Description of Strata	(Thick ness)	
0.10-0.10 0.10-0.30	1 2	D B			, ,	•	`			TOPSOIL	(0.35)	\(\frac{1}{2}\), \(\frac{1}\), \(\frac{1}{2}\), \(\frac{1}\), \(\frac{1}{2
0.50-0.50 0.50-0.50 0.50-1.00	101 3 4	ES D B	1xT+1xJ+1xV							Very stiff reddish brown, mottled grey, slightly sandy slightly gravelly CLAY. Gravel is subangular fine to coarse mudstone lithorelics. (MERCIA MUDSTONE GROUP)	-	
1.00-1.00 1.10-1.10 1.20-1.50	102 5 6	ES D UT _(UT100)	1xT+1xJ+1xV 150 blows 83% recovery								- - -	
1.50-1.70	7	D									-	
1.70-1.70	8	D									-	
2.00-2.45 2.00-2.45 2.00-2.45	10 11	SPT DSPT B	N=36								(4.10)	
2.70	12	D									- - -	
3.00-3.45 3.00-3.45 3.00-3.45	15 16	SPT DSPT B	N=51								- - - -	
3.70	17	D									- - -	
4.00-4.45 4.00-4.45	19	SPT DSPT	N=66							4.00-4.45m: becoming orangish in colour	- - -	
_					_	_					- - 4.45	

	Boring Pr	ogress and	Water Ob	servations		Chise	ling / Slow	Progress	Conoral	Domorl	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remair	(S
05/09/22 06/09/22 06/09/22 13/09/22 13/09/22 14/09/22	09:00 17:00 08:30	2.50 2.50 4.45 4.45 11.25 11.25	2.50 2.50 3.00 None 4.45 4.45	200 200 200 200 200 146 146	Dry Dry - 10.90 5.90	3.80	4.00	00:30	Position cleared using C Hand dug inspection pit Drilled using 200mm dia SPT hammers AR3104- AR3830-2021 (<i>E_r</i> = 67.0	to 1.20m. meter tools a 2022 (<i>E</i> _r = 6	and casing.
14/09/22	17:00	30.75	4.45	146	28.15				All dimensions in metres	Scale:	1:25
Method Used:	Cable P	ction pit +	Plan Use		3000 Mar			nny Hutt + am Carter	Logged JAlton + By: RStan	Checked By:	AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Soils Lid, Branch Office - Castleford: The Pottery Street, Castleford, West Yorkshire, WF10 1\overline{10}. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. | 11/12/22 - 10:29 | TC9 |

Rotary Cored

BOREHOLE LOG

Contract:							Clie	nt:				Boreho	ole:		
		EMG	Phase 2								SEGRO			вн	1 01
Contract Re	ef:		Start:	05.09	9.22	Grour	nd Lev	/el (r	n AOD):	T	National Grid Co-ordinate:	Sheet:			
•	765	514	End:	13.09	9.22		8	9.2	2		E:446551.3 N:325384.8		2	of	16
		Samples	& Testing	ı	Mech	anical L	.og	σ :	<u>v</u> ≪ 7 'E	<u></u>			Depth	Ма	ateria
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%) (If mm) į	Flush Return	<u>ه ا ۵</u>	Water	Description of Strata		(Thick ness)		aphi gend
4.45-5.25 (0:03)				88	78 78	44		Air+Mist (Brown)			Extremely weak to weak reddish MUDSTONE. Occasional grey possiltstone. GRADE III. Bedding fractures: Closely spaced undulating, rough, with abundant staining. Rare reddish brown silty class.	ckets of 0-10°, t black	(0.80)		
5.00-5.12	20	С			L.X.	L L					(MERCIA MUDSTONE GROUP) 4.45-4.55m: AZCL.(stratum from 4.45m from previous sheet) 1 4.55-4.64m: Grey siltstone.	Г	5.25		
5.25-6.75 (0:06) 5.80-5.90	21	D		85	21	0		Air+Mist (Brown)			4.73-4.75m: 4°, undulating, abundant black staining, clay infill > 4.85-4.87m: 9° undulating occasional black stained infill sil > 3mm 4.96-4.99m: 8°, undulating, > 3mm infill clay. Grey silstone 5.10-5.11m: 3°, undulating, > 3mm infill clay 5.15-5.17m: Grey siltstone of the siltstone of	Bmm. rough ty clay rough, rough, with 5°, ay infill. locally casional	[- - - - - - - - - - - - - - - - - - -		
6.75-8.25 (0:04) 6.75-7.20		SPT	N=91	*	X	*		*			occasional to abundant black stainin Fracture set 2: Widely spaced, undulating, rough, occasional staining. (MERCIA MUDSTONE GROUP)5.25-5.43m: AZCL5.43-5.47m: Fine to medium	g. 60-80°, black	6.90		
7.40-7.60	22	С		90	83	83		Air+Mist (Brown)			broken sandstone 5.49-5.68m: Thinly laminate siltstone 5.68-5.80m: Abundant black incipient fractures 6.01-6.02m, 6.46-6.48t 6.60-6.75m: Grey siltstone. Extremely weak to weak reddish	stained m and	- - -		

<u> </u>		Boring Pro	ogress and	Water C	bservations	3	Chisell	ing / Slow F	Progress	General	Domor	ko	
asiaciona	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)		From	То	Duration (hh:mm)	General	Nemai	NS	
5 - 5													
ב													
5										All dimensions in metres	Scale:	1:25	
)	Method Used:		tion pit +	Pla • Us		lo 3000 Mai acchio GE0			ny Hutt + m Carter	Logged JAlton + By: RStan	Checked By:		AGS

Air+Mist (Brown)

100 93 93

undulating, rough with occasional black staining. Rare clay infill. Occasional to abundant yellow staining.

(MERCIA MUDSTONE GROUP)

... 8.25-8.35m: Drilling disturbed.

. . . 8.62-8.70m: 8° undulating rough occasional black staining with clay infill

>3mm.

Description on next sheet

(3.58)

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PnVersion: v8_07_1 Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Soils Lid, Branch Office - Castleford. The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1\overline{10.16.501565}, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. | 11/12/22 - 10:29 | TC9 |

8.25-9.75 (0:04)

8.83-8.94

23

С



Contract:								Clie	ent:					Boreho	le:	
		EMO	3 Phas	e 2								SEGR	0			BH
Contract Re	f:		S	Start:	05.0	9.22	Grou	nd Le	vel (m	AOD):	1	National Gri	d Co-ordinate:	Sheet:		
	765	514	E	End:	13.0	9.22		8	9.22			E:4465	551.3 N:325384.8		3	of 1
Danth		Sample	s & Testin	g		Mech	anical	Log	ns ails	#ii ⊗	ē				Depth	
Depth (m)	No	Туре	Resu	lts	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backf Instr menta	Water	0	Description of Strata		(Thick ness)	Gra Leg
- - - - - - 9.75-11.25 - (0:05)					100	93	93		Air+Mist (Brown)			abundant Extremely MUDSTC Bedding f undulating staining, abundant (MERCIA (stratum sheet)9.26-	.77-8.79m: 5° undulating black stained >3mm silty of weak to weak reddish DNE. CIRIA GRADE III. ractures: Widely spaced, 0g, rough with occasiona Rare clay infill. Occasional yellow staining. MUDSTONE GROUP) copied from 6.90m from p. 9.29m: Weak grey siltstone 9.82m: Drilling disturbed.	blay. brown to 10°, I black conal to	- - - - - - -	
- 10.28-10.48 - -	3 24	С			95	95	95		Air+Mist (Brown)			Evtremely	v weak reddish brown th	ainly to	10.48	
10.70-10.96 -	5 25	С							Air. (Br			thickly la interbedd Bedding spaced, occasiona (MERCIA	aminated MUDSTONE. ed with weak grey siltstone fractures: Closely to subhorizontal, planar, und al to abundant black stainin MUDSTONE GROUP) 04-11.14m: Interbedded w	Locally . widely lulating, g.	- - - -	
11.25-12.75 (0:06) 11.38-11.70		С			*	X	X		X			siltstone.	5-11.36m: Gravelly silty cla	• •	- - -	
					100	65	54		Air+Mist — (Brown)			11.8 laminated siltstone.	I-11.73m: Grey siltstone. 0-11.96m: Extremely weak mudstone, interbedded wil I-11.96m: Clay		- - - -	
												mudstone	12.28-12.46m: Siltston : 5-12.75m: NI.	e and	-	
- - 12.75-14.25 . (0:07)	5				*	X	 		*						- -	
- - -					100	95	89		Air+Mist (Brown)						-	
Вс	oring	Progress	s and Wat	er Ob	servat	ions			Chise	ling / Slo	DW	Progress	Comerci	Done	vel ce	
Date	Time	Bore De		sing pth	Boreh Diam (mr	eter	Wate Depth		From	То)	Duration (hh:mm)	General		ai KS	
													All dimensions in metres	Scale:	1:2	

<u>D</u>		Boring Pro	ogress and	Water O	oservations		Chisell	ing / Slow F	Progress	General Remarks				
Sileioid	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remai	KS		
al Solls Lta, Diancii Oilice - Ca			·	•	()	•				All dimensions in metres	Scale:	1:25		
II UCIUI e	Method Inspection pit + Plant Dando 3000 Mar Used: Cable Percussion + Used: Comacchio GEC								ny Hutt + m Carter	Logged JAlton + By: RStan	Checked By:		AGS	

BOREHOLE LOG

One											BOREH	UL		.UG
Contract:							Cli	ent:				Boreho	ole:	
		EMG	Phase 2					SEGRO						BH01
Contract Ref	:		Start:	05.09	9.22	Grou	nd Le	evel (m AOD):	١	National Grid Co-ordinate:	Sheet:		
7	65	514	End:					39.22			E:446551.3 N:325384.8		4	of 16
Б. "		Samples	& Testing	ı	Mecha	anical	Log	Sim Sim -n	er Iton	,			Depth	Material
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	lf (mm)	Flush Returns & Details Backfill &	Water		Description of Strata		(Thick ness)	Graphic Legend
				100	95	89		Air+Mist (Brown)			Extremely weak reddish brown th thickly laminated MUDSTONE. interbedded with weak grey siltstone. Bedding fractures: Closely to spaced, subhorizontal, planar, undu occasional to abundant black staining (MERCIA MUDSTONE GROUP) (stratum copied from 10.48m from presheet)	Locally widely ulating, g.	(6.77)	
14.25-15.75 (0:04) 14.26-14.50	27	С			A	A					13.50-13.53m: Grey siltstone. 13.53-13.55m: Sandstone. 13.55-13.57m: 4°, clay infill. 13.57m: Thinly interlaminate	ed with	- - -	
- 14.56-14.69 - - -	28	С		87	75	75		Air+Mist (Brown)			siltstone (<10mm) 13.86-13.89m: 11°, incipient, rough, abundant black staining 13.86-13.90m: Siltstone 13.89-14.07m: 88°, incipient, rough, occasional black staining 14.25-14.45m: AZCL.	planar,	- - -	
15.38-15.47	29	D									14.71-14.72m: 5°, clay undulating, rough 14.87-14.89m: 9°, clay undulating, rough 15.38-15.46m: Clay 15.38-15.59m: Locally intert with reddish clay 15.59-15.64m and 15.70-15.75r	infill,	- - - -	
- 15.75 - 17.25 ₋ (0:04) -					A	A					15.75-15.83m: Grey siltstone 15.83-15.85m: Planar, rougl infill 15.90-16.08m: 82°, undulating, abundant black staining, incipient 15.95-16.23: Clay and mudstone	rough,	- - -	
_ 16.23-16.34 - - - - -	30	С		100	86	71		Air+Mist (Brown)			16.35-16.37: Clay and mudstone 16.38-16.59m: 63°, undulating, occasional black staining, incipient. 16.45-16.79: Clay and mudstone 16.51-16.65m: 66° undulating occasional black staining incipient.	e. rough,	- - - -	
-					 - y			•			16.89-16.95m: Clay, siltstor mudstone 17.05-17.16m: 83° undulating abundant black staining incipient.	g ough	- - - - 17.25	
- 17.25-18.75 _ (0:05) - - - - -				100	82	73		Air+Mist (Brown)			Extremely weak to weak unt MUDSTONE. Occasional grey si beds (<90mm). GRADE II. (MERCIA MUDSTONE GROUP) 17.25-17.31m: NI 17.51-17.57m: NI. Rare black son discontinuity surfaces 17.70-17.73m: NI. Thinly lamina Description on next sheet	Itstone taining	-	

<u> </u>		Boring Pro	ogress and	Water Ol	oservations		Chisell	ing / Slow F	rogress	General Remarks				
isilaloid.	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	———	KS .		
IS Ltd, branch Oilice - Co														
al So										All dimensions in metres	Scale:	1:25		
Tuctur	Method Inspection pit + Plant Used: Cable Percussion + Plant Used: Comacchio GE								ny Hutt + m Carter	Logged JAlton + By: RStan	Checked By:		AGS	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07_1 Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 11\overline 11\overline 10977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:29 | TC9 |

Contract:							Clien	ıt:				Boreho	le:	
		EMG F	Phase 2								SEGRO			BH01
Contract Ref	:		Start:	05.09	9.22	Grou	nd Lev	el (r	n AOD):		National Grid Co-ordinate:	Sheet:		
7	655	514	End:	13.09	9.22		89	9.2	2		E:446551.3 N:325384.8		5	of 16
		Samples &	Testing	N	/lecha	anical I	Log	σ :	<u>s</u>	<u>~</u>			Depth	Materia
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	lf (mm) ដី	Return	& Details Backfill & Instru- mentation	Water	Description of Strata		(Thick ness)	Graphi Legen
17.93-18.18 18.75-20.25 (0:04)		C		100	82	73		Air+Mist (Brown)			abundant black staining and occayellow staining. Extremely weak to weak unt MUDSTONE. Occasional grey si beds (<90mm). GRADE II. (MERCIA MUDSTONE GROUP) 17.25-17.31m: NI. (stratum copie 17.25m from previous sheet) 18.18-18.22m: 15° planar occasional black staining 18.20-8.30m: 60° undulating abundant black staining.	pedded iltstone edfrom rough	- - - - - - - - - - - - - - - - - - -	
19.50-19.82	32	С		100	100	100		Air+Mist (Brown)			18.30-18.36m: Clay 18.42-18.43m: 7° planar occasional black staining 18.42-18.50m: 70° undulating abundant black staining 18.50-18.56m: 35° planar abundant black staining 18.67-18.73m: Grey siltstone 18.78-19.05m: 87° planar roug black staining incipient 19.50-19.52m: Grey siltstone 19.62-19.67m: Grey siltstone 19.96-20.03m: 52° undulating occasional black staining incipient.	rough rough gh rare	- - - - - -	
20.25-21.75 (0:06)				100	100	100		Air+Mist (Brown)			Extremely weak reddish brown, rigrey, unbedded MUDSTONE. Occito frequent, closely spaced beds distillatione. (MERCIA MUDSTONE GROUP) 20.25-20.51m: Medium stron siltstone 20.80-21.05m: Thinly and thickly laminate.	asional of grey g grey	- 20.25 - - - - - -	
21.14-21.37	33	С						₹ 	2				-	
21.37-21.58	34	С									21.37-21.80m: Medium stron siltstone.	g grey	-	
21.75-23.25 (0:05)				X	+	*		*			21.64-21.70m: 23°, undulating, >3mm clay infill, occasional black sta 21.80-21.92m: Medium stron siltstone.	ining.	(3.23)	
				100	100	100		Air+Mist (Brown)					- -	

<u> </u>		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	Progress	General Remarks				
asileioid	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remai	<u> </u>		
JIIIce - Co														
Dalle														
Olls Fig.											Γ			
ō o										All dimensions in metres	Scale:	1:25		
ILUCIA	Method Used:								ny Hutt + m Carter	Logged JAlton + By: RStan	Checked By:		AGS	



BOREHOLE LOG

72													DOILLI			
Contract:								Cli	ent:					Boreho	le:	
	EMG Phase 2													BH01		
Contract Ref	f:			Start:	05.0	09.22	Grou	und L	evel	(m A	OD):	T	National Grid Co-ordinate:	Sheet:		
7	765514 End: 13.09.22							8	89.2	22			E:446551.3 N:325384.8		6	of 16
		Sample	s & Tes	ting	Mechanical I				.og <u>∞ ≅</u> ∞ <u>+ .io</u>			Ţ.			Depth	Material
Depth (m)	No	Туре	Res	sults	TCI (%	R SCF) (%)	RQD (%)	lf (mm)	Flush	& Deta	Instrumentat	Wate	Description of Strata		(Thick ness)	Graphic Legend
22.51-22.76 35 C											Extremely weak reddish brown, grey, unbedded MUDSTONE. Occ	asional	_			

Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush	& Detai Backfill Instru mentati	Wate	Description of Strata	(Thick ness)	Graphic Legend
22.51-22.76	35	С		100	100			Air+Mist (Brown)			Extremely weak reddish brown, mottled grey, unbedded MUDSTONE. Occasional to frequent, closely spaced beds of grey siltstone. (MERCIA MUDSTONE GROUP) 20.25-20.51m: Medium strong grey siltstone.(stratum copied from 20.25m from previous sheet)	-	
23.25-24.75 (0:07)	5				A	A		Å				23.48	
ng	2 36	С		100	100	100		Air+Mist (Brown)			Weak to medium strong reddish brown, mottled grey, fine and medium grained silty SANDSTONE. Frequent beds of grey siltstone. (MERCIA MUDSTONE GROUP)	(0.64)	
9, Web: www.solls.co.u											Weak reddish brown, mottled grey, unbedded MUDSTONE. Occasional to frequent beds of grey siltstone. (MERCIA MUDSTONE GROUP)	-	
- 24.75-26.25 - 24.75-26.25 - (0:06) - 24.75-24.98		С		*	*	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	_	X				- - -	
West Yorkshire, WF10 1NJ. Tel: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk, 11/12/22 - 10:29 TC9 TC9				100	100	100		Air+Mist (Brown)			25.39-25.46m: 39° undulating rough occasionally yellow staining incipient fracture 25.40-25.46m: 26° undulating rough occasionally yellow staining incipient fracture 25.44-25.49m: 29° undulating rough occasionally yellow stained incipient fracture.	-	
otterles, Potterl Street, Castleford, W (0:00)	5			100	100	100		Air+Mist (Brown)			26.41-26.46m: Medium strong grey siltstone 26.67-26.72m: Medium strong grey siltstone.	-	

	Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow P	rogress	General Remarks				
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remai	KS .		
,		Ворит	Ворит	(11111)	Ворит								
									All dimensions in metres	Scale:	1:25		
Method Used:								ny Hutt + m Carter	Logged JAlton + By: RStan	Checked By:		AGS	

GINT_LIBRARY V10_01.GLB LibVersion: v8_07_001 PrIVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514 EAST_MIDLAND_AIRPORT GPJ - v10_01. Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552256. Fax: 01977-552299 v



BOREHOLE LOG

Contract:				C	Client:			Boreho	le:		
	EMG Pha	se 2				,	SEGRO			В	H01
Contract Ref	: ·	Start:	05.09.22	Ground	Level (m AOD):	Nat	tional Grid Co-ordinate:	Sheet:			
7	'65514	End:	13.09.22		89.22	E	E:446551.3 N:325384.8		7	of	16
	Camanias 9 Tasi	N4	ممالممند								

		Commis -	& Testing		1001-	onica!	Loc			, ,					
Depth		Samples	s & resung			anical RQD (%)	Log	Li su	etails	stru- ntation	Water		Description of Strata	Depth (Thick	Mat Gra
(m)	No	Туре	Results	(%)	(%)	(%)	(mm)	Flus	S D	ne n	>			ness)	Leg
. 27.23-27.49	38	С		100	100			Air+Mist				unbedded frequent to (MERCIA (stratum of sheet) 27.13 grey siltst 2	7.25-27.30m: 21° planar rough	(6.63)	
27.75-29.25 (0:07) -				Ì	Å			/list	vn)			MUDSTO 27.8 black stai	al yellow staining incipient. 26-27.48m: Reddish brown sandy DNE. 3-27.92m: 20° planar rough. Rare ning incipient. 3-28.23m: Weak grey siltstone.	-	
28.61-29.00	39	С		100	100	100		Air+Mist	(Brow					-	
29.25-30.75 (0:05)					*	X			<u>, </u>			29.2 grey siltst	8-29.78m: Interbedded with weak one.	-	
29.76-29.98	40	С		97	97	97		Air+Mist	(Brown)			siltstone.	26-30.32m: Medium strong grey 41-30.49m: 51° undulating rough ally stained yellow, incipient.	30.75	
- -												Borehole	terminated at 30.75m depth.	-	
Во	ring F	Progress	and Water Ob	servati	ions			Ch	iselli	ng / S	Slow F	Progress	Conoral Dam	orke	
Date	Time	Boreh	0	Boreh Diame (mn	eter	Wate Dept		Fro	om	Т	о	Duration (hh:mm)	General Rema	אוגא	
		•	F	χ		<u> </u>									
Math			<u> </u>			000-	<u> </u>		1.				All dimensions in metres Scale:	1:25	5 =
Method		ection p	it + Plan ion + Used			3000 l chio (Orilled By:		nny Hutt + m Carter	Logged JAlton + Check By: RStan By:	ed	A

		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	Progress	General	Domorl	10	
a serial of a	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	15	
5-53110													
,													
2 2 2										All dimensions in metres	Scale:	1:25	
)	Method Used:	Cable Pe	tion pit +	Plan Used		3000 Mar cchio GEC			ny Hutt + m Carter	Logged JAlton + By: RStan	Checked By:		AGS

BOREHOLE LOG

EMG Phase 2 Contract Ref: Start: 06.09.22 Ground Level (m AOD): National Grid Co-ordinate: Sheet:	
	BH02
705544 - 450000 77.00 5.440044.0 N-204000.5	
765514 End: 15.09.22 77.03 E:446011.8 N:324862.5 1	of 12

			Sample	s & Testing	ľ	Mecha	anical	Log	s = s	∞ -	.E	<u></u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfi	mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
	-												TOPSOIL	0.20	17 · 31 · 17 · 31 · 17
1 TC9	0.30	1 2	D B	4 T.4 1.4 V							38080		Firm to stiff brown slightly sandy gravelly CLAY. Low boulder content. Gravel is angular to rounded coarse of sandstone and mudstone.	0.40	×.×.×. ×.×.×.×. ×.×.×.×.×.×.×.×.×.×.×.
11/12/22 - 10:29	0.50	3 4	ES D B	1xT+1xJ+1xV							0808080		Very stiff dark brown slightly sandy slightly gravelly clayey SILT. Sand is fine and coarse. Gravel is subangular and subrounded quartzite, sandstone and siltstone.	(0.60)	× × × × × × × × × × × × × × × × × × ×
co.uk.	1.00	102	ES	1xT+1xJ+1xV							S		Very stiff reddish brown slightly sandy	1.00	· <u> </u>
:mail: ask@solls	1.20 1.20-1.55	5 6	D UT _(UT100)	150 blows 100% recovery							• • • • • • • • • • • • • • • • • • • •		slightly gravelly CLAY. Sand is fine and medium and mudstone derived. Gravel is angular to subangular fine and medium extremely weak mudstone lithorelics. (MERCIA MUDSTONE GROUP)	- - -	
ю.uk, Е	· · 1.55-1.65	7	D										1.00-4.15m: frequent thin laminae (<2mm) of siltstone.	-	
v.soils.c	1.70	8	D								• • • • • • • • • • • • • • • • • • • •			-	
otteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solls.co.uk, Email: ask@soils.co.uk. 11/12/22 - 10:29 TC9	2.00-2.45 2.00-2.45 2.00-2.45	10 11	SPT DSPT B	N=35						* * * * * * * * * * * * * * * * * * * *				(3.00)	
01977-552255, F	2.70	12	D								***			- - -	
J. Tel: (3.00-3.36		SPT	6,8/16,19,15							**				
orkshire, WF10 1N	3.00-3.36	14 15	DSPT B	for 60mm						••••••				- - -	
istleford, West Yo	3.70-3.70	16	D								***			- - -	
tery Street, Ca	4.00-5.00 (0:07) 4.00-4.42		SPT	3,8/12,14,14,10	45				Air+Mist (Brown)		***		AZCL. (MERCIA MUDSTONE GROUP)	(0.55)	AZCL
tteries, Pot	4.00-4.42	18	DSPT	for 40mm	40				Air- (Br		•••			,	, , ,

		Boring Pro	ogress and	Water (Observations		Chise	lling / Slow F	rogress	General	Domor	ko
	Date	Time	Borehole Depth	Casino Depth	/ Diameter	Water Depth	From	То	Duration (hh:mm)	Generali	Reman	KS
Š -	06/09/22	17:49	3.40	3.00	200	Dry	3.00	3.40	00:30	Position cleared using Ca Hand dug inspection pit t		ny.
= 1	07/09/22 07/09/22	08:06 11:00	3.40 4.00	3.00 2.00	200 200	Dry	3.40	4.00	00:45	3. Drilled using 200mm dial 4. SPT hammers AR3104-2	meter tools	
= 1	16/09/22	08:50	8.00	4.00	146	6.40				AR3830-2021 (<i>E_r</i> = 67.0		14.00 70),
-	16/09/22	15:25 21.50		4.00 None	146 200	20.60 3.50						
- 1	15/09/22	/09/22 14:00 4.00 /09/22 17:00 8.00		4.00	146	7.65						
5										All dimensions in metres	Scale:	1:25
)	Method Inspection pit + Plant Dando 30 Used: Cable Percussion + Used: Comacchio C								ny Hutt + m Carter	Logged DNeylon + By: JAlton	Checked By:	AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Soils Lid, Branch Office - Castleford: The Pottery Street, Castleford, West Yorkshire, WF10 1\overline{10}. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. | 11/12/22 - 10:29 | TC9 |

Rotary Cored



BOREHOLE LOG

Contrac	ct:				Client:		Boreho	ole:	
	EMG Ph	ase 2				SEGRO			BH02
Contrac	ct Ref:	Start:	06.09.22	Ground	d Level (m AOD):	National Grid Co-ordinate:	Sheet:		
	765514	End:	15.09.22		77.03	E:446011.8 N:324862.5		2	of 12
	Samples & Testing			anical Lo	oa . ν ∞ . 5 .			Donth	Material

	655	14	End:	15.09	.22		77	.03	3		E:446011.8 N:324862.5	2	of 12
		Samples	s & Testing	M	echa	nical Lo	og	s :	2 ≪ 1 €			Depth	Materia
Depth (m)	No	Туре	Results	TCR S	SCR (%)	RQD (%) (m	lf 등	Return	Backfill & Instru-mentation		Description of Strata	(Thick ness)	Graph Legen
4.90 5.00-6.50 (0:07)	19	D		45	0	0	A STANTON	All Hillist (Brown)		•	Firm to stiff reddish brown slightly sandy gravelly CLAY with rare fine to medium gravel size pockets of silt. Sand is fine to coarse and mudstone derived. Gravel is angular to subangular fine to medium mudstone lithorelics. GRADE III. (MERCIA MUDSTONE GROUP) 5.00-5.30m: AZCL.	4.55	
				80	0	0	A iv. i M Mine	(Brown)				(2.70)	
6.30 6.50-7.25 (0:03) 6.50-6.95	20	D SPT	N=41	*	X	*		T) (II			6.50-6.90m: AZCL.	-	
7.20 7.25-8.00	21	D		47	0	0	, V	All HMIST (Brown)			Extremely weak reddish brown	- - - - 7.25	
(0:03)	22	С		109	109	85	A CIVAL	(Brown)			MUDSTONE. GRADE II. Fractures: Closely spaced, randomly orientated, tight, black staining on surfaces. (MERCIA MUDSTONE GROUP)	(1.00)	
8.00-9.50 (0:00)				97	15	0		(Brown)			Extremely weak reddish brown MUDSTONE thinly interbedded with very weak greenish grey siltstone and beds of reddish brown thinly laminated clay. GRADE II. (MERCIA MUDSTONE GROUP)	- 8.25 - -	
8.90	23	D									8.40-8.42m: Greenish grey siltstone. 8.75-9.15m: NI, recovered as angular to subrounded fine to medium gravel of	-	

2		Boring Pro	ogress and	Water Ob			Chisell	ing / Slow F	rogress	General	Domarl	/ C	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	TCIIIAII	~	
-													
										All dimensions in metres	Scale:	1:25	
	Method Used:	Cable Pe	tion pit + ercussion -	Plan Used		ando 3000 cchio GEC			ny Hutt + m Carter	Logged DNeylon + By: JAlton	Checked By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web.



BOREHOLE LOG

Contract:					Client:		Boreho	ole:		
	EMG Pha	se 2				SEGRO			ВН	102
Contract Ref	•	Start:	06.09.22	Ground	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
7	65514	End:	15.09.22		77.03	E:446011.8 N:324862.5		3	of	12
	Samples & Testing				og ω & . 5			Donth	Ma	torial

5 "		Samples	s & Testing	N	Mecha	anical	Log	S III S	er tion		Depth	Materia
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details Backfill &	mentatio Water	Description of Strata	(Thick ness)	Graphi Legen
9.50-11.00 (0:00)				97	15	0		(Brown)		mudstone. Extremely weak reddish brown MUDSTONE thinly interbedded with very weak greenish grey siltstone and beds of reddish brown thinly laminated clay. GRADE II. (MERCIA MUDSTONE GROUP) (stratum copied from 8.25m from previous sheet) 9.50-10.10m: No siltstone laminae / beds.	(2.05) - - - - -	
10.60	24	D		97	45	20		(Brown)		10.10-10.15m: NI 10.15m: Siltstone. Extremely weak reddish brown MUDSTONE. GRADE II. Fractures: Very closely spaced, randomly orientated, smooth, planar, undulating, black staining on surfaces. (MERCIA MUDSTONE GROUP) 10.30-10.80m: Frequent fine to coarse		
11.00-12.50 (0:00)	0			X	*	X	-	X		gravel size pockets of greenish grey siltstone 10.30-13.55m: Heavily fissured with sample breaking easily when handled 11.20-12.00m: Occasional fine to	- - -	
11.50-11.75	5 25	С		100	67	20		(Brown)		medium gravel size pockets of greenish grey siltstone.	- - - - -	
12.50-14.00 (0:00)	0			*	X	X				12.25-12.30m: Reddish brown very sandy CLAY.	- (3.85) - - - -	
				100	80	40		Brown)			- - - -	

Γ		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	rogress	General	Domorl	lc0	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	NS	
			Берит	Берит	(111111)	Берит				-			
											1		
										All dimensions in metres	Scale:	1:25	
	Method							Drilled Jon	ny Hutt +	Logged DNeylon +	Checked		
Įι	Jsed:		ercussion -	• Used	d: Coma	cchio GEC	0 601	By: Sa ı	m Carter	By: JAlton	Ву:		AGS
-		Rota	v Cored				-				-		

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web

BOREHOLE LOG

<u> </u>							10"				. ·		OG
Contract:			Dha 0				Cli	ient:		eceno.	Boreho		DI IOO
Contract Def		EIVIG	Phase 2	00.0		Crau	ا امد	evial (m. AOD):		SEGRO	Chast		BH02
Contract Ref						Grou		evel (m AOD):	ľ	National Grid Co-ordinate:	Sheet:		40
7	655	514	End:	15.09	9.22			77.03		E:446011.8 N:324862.5		4	of 12
Depth			& Testing	TCR	SCR	anical RQD	Log If	Flush Returns & Details Backfill & Instru- mentation	vater	Description of Strata		Depth (Thick	Materia Graphic
(m)	No	Туре	Results	(%)	(%)	(%)	(mm)		>	13.55-13.70m: Coarse grave	el size	ness)	Legend
13.70-13.85	26	С		100	80	40		(Brown)		pockets and lenses of greenish siltstone.	ı grey	-	
14.00-15.50 (0:00)				*	*	*				14.00-14.15m: Becoming laminated.	thinly	- 14.15	
										Extremely weak reddish MUDSTONE. GRADE II. (MERCIA MUDSTONE GROUP) 14.35-14.45m: Recovered as gravel.	brown	-	
14.75-15.20	27	С		90	63	54		(Brown) ⁻				(1.15)	
-												- - -	
										Extremely weak reddish brown	thinly	15.30	
15.50-17.00 (0:00) 15.65-15.85	28	С		*	*	*				laminated MUDSTONE thinly intert with extremely weak greenish grey si with occasional clay bands laminae/bedding. (MERCIA MUDSTONE GROUP)	edded Itstone along	(0.70)	
-										15.90m: Thickly laminated siltsto Very weak reddish brown MUDS		16.00	
				97	37	23		(Brown) -		GRADE II. Fractures: Closely spaced, rar orientated, tight. (MERCIA MUDSTONE GROUP)	ndomly	_	
												(1.15)	
												-	
17.00-18.50 (0:00)				 	 	X				Extremely weak reddish	brown	- 17.15	
				97	59	30		(Brown)		MUDSTÓNE with fine to coarse sized pockets and lenses (<10m greenish grey siltstone. GRADE II. Bedding fractures: Very closely s	gravel nm) of paced.	(0.40) - 17.55	
17.60-17.70	29	С						(B)		rough, planar, infilled with reddish clay. (MERCIA MUDSTONE GROUP) 17.20-17.25m: Recovered as	brown	_	

		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	rogress	General	Domor	l.o	
[Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remai	KS	
,													
										All dimensions in metres	Scale:	1:25	
	ethod sed:	Cable Pe	tion pit + ercussion -	Plan Used		ando 3000 cchio GEC	I		ny Hutt + m Carter	Logged DNeylon + By: JAlton	Checked By:		AGS



BOREHOLE LOG

Contract:							Cli	ent:				Boreho		
		EMG	Phase 2	2							SEGRO			BH02
Contract Ref			Star	t: 06. 0	09.22	Grou	nd Le	evel (m	AOD):	1	National Grid Co-ordinate:	Sheet:		
7	655	514	End	: 15.0	09.22		7	77.03	}		E:446011.8 N:324862.5		5	of 12
Depth			& Testing	TCI	Mech R SCR	anical RQD	Log If	ush turns Details	Backfill & Instru-	Water	Description of Strata		Depth (Thick	Materia Graphic
(m) 18.50-20.00 (0:00)		Type	Results	97	59	30	<u>((mm</u>)	(Brown) (Brown) Re	<u>B</u>		Very weak reddish brown MUDS GRADE II. Fractures: Closely spaced, ra orientated, smooth, undulating, staining on surfaces. (MERCIA MUDSTONE GROUP) (stratum copied from 17.55m from p. sheet) 18.15-18.20m: Very clayey an subangular fine gravel of mudstone 18.35-18.40m: Extremely greenish grey siltstone 18.95-19.00m: Stiff greenish gr 19.00-19.10m: Firm laminated brown gravelly CLAY. Gravel is ang mudstone lithorelicts.	revious gular to weak ey silt.	ness)	Legend
19.55-19.65	30	С									19.45-19.55m: Weak greeni fine grained sandstone.	sh grey	(3.95)	
20.00-21.50 (0:00)				*	 	X		*			19.95-20.00m: Greenish grey s	Itstone.	- - -	
21.00-21.10	31	С		900	73	55		(Brown)			20.50-20.55m: Coarse grapockets of greenish grey siltstone.	vel size	-	
				₩	₩	₩		V			Cable percussion borehole termin 21.50m depth.	ated at	21.50	

	Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	rogress	General	Domor	ko	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remai	KS	
3												
i l												
5									All dimensions in metres	Scale:	1:25	
Method Used:		ction pit + ercussion -	Plar Use		ando 3000 Icchio GEO	I		ny Hutt + m Carter	Logged DNeylon + Bv: JAlton	Checked By:		AGS

BOREHOLE LOG

EMG Phase 2 Contract Ref: Start: 07.09.22 Ground Level (m AOD): National Grid Co-ordinate: Sheet:	
	BH03
765514 End: 21.09.22 76.90 E:446012.3 N:324864.8	of 11

Į		000		Liiu.	21.0				0.50		_	211100121011102100110		01 11
			Sample	s & Testing	1	Mecha	anical	Log	s <u>s</u>	₽	Į.		Depth	Material
	Depth	NIa	Time	Deculte	TCR	SCR	RQD	If	Flush Returns & Details	Backfill	Water	Description of Strata	(Thick	Graphic
	(m)	No	Туре	Results	(%)	(%)	(%)	(mm)	₽8° Per P	m	>		ness)	Legend
	_											TOPSOIL		7/1/N .7/1/N .7
	_												(0.35)	1. 7.1 7.1
	_												0.35	·71.
_	_											Stiff reddish brown, mottled grey, slightly	- 0.33	
- 10:30 CB	0.40-0.40	1	D									sandy gravelly CLAY. Gravel is subangular	_	
30	0.40-0.60 0.50-0.50	2 101	B ES	1xT+1xJ+1xV						\bowtie		fine to coarse of mudstone and siltstone	_	
	0.60-1.00	4	В	121 1 120 1 120								lithorelics. Low cobble content of tabular siltstone. Frequent beds (<300mm) of silt /		
77.77	0.70-0.70	3	D									siltstone.	_	
72/21/11	_											(MERCIA MUDSTONE GROUP)		• • •
- -	_												_	
8	1.00-1.00	5	D SPT	N=25									_	<u>·•···</u> •
solls	1.00-1.45 - 1.00-1.00	102	ES	1xT+1xJ+1xV									-	<u> </u>
8	1.00-1.45	7	DSPT							V//I			-	<u></u>
Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk.	1.00-1.45	8	В							KZZ1			-	
Ë	_									///			-	
, K	-												-	
S.C0	- 4 70 4 70									[22]			-	
V.SOI	1.70-1.70	9	D							///			-	
§	-												-	
veb:	2.00-2.45		SPT	N=31						(22)		Below 2.00m: Very stiff.	-	<u></u>
ر کو ا	2.00-2.45	11	DSPT	11-51								Delow 2.00m. Very Sun.	-	
222	2.00-2.45	12	В										-	<u>•</u> ••••
?	-									///			-	
019	_												- (4.15)	•••••
-ax	-												-	
ίζ Ω	-									///			-	•••••
225	2.70-2.70	13	D										1	
-/ /6	-									[22]			Ī	
5	-									///			-	
Yorksnire, WF10 1NJ. 16I: 01977-552255,	3.00-3.44		SPT	6,8/8,15,15,12						K///				
Ź	- - 3.00 - 3.44	15	DSPT	for 60mm						[22]				
1	- 3.00-3.44 - 3.00-3.45	15 16	B B											
e (_	.	-							K//				<u> </u>
ksni	_									1///				
	_									[///				<u> </u>
Ves	_									K221			_	
ğ,	3.70-3.70	17	D							[///]			-	<u></u>
stler	-									///			-	
, S										[22]			-	<u></u>
leer	4.00-5.00				↑	🐧	1		1			4.00-4.50m: AZCL.	-	
2	- (0:00) - 4.00-4.39		SPT	4,5/12,15,17,6					wn)	K//			-	<u>- </u>
olle	-			for 15mm	45	0	0		(Brown)	[22]			}	
Potteries, Pottery Street, Castleford, West	4.00-4.39	19	DSPT										- ,	
										///			4.50	<u></u>
í														

ш.													
The		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slov	v Progress	Caparal	Damarl		
Castleford:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remair	(S	
astl			Depth	Depth	(mm)	Depth			(1111.11111)	1 Desition algored using C	AT and Can		
Ltd, Branch Office - Ca	07/09/22 20/09/22 20/09/22	17:10 13:15	4.00 4.00 14.00	3.00 0.00 4.00	200 200 146	- 3.80 13.60	3.50	4.00	00:30	 Position cleared using C Hand dug inspection pit Drilled using 200mm dia Borehole backfilled with completion. SPT hammer AR3104-2 	to 1.20m. meter tools a bentonite up	and casi	Ü
Structural Soils Li	Method Used:	Cable Po	ction pit +	Plan • Use		o 3000 Mar acchio Geo			onny Hutt + Sam Carter	All dimensions in metres Logged JAlton + By: RStan	Scale: Checked By:	1:25	AGS

120												BOREH	UL		.UG
Contract:				_				Cli	ent:				Boreho	le:	
		EMG	Pha								- 1	SEGRO			BH03
Contract Ref									evel (m			National Grid Co-ordinate:	Sheet:		
7	655	514		End:	21.09				76.90			E:446012.3 N:324864.8		2	of 11
Depth		Samples	& Test	ting		Mecha	anical	Log	ns ails	▋	ter	5		Depth	
(m)	No	Туре	Res	sults	TCR	SCR (%)	RQD	lf (mm)	Flush Returns & Details	Backfill	Water	Description of Strata		(Thick ness)	Graphic Legend
4.80 5.00-6.50 (0:00)	20	D			45	0	0		Brown)			Firm to stiff thinly to thickly lam locally very thinly bedded, reddish silty CLAY with occasional to frangular to subangular fine to mangular size lithorelics of much occasional laminae (5 to 10m extremely weak siltstone. GRADE III. (MERCIA MUDSTONE GROUP)	brown equent nedium dstone. m) of	- - - - -	X
- - - 5.80 -	21	D			100	10	0		(Brown)			5.72-5.76m: Very weak ligh siltstone.	it grey	(2.30)	- x - x - x - x - x - x - x - x - x - x
6.50-8.00 (0:00)					*	X	X X		X			6.22-6.28m: Very weak light siltstone 6.39-6.46m: Very weak thinly to laminated reddish brown much Bedding fractures are extremely spaced, 0°, undulating, smooth, <1m clay on surfaces.	thickly dstone. closely		x _ x x _ x
7.10	22	D			93	6	0		(Brown)			6.59-6.71m: Extremely weak thi very thinly bedded light greenish siltstone. Bedding fractures are ext closely spaced, undulating, smooth, little clay smear and occasional specks on surfaces. Extremely weak, locally very weak thinly bedded reddish brown MUDS GRADE II.	remely with a black	6.80 - - -	
8.00-9.50 (0:00) - 8.50	23	D			97	11	0	NI 30 90	(Brown)			Discontinuities: Extremely closely to spaced, randomly orientated, undi smooth, black stained, locally clean thin clay smears on surfaces. (MERCIA MUDSTONE GROUP) 7.01-7.04m: Siltstone recove gravelly clay. 7.11-7.28m: 75° to 80° und rough discontinuity with 1m clasurfaces. 7.30-7.33m: Moderately wea greenish grey siltstone. 7.33-7.60m: 80° to 90° und rough clean discontinuity. . 7.78-7.86m: Band of extremely light greenish grey siltstone. 8.05-8.30m: 80°-90° und	ulating, Rare red as ulating ay on k light ulating	(3.30)	

2		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow P	rogress	General	Domorl		
asticiona	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	(5	
- 20													
5 E.G., D													
2										All dimensions in metres	Scale:	1:25	
מו תכומיי	Method Used:	Cable Pe	tion pit + ercussion -	Plan Used		3000 Mar icchio Geo			ny Hutt + m Carter	Logged JAlton + By: RStan	Checked By:		AGS

BOREHOLE LOG

Contract							Or.	ont.			BOKEH			
Contract:		EMG	Phase 2	,			Cli	ent:			SEGRO	Boreho		BH03
Contract Ref		LIVIC		: 07.0	9 22	Grou	ınd Le	evel (m	AOD).	\neg	National Grid Co-ordinate:	Sheet:		DI 103
		514		21.0				76.90			E:446012.3 N:324864.8	O noot.	3	of 11
			s & Testing	_				_			L:4400 12:0 14:024004:0		1	
Depth (m)	No	Туре	Results		SCR	RQD (%)	If (mm)	Flush Returns & Details	Backfill	Water	Description of Strata		Depth (Thick ness)	Material Graphic Legend
9.43 9.50-11.00	24	С		97	11	0	NI 30 90	(Brown)			8.87-8.93m: 60°-70° und smooth black stained discontinuity. Extremely weak, locally very weathinly bedded reddish brown MUDS GRADE II. Discontinuities: Extremely closely to spaced, randomly orientated, und smooth, black stained, locally clear	k, very TONE. closely ulating,	-	
(0:00)	25	С					90				thin clay smears on surfaces. (MERCIA MUDSTONE GROUP) (stratum copied from 6.80m from p sheet) 9.40-9.50m: 40°-50° und smooth black stained discontinuity.	revious dulating	10.10	
				100	53	38	, T	(Brown)			Very weak very thinly to medium reddish brown MUDSTONE. GRAD Bedding fractures: Very closely to spaced, 0° to 5°, undulating, slocally black stained, occasionally GRADE II.	E II. nedium smooth,	-	
-				¥	 	<u> </u>	70 300	<u> </u>			(MERCIA MUDSTONE GROUP)10.10-10.27m: 75° undulating solution locally black stained, discontinuity, little clay smear on surfaces 10.46-10.49m: Very weat greenish grey siltstone.	with a	(1.10)	
11.00-12.50 (0:00)	26	С				Ī	- X -				black stained discontinuity. 10.56-10.73m: Randomly ori extremely closely to very closely undulating smooth clean discontinuit. 10.70-11.00m: Occasional diameter light grey reduction spots.	entated spaced ies. 3-5mm	11.20	
				97	68	51	NI 20	(Brown)			10.80-10.86m: 40° undulating discontinuity with a little clay sm surfaces10.90-10.95m: Randomly ori extremely closely to very closely undulating smooth clean locally stained discontinuities. Extremely weak thinly laminated to bedded reddish brown MUDS GRADE II.	ear on entated spaced black o thinly	(2.18)	
12.50-14.00 (0:00)				*	 	*	120	X			Bedding fractures: Extremely clo closely spaced, 0° to 5°, unc smooth, locally rough, clean, locall stained (MERCIA MUDSTONE GROUP)	ulating,	-	
-				97	37	8		(Brown)			(MERCIA MODS TONE GROOP) 11.40-11.43m: Very wea greenish grey siltstone 11.45-12.00m: Occasional medium gravel size light greenis siltstone inclusions 11.79-11.80m: 2 no laminae (<2 extremely weak light greenish siltstone.	fine to h grey	13.38	

	Boring Pro	ogress and	Water Ob			Chisel	ling / Slow I	Progress	Genera	Domor	ko	
Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	Genera	Remai	NS	
		Depth	Depth	(mm)	Depth			(]			
									All dimensions in metre	s Scale:	1:25	
Method		tion pit +	Plan		3000 Mar			nny Hutt +	Logged JAlton +	Checked		
Used:		ercussion -	+ Used	u: Coma	cchio Geo	602	By: S a	m Carter	By: RStan	By:		AGS



Ope											B	OREH	OL	ᄕ	.OG
Contract:							Cli	ent:					Boreho	ole:	
		EMG F	Phase 2								SEGRO				BH03
Contract Ref	:		Start:	07.09	9.22	Grou	ınd L	evel (m	AOD):		National Grid Co-ordina	ate:	Sheet:		
7	65	514	End:	21.09	9.22		7	76.90			E:446012.3 N:	324864.8		4	of 11
Depth		Samples &	Testing	TCD	/lecha	anical RQD	Log	Flush Returns & Details	Backfill	Water	Descripti	ion of Strata		Depth (Thick	
(m)	No	Туре	Results	(%)	(%)	(%)	(mm)	Retus Petus Petus	Ва	Ň				ness)	Legend
_ 13.83 _ 14.00-15.50 - (0:00) -	27	С		97	37	8	NI 20	(Brown) (Brown)			grey siltstone 12.30-12.50r grey reduction spots 12.30-13.20r very closely space undulating smooth, locally black stained 13.00m: Thin extremely weak silts 13.15-13.1; greenish grey siltsto Extremely weak to v thinly bedded reddis GRADE II. Bedding fractures: spaced, 0° to 15° black stained, w specks.	m: Rare light gis. n: Extremely closed randomly orielocally rough, discontinuities. I lamination (<5rtone. 8m: Moderately ne. very weak very to brown MUDS Very closely to yound undulating, s	reenish sely to entated clean, mm) of weak minly to TONE. closely mooth,	-	
- - - - - - - - - - - - - - - - - - -	28	С		_	*	X	120	X			(MERCIA MUDSTO (stratum copied fron sheet) 13.50-13.58m greenish grey clayey 13.58-13.6 greenish grey siltsto 13.71-13.7 greenish grey siltsto 14.48-14.68m rough discontinuity	in 13.38m from prominents. Extremely weary siltstone. Some Very wearne. "4m: Very wearne." 185° to 90° unc.	ak light k light k light	-(3.49)	
 16.00 	29	С		97	40	27		(Brown)			specks 14.62-14.67m discontinuity with fre 14.80-14.81m greenish grey siltsto 14.97-15.00m grey siltstone 15.01-15.21m: (<5mm) of extreme siltstone 15.34-15.50m: smooth black stained	a: 45° undulating equent black special Extremely weane. a: Extremely weane. b: Weak light gives the service of the service o	rough cks. ak light reenish aminae weak	-	
- - - - - - - - - - - - - - - - - -				100	63	37	NI 50 230	(Brown)			clean discontinuity lost of the state of the	70° undulating socally black stain Drilling disturbed 50° undulating some clay infill. 66m: Very weal one. Extremely todomly orientated clean, discontinuecks on surfaces: 80° to 90° undulating. (Soft to firm	ed smooth k light o very d black nuities. s. lulating	16.87 - - - - - -	

2		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	rogress	General	Domor	ko	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remai	KS	
3			'		()								
;													
5													
[All dimensions in metres	Scale:	1:25	
7	Method Used:	Cable Pe	ction pit + ercussion -	Plan Used		o 3000 Mar acchio Geo			ny Hutt + m Carter	Logged JAlton + By: RStan	Checked By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:30 | TC9 |



BOREHOLE LOG

Contract:					Clier	nt:			Boreho	ole:		
	EMG Pha	se 2						SEGRO			Bŀ	H03
Contract Ref		Start:	07.09.22	Ground	d Lev	el (m A	OD):	National Grid Co-ordinate:	Sheet:			
7	65514	End:	21.09.22		76	6.90		E:446012.3 N:324864.8		5	of	11
	Samples & Test	tina	Mecha	nical I d	oa	S	_			Danth	L.	otorial

	1	65	714	End:	21.0	9.22			6.90			E:446012.3 N:324864.8	5	of 11
			Sample	s & Testing		Mecha	anical	Loa	S				Donth	Meterial
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfill	Water	Description of Strata	Depth (Thick ness)	Material Graphic Legend
17/12/22 - 10.30 103	- - - 18.28 - 18.50-20.00 - (0:00)	30	С		100	63	37		(Brown)			16.60-16.82m: Thinly and thickly laminated 17.04-17.06m: Weak light greenish grey siltstone 17.10-17.38m: 2 no parallel 80° very closely spaced undulating smooth black stained discontinuity 17.37-17.41m: Extremely closely spaced thick laminae (<10mm) of very weak light greenish grey siltstone 17.53-17.58m: Very weak light	- (3.13)	
s.co.uk, Email. ask@solls.co.uk.	19.30	31	С		100	49	28	NI 50 230	(Brown)			greenish grey siltstone 17.88-18.00m: 85° undulating smooth clean discontinuity. Very weak, locally extremely weak, thickly laminated to thinly bedded, locally medium bedded, reddish brown MUDSTONE. GRADE II Bedding fractures: Extremely closely to medium spaced, 0° to 10°, planar and undulating, smooth, clean, locally with black specks on surfaces.	- - - - - -	
Onsille, WI TO TWO: Tel. O1917-O022-00, Lav. O1917-O022-99, Web. WWW.50lis.co.un, Ellian. asn@50lis.co.un.,						•			•			(MERCIA MUDSTONE GROUP) (stratum copied from 16.87m from previous sheet) 18.21-18.25m: Weak light greenish grey siltstone 18350-18.95m: Extremely closely to very closely spaced, randomly orientated clean discontinuity with occasional black specks on surfaces 18.55-18.92m: 85° to 90° undulating smooth discontinuity with occasional black specks 18.98-19.20m: 85° to 90° undulating smooth discontinuity with occasional black specks 19.07-19.12m: 30° undulating smooth discontinuity with occasional black specks.	20.00	
are les, rouely sueer, casueloid, west folksille, wr to fin	-											19.20-19.27m: 60° undulating smooth discontinuity with occasional black specks 19.60-20.00m: 85° undulating rough discontinuity with frequent black specks 19.83-19.88m: Very weak light greenish grey siltstone. Cable percussion borehole terminated at 20.00m depth.	- - - - - - -	
, , , ,	-												-	

<u> </u>		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	Progress	General	Domorl	.	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	(5	
Elly, Dianon Onice - Ca					()								
200										All dimensions in metres	Scale:	1:25	
סוו מכוניו כ	Method Used:	Cable Pe	tion pit +	Plan Use		3000 Mar acchio Geo			ny Hutt + m Carter	Logged JAlton + By: RStan	Checked By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Soils Lid, Branch Office - Castleford: The Pottery Street, Castleford, West Yorkshire, WF10 1N. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. | 11/12/22 - 10:30 | TC9 |

Rotary Cored

BOREHOLE LOG

EMG Phase 2 SEGRO BH0 Contract Ref: Start: 09.09.22 Ground Level (m AOD): National Grid Co-ordinate: Sheet: 765514 Find: 26.09.22 T6.87 F:446012.8 N:324872.6 1 of 10	Contract:		Client:		Borehol	e:		
, , ,	EMG Pha	se 2		SEGRO			В	H04
765514 End 26 09 22 76 87 F:446012 8 N:324872 6 1 of 10	Contract Ref:	Start: 09.09.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:			
700017 Elid. 20.03.22 70.07 E.1710012.0 11.027012.0	765514	End: 26.09.22	76.87	E:446012.8 N:324872.6		1	of	16

Ī			Sample	s & Testing		Лесhа	nical	I oa	v	∞			Da::41.	Mataria
	Depth		Campic	3 & resuing	TCD.	SCR		Log Ls	Flush Returns & Details	kfill stru-	Water	Description of Strata	Depth (Thick	Material Graphic
	(m)	No	Туре	Results	(%)	(%)	(%)	(mm)	Flus Retu	Bac Ins	Š	Description of ettata	ness)	Legend
	0.10 0.10 0.10 0.10-0.30	1 101 2	D ES B	1xT+1xJ+1xV			()	(****)				TOPSOIL	(1.20)	
	0.80 0.80-1.10 -0.90 0.90-1.20 1.00 1.00 1.20-1.65 1.20-1.65	3 4 5 6 102 103	DBDBESST BSBB	1xT+1xJ+1xV 1xT+1xJ+1xV N=17								Firm to stiff dark brown sandy gravelly CLAY with low cobble content. Sand is fine to coarse. Gravel is angular to subrounded	1.20	27 27 37 37 37 37 37 37 37 37 37 37 37 37 37
and the second	1.70	8	D									fine to coarse of mudstone. Cobbles are subangular to well rounded (<100mm). 1.20-1.60m: With frequently thin laminae (<3mm) of extremely weak light	1.60	Ø
	2.00 2.00-2.45	104 9	ES UT _(UT100)	1xT+1xJ+1xV 53 blows 100% recovery								bluish grey mudstone / siltstone. Firm reddish brown slightly sandy slightly gravelly CLAY with occasional fine and medium gravel size pockets of grey silty sand. Sand is fine and mudstone derived. Gravel is angular and subangular fine extremely weak mudstone lithorelics. (MERCIA MUDSTONE GROUP)	- - -(1.10) - -	
, 00==00	2.70	10	D									Very stiff reddish brown slightly gravelly	2.70	
	3.00-3.45 3.00 3.00-3.45 3.00-3.45	105 12 13	SPT ES DSPT B	N=36 1xT+1xJ+1xV								sandy CLAY with frequent fine and medium gravel sized pockets and lenses up to 25mm in width of grey silty sand. Sand is fine and medium and mudstone derived. Gravel is angular and subangular fine extremely weak to very weak mudstone lithorelics with relic laminae observed on some of the fragments. Destructured mudstone Grade IVa. (GUNTHORPE MEMBER)	- - - -	
	3.70	14	D									(MERCIA MUDSTONE GROUP)	(2.30)	
and have from the state of	4.00-4.38 4.00-4.38 4.00-4.45	16 17	SPT DSPT B	4,8/10,18,22 for 75mm									- - -	
. L					·			·					L	

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ne L		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	rogress	General I	Domorko
tord:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration	Generali	Remarks
astle	Date	TITIC	Depth	Depth	(mm)	Depth	1 10111	10	(hh:mm)	1. Position cleared using Ca	AT and Canny
3	09/09/22	14:01	1.20	None	200	Dry	4.70	5.00	00:30	2. Hand dug inspection pit t	
e E	12/09/22		1.20	None	200	-				3. Borehole drilled using 20	0mm casing and tools.
2	12/09/22	13:42	5.31	3.00	200	Dry				4. Borehole installed with 5	
anc	22/09/22									completion. Response zo	
ž	22/09/22	16:30	30.30	5.00	146	20.90 10.90				5. SPT hammer AR3104-2	$022 (E_r = 04.00\%)$ used.
Ĕ		3/09/22 08:15 30.30 5.00 14									
SOIIS	23/09/22	3/09/22 16:30 30.30 None 146								All dimensions in metres	Scale: 1:25
<u></u>										All difficusions in metres	
tructur	Method Used:		ction pit + ercussion -	Plan Used		ndo 3000 · cchio GEC			ny Hutt + m Carter	Logged DNeylon + By: JAlton	Checked By: AGS



BOREHOLE LOG

Contract:				Clie	nt:				Boreho	le:		
EMG F	hase 2							SEGRO			В	H04
Contract Ref:	Start:	09.09.22	Ground	d Lev	vel (m	AOD):	Na	ational Grid Co-ordinate:	Sheet:			
765514	End:	26.09.22		7	6.87			E:446012.8 N:324872.6		2	of	16
0 1 0	-											

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			Sample	s & Testing	1	Mecha	anical	Log	s <u>s</u>	∞ . 5	ī		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Return & Deta	Backfill & Instru- mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
65	4.70	18	D										5.00	
Yorkshire, WF10 1NJ. 161: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 10:31 1C9	5.00-6.30 - (0:05) - 5.00-5.31 - 5.00-5.31	20	SPT DSPT	15,10/18,21,11 for 35mm	69	3	0		Air+Mist (Brown)			Very stiff reddish brown slightly sandy gravelly CLAY. Sand is fine to coarse mudstone derived. Gravel is angular extremely weak mudstone lithorleics. GRADE IVa. (MERCIA MUDSTONE GROUP) 5.10-5.30m: trace thick laminae and very closely spaced thin laminae (<4mm) of extremely weak mudstone.		
พ.soils.co.uk, Emaii: ลรหเซ	- - - 6.00 - - 6.30-7.80	29	D		 - X -	 - 						5.30-5.38m: weak greenish grey thickly laminated fine grained sandstone. 6.20-6.25m and 6.35-6.40m: extremely weak thickly laminated mudstone	- (1.90) - - -	
Fax: 01977-552299, Web: ww	- (0:03) - - - - - -				93	60	56		Air+Mist (Brown)			below 6.40m: frequent fine to coarse gravel size pockets of greenish grey sandy silt. 6.70-6.80m: Weak greenish thickly laminated grey sandstone. Extremely weak greenish grey SILTSTONE. Fractures: Very closely spaced, incipient, smooth, planar, with	6.90	
/F10 1NJ. I el: 01977-552255,	- 7.05-7.23 - - - - -	30	С						Air-			black specks on surfaces. Extremely weak reddish brown MUDSTONE. GRADE II. Fractures: Closely spaced, randomly orientated, smooth, planar, tight, with black staining on surfaces. (MERCIA MUDSTONE GROUP)	-	
otteries, Pottery Street, Castleford, West Yorksnire, W	7.80-9.30 (0:05)				100	48	27		Air+Mist (Brown)				(2.60)	
tteries, Pottery St	8.80	31	D									8.70-9.10m: fine to medium gravel size pockets and lenses (<10mm) of greenish grey siltstone.	-	

2		Boring Pro	ogress and	Water Ob			Chisell	ing / Slow F	rogress	General	Domarl	/ C	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	TCIIIAII	~	
-													
										All dimensions in metres	Scale:	1:25	
	Method Used:	Cable Pe	tion pit + ercussion -	Plan Used		ando 3000 cchio GEC			ny Hutt + m Carter	Logged DNeylon + By: JAlton	Checked By:		AGS

BOREHOLE LOG

V							1-				DUKER			
Contract:) Di				Cli	ent:			05000	Boreho		DI 'A
		EMG	Phase 2							_	SEGRO			BH04
Contract Ref			Start:	09.09	9.22	Grou			m AOD):		National Grid Co-ordinate:	Sheet:		
7	65	514	End:	26.09	9.22			76.8			E:446012.8 N:324872.6		3	of 16
		Samples	& Testing		Mecha	anical	Log	S	s = s	<u></u>			Depth	Materi
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Return	& Details Backfill & Instrumentation	Water	Description of Strata		(Thick ness)	Graph Legen
9.30-10.80 (0:06)				100	48	27		*			Extremely weak reddish MUDSTONE. GRADE II. Fractures: Closely spaced, ra orientated, smooth, planar, tight, with staining on surfaces. (MERCIA MUDSTONE GROUP) (stratum copied from 6.90m from prosheet)9.10-9.15m: gravelly clay. Extremely weak reddish		9.50	
- 10.15-10.20	32	С		100	60	33		Air+Mist	(Blown) (DICTIONALLY CONTROLLY CONT		MUDSTÓNE, recovered as clayey angular to subangular fine to coarse GRADE III. (MERCIA MUDSTONE GROUP) Extremely weak reddish MUDSTONE with fine gravel size p and lenses (<20mm) of greenish siltstone with black specks. GRADE Bedding fractures: Closely spaced, s undulating, with frequent black s	brown bockets a grey II.	9.95 - - - - - - - - - - - - - -	
10.80-12.30 (0:06)				*	- X -	X		*			along surfaces Fracture set 2: Very closely services randomly orientated, smooth, undowith black staining on fracture surface (MERCIA MUDSTONE GROUP) below 10.80m: no randomly orientatures.	ulating, es. entated	- - - -	
11.40-11.70	33	С		97	62	51		Air+Mist	· · · · · · · · · · · · · · · · · · ·		greenish grey siltstone 11.20-11.40m: very sandy gravel. Gravel is angular to subamudstone. Extremely weak reddish MUDSTONE with fine to medium size pockets of greenish grey sil	clayey angular brown gravel	11.40	
- 12.30-13.80 (0:04)				*	<u> </u>	*		<u> </u>			GRADE II. Bedding fractures: Medium to spaced, rough, undulating, infille greenish grey sandy gravel of ang subangular fine to medium siltstone to laminae of siltstone). Fracture set 2: Closely spaced, ra orientated, undulating, smooth, occasional black staining along surfa (MERCIA MUDSTONE GROUP)	d with ular to (likely ndomly with	- - - - -	
12.90-13.00	34	С		97	78	45		Air+Mist					- - - -	

2		Boring Pro	ogress and	Water Ob			Chisell	ing / Slow F	rogress	General	Domarl	/ C	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	TCIIIAII	~	
-													
										All dimensions in metres	Scale:	1:25	
	Method Used:	Cable Pe	tion pit + ercussion -	Plan Used		ando 3000 cchio GEC			ny Hutt + m Carter	Logged DNeylon + By: JAlton	Checked By:		AGS

BOREHOLE LOG

Contract:								Cli	ent:					Boreho	le:		
		EMC	3 Pha	se 2								SEGRO				BH	104
Contract Re	f:			Start:	09.09	.22	Grou	ınd Le	evel (m	AOD):		National Grid Co-	-ordinate:	Sheet:			
7	765514 Samples & Te			End:	26.09	.22		7	76.87	,		E:446012.	8 N:324872.6		4	of	16
Depth (m)	No	Sample Type	s & Testi Res				anical RQD (%)	If	Flush Returns & Details	Backfill & Instru-mentation	Water	Des	scription of Strata		Depth (Thick ness)	Gra	aterial aphic gend

		Sample	s & Testing	N	Mecha	anical	Log	<u>s</u> <u>s</u>	tio = ∞	ļū.		Depth	Material
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns	Backfill & Instru-mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
13.80-15.30 (0:04) - - 14.05-14.32		С		97	78	45		Air+Mist (Brown)			Extremely weak reddish brown MUDSTONE with fine to medium gravel size pockets of greenish grey siltstone. GRADE II. Bedding fractures: Medium to widely spaced, rough, undulating, infilled with greenish grey sandy gravel of angular to subangular fine to medium siltstone (likely to laminae of siltstone). Fracture set 2: Closely spaced, randomly orientated, undulating, smooth, with occasional black staining along surfaces. (MERCIA MUDSTONE GROUP) (stratum copied from 11.40m from previous sheet)	(5.80)	
15.30-16.80 (0:05)				93	53	29		Air+Mist (Brown)			15.40-15.60m: extremely weak grey siltstone.		
16.60-16.80 16.80-18.30 (0:05)		С			*	X		*			below 16.30m: with closely spaced thin and thick laminae of siltstone.	-	
-				100	21	0		Air+Mist (Brown)			Extremely weak reddish brown MUDSTONE. GRADE II. Fractures: Very closely spaced, randomly orientated, rough, undulating fractures with dark brown staining along surfaces. (MERCIA MUDSTONE GROUP) 17.50-17.60m and 17.80-17.85m, clayey gravel of angular to subangluar fine to medium mudstone.	17.20	

		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	Progress	General	Domor	ko	
	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remai	NS	
			Depth	Depth	(mm)	Depth			(
											_		
										All dimensions in metres	Scale:	1:25	
М	ethod	Inspec	tion pit +	Plan	t Da	ando 3000	+	Drilled Jor	ny Hutt +	Logged DNeylon +	Checked		
Us	sed:		ercussion ·	+ Used		cchio GEC	I		m Carter	By: JAlton	By:		AGS
		Rota	rv Cored								1 -		1100

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web



BOREHOLE LOG

Contract:		Client:		Borehol	e:		
EMG Pha	se 2		SEGRO			В	H04
Contract Ref:	Start: 09.09.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End: 26.09.22	76.87	E:446012.8 N:324872.6		5	of	16
0 1 0 7							

			Sample	s & Testing	ľ	Mech	anical	Log	S :	tion - I	Į.		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Return	Backfill & Instru-	Water	Description of Strata	(Thick ness)	Graphic Legend
	- 19 20	27	7		100	21	0					below 17.85m: increased proportion of fractures.	-	
22 - 10:31 TC9	_ 18.20 _ 18.30-19.80 - (0:05) - - -	37	D		- X -	X	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	_	 			Extremely weak reddish brown MUDSTONE with fine to medium gravel size pockets of greenish grey siltstone. GRADE II. (MERCIA MUDSTONE GROUP) 18.30-18.45m: approximate 85°,	(0.50) - - - - - - - - - - - - - - - - - - -	
Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. 1el: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk, 17/12/22 - 10:31 1C9	- - - - 19.05-19.25 - -	38	С		100	97	45		Air+Mist (Brown)			smooth, planar fracture, with black staining along surfaces. Medium strong greenish grey fine grained SANDSTONE. Partially weathered. (MERCIA MUDSTONE GROUP) below 19.00m: verging towards sitlstone. Bedding fractures infilled with silty sand.	- -19.05 - -	
/eb: www.soils.co.uк, ьта	- - - 19.80-21.30 - (0:05)				- X -	X		_	X			Extremely weak reddish brown MUDSTONE. GRADE II. Fractures: Closely spaced, randomly orientated, rough, undulating, with dark brown staining along surfaces. Occasional fine to medium gravel size pockets of siltstone. (MERCIA MUDSTONE GROUP)	- - - (1.60) -	
ю, гах: 01977-552299, W	- - - -				100	67	55		Air+Mist (Brown)			(WEITONT MODE TONE GROOT)	- 20.65	
J 1NJ. Tel: 01977-55225	- _ 20.80-20.90 - -	39	С						A			Weak to medium strong greenish grey fine grained SANDSTONE with frequent black specks. (MERCIA MUDSTONE GROUP) Extremely weak reddish brown MUDSTONE closely interbedded with extremely weak greenish grey	(0.30)	
Yorksnire, WF10	21.30-22.80 (0:06)				*	X	 	_	X			SILTSTÓNE. Bedding fractures: Closely spaced, rough, undulating. (MERCIA MUDSTONE GROUP)	21.50	
Street, Castleford, West	-				100	75	51		Air+Mist (Brown)			Weak to medium strong greenish grey fine grained SANDSTONE with frequent black specks. Bedding fractures: Closely spaced, rough, undulating. (MERCIA MUDSTONE GROUP)	(0.70)	
teries, Pottery	22.20-22.45	40	С									Description on next sheet	(0.40)	
j j														

	Borin	g Pro	gress and	Water Ob	servations		Chisell	ing / Slow F	Progress	General	Domorl	40	
Dat	e Tim	ne	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	15	
					()								
,													
										All dimensions in metres	Scale:	1:25	
Metho			tion pit +	Plar		ando 3000			nny Hutt +	Logged DNeylon +	Checked	1.23	
Used:			rcussion -	+ Use	d: Coma	cchio GEC	601	By: S a	m Carter	By: JAlton	By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1N. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:31 | TC9 |

Rotary Cored

BOREHOLE LOG

Contract:							Cli	ent:				Boreho	le:	
		EMG	Phase 2								SEGRO			BH04
Contract Ref	:		Start:	09.09	9.22	Groui	nd Le	evel (ı	m AOD):		National Grid Co-ordinate:	Sheet:		
7	65	514	End:	26.09	9.22		7	76.8	7		E:446012.8 N:324872.6		6	of 16
Б "		Samples	& Testing	N	/lecha	anical l	_og	Si Si	ails Tr- Tion	e			Depth	Material
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	lf (mm)	Flush	& Details Backfill & Instrumentation	Water	Description of Strata		(Thick ness)	Graphic Legend
00 00 04 00				100	75 -	51 Y			ΙД•,•,•		MUDSTÓNE randomly transitioning greenish grey SILTSTONE. GRADE Fractures: Closely spaced, ran	II. ndomly	22.60	
22.80-24.30 (0:05) -						1					orientated, rough, undulating, with fre black staining along surfaces and fre black specks on siltstone. (MERCIA MUDSTONE GROUP) (stratum copied from 22.20m from pre sheet)	equent evious	- _ _(1.00) - -	
				100	40	23		Air+Mist			Very stiff reddish brown sandy s gravelly CLAY. Sand is fine, mudderived. Gravel is angular to subation fine to medium mudstone lithor GRADE IVa. (MERCIA MUDSTONE GROUP)	dstone Ingular	23.60	
24.00-24.10	41	С									23.05-23.15m: band of thickly laminated greenish grey sandstone below 23.15m: randomly intersputh stiff greenish grey sandy silt. Extremely weak reddish brown MUST	persed	(0.75) -	
24.30-25.80 (0:06)					*	*		*			Bedding fractures: Closely spaced, undulating. (MERCIA MUDSTONE GROUP) below 24.25m: becoming s interbedded/interspersed with greenis	slightly	24.35	× × × × × × × × × × × × × × × × × × ×
- -				100	100	97		Air+Mist			siltstone. Extremely weak greenish SILTSTONE. With incipient fra observed on breaking up the core- staining along surfaces. (MERCIA MUDSTONE GROUP)	grey	- 24.80 - -	× × × × ×
25.25-25.60	42	С						Air			Extremely weak reddish MUDSTONE. GRADE II. (MERCIA MUDSTONE GROUP) 24.80-25.30m: frequent fine size pockets of extremely weak gragey siltstone.		- - -	
25.80-27.30 (0:06) -25.90-26.25	43	С		X	*	*		*			below 25.90m: Bedding frac Widely to medium spaced, smooth, p with black staining along fracture surf	olanar,	- - - -	
26.60-28.30	44	С		100	60	49		Air+Mist			26.50-26.85m: fractures: very of spaced, randomly orientated, undulating, and closely interbedded extremely weak greenish grey siltston	rough, d with	- - - - - (4.30)	

	Boring Pr	ogress and	Water Ob	servations		Chisel	ling / Slow F	Progress	General	Domork	_
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remark	5
			•	,							
									All dimensions in metres	Scale: 1	:25
Method Used:	Cable P	ction pit + ercussion -	Plan Used		ando 3000 cchio GEC			nny Hutt + m Carter	Logged DNeylon + By: JAlton	Checked By:	AGS



12												DOILLI	OL		
Contract:								Cli	ent:				Boreho	ole:	
		EM	G Pha	se 2								SEGRO			BH04
Contract Re	ef:			Start:	09.0	9.22	Grou	nd Le	evel (r	n AOD):		National Grid Co-ordinate:	Sheet:		
	765	514		End:	26.0	9.22		7	76.8	7		E:446012.8 N:324872.6		7	of 16
Depth (m)	No	Ė	s & Tes Res	ting sults		_	RQD (%)		Flush	& Details Backfill & Instru- mentation	Water	Description of Strata		Depth (Thick ness)	Material Graphic Legend
-					100	60	49					Extremely weak reddish MUDSTONE. GRADE II. (MERCIA MUDSTONE GROUP)	brown	-	

Extremely weak reddish brown MUDSTONE GROUP) 27.30-28.80 (0:05) 27.30-28.80 (0:05) 27.30-28.80 (0:05) 27.30-28.80 (0:05) 38.80 (0:05) 4	27.30-28.80 (0:05) 27.30-28.80 (0:05) 27.30-28.80 (0:05) 27.30-28.80 (0:05) 27.30-28.80 (0:05) 27.30-28.80 (0:05) 28.80-30.30 (0:06) 28.80-30.30 (0:06) 28.80-30.30 (0:06) 29.55-29.75 45 C 29.77 70 28.80-30.30 (0:06) 29.77 70 29.20-29.25m: thickly cross laminated sandstone with fine to medium grained sandstone with fine to	Depth (m)	No	Туре	Results	TCR (%)		RQD (%)	If (mm)	-lush Return	Back Back Instr	Wat		Description of Strata	(Thick ness)	Gra Leg
29.55-29.75 45 C 97 77 70 Provided Brough Stone Group Stands and size sandstone with fine to medium sand size vugs. Extremely weak reddish brown MUDSTONE. (MERCIA MUDSTONE GROUP) Weak greenish grey fine to medium grained SANDSTONE with abundant fine to medium sand sized vugs. (0.50) Weak greenish grey fine to medium grained SANDSTONE with abundant fine to medium sand sized vugs. (MERCIA MUDSTONE GROUP) Weak greenish grey fine to medium grained SANDSTONE with abundant fine to medium sand sized vugs. (MERCIA MUDSTONE GROUP) Selow 30.20m: verging towards extremely weak siltstone.	Section Progress and Water Observations Page					100	60	49		*			MUDSTO (MERCI/ 24 size poci grey silts from prev 27.2: greenish 2 sandy cla is angu GRADE greenish beloo pockets	DNE. GRADE II. A MUDSTONE GROUP) 8.80-25.30m: frequent fine gravel kets of extremely weak greenish tone. (stratum copied from 24.80m rious sheet) 0-27.30m: extremely weak to weak grey siltstone. 7.30-27.40m: recovered as very ayey fine to medium gravel. Gravel lar to subangular mudstone. III. 27.70-27.75m: extremely weak grey fine grained sandstone. w 27.90m: fine to coare gravel size	-	
29.55-29.75 45 C 97 77 70 The stress of	Sering Progress and Water Observations Sering Progress and Water Observations Chiselling / Slow Progress					<u> </u>	*	*		*		·	SILTST	NE.	_	X X X X X X X X X X X X X X X X X X X
	Date Time Borehole Casing Borehole Water Diameter Water From To (Aburgan)	- 29.55-29.75 	5 45	С		97	77	70		Air+Mist			(MERCIA 29.2 sandston vugs 29.3 medium g Extremel MUDSTG (MERCIA Weak gre SANDST medium s (MERCIA extremely	A MUDSTONE GROUP) 20-29.25m: thickly cross laminated e with fine to medium sand size 35-29.38m: sandstone with fine to gravel size vugs. y weak reddish brown DNE. A MUDSTONE GROUP) eenish grey fine to medium grained TONE with abundant fine to sand sized vugs. A MUDSTONE GROUP) below 30.20m: verging towards y weak siltstone.	29.50	

_													
e E		Boring Pro	ogress and	Water C	bservations		Chisel	ling / Slow F	rogress	Conoral	Domor	l.o	
j O	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration	General	Reman	KS	
asile	Date	TITIC	Depth	Depth	(mm)	Depth	1 10111	10	(hh:mm)				
)													
5													
5													
<u> </u>													
ģ													
200													
ō as										All dimensions in metres	Scale:	1:25	
SE	Method		tion pit +	Pla		ando 3000			ny Hutt +	Logged DNeylon +	Checked		
	l Used:	Cable Po	ercussion :	+ ∣Uso	ed: Coma	cchio GFC	0 601	Bv: Sai	m Carter	Bv: JAlton	Bv:		MAS

STRUC

STRUCTURAL SOILS

BOREHOLE LOG

Contract:				Client:		Borehole	e:		
EMG Pha	se 2				SEGRO			В	H05
Contract Ref:	Start:	09.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	14.09.22		76.91	E:446018.3 N:324889.5		1	of	12

		_			_							
			Sample	s & Testing	1	Mechanica	l Log	<u>∞</u> ₁.ቨ	₩.		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	Mechanica SCR RQE (%) (%)) If (mm)	Backfi Instru menta	Water	Description of Strata	(Thick ness)	Graphic Legend
6:	0.10-0.10 0.10-0.10 0.10-0.30	1 101 2	D ES B	1xT+1xJ+1xV						Soft to firm orangish brown sandy gravelly CLAY	0.30	0 00 0 00
Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 10:31 TC9	0.50-0.50 0.50-0.80 0.60-0.60	3 4 102	D B ES	1xT+1xJ+1xV						with low cobble content. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of mudstone. Cobbles are subangular to well rounded (<90mm).	- - -	0.00
olls.co.uk. 11/	0.90-0.90 -0.90-1.20 -1.00-1.00	5 6 103	D B ES	1xT+1xJ+1xV							- - -	000
k, Email: ask@s	1.20-1.65 1.20-1.65 1.20-1.65	8	SPT DSPT B	N=17							(2.50)	0.0.0 0.00 0.00
www.soils.co.uk	1.70-1.70	10	D								- -	000 -000 -000
7-552299, Web:		11	UT _(UT100)	80 blows 78% recovery							<u>-</u> -	000 00 00
	· · 2.45-2.55 ·	12	D								-	0. <u></u> 00 - <u></u> 0 000
1977-552	2.70-2.70	13	D							NO RECOVERY - driller notes, obstruction,	2.80	- j ₀ .0-
NJ. 16I: 0	3.00-3.30		SPT	3,4/20,30 for 75mm						possibly sandstone or mudstone boulder.	 -	
Yorkshire, WF10 1NJ. 1el: 01977-552255,	3.00-3.30 3.00-3.30	15 16	DSPT B	101 7011111							- -	
	• • •										(1.70) -	
Jotteries, Pottery Street, Castleford, West	4.00-4.26		SPT(c)	11,14/26,24 for 45mm							- - - -	
otteries, i	-										4.50	

ne L		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	rogress	Conoral	Domarka
tletord:	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remarks
Ltd, Brancn Office - Casti	08/09/22 14/09/22	3/09/22 17:11 9.50			(mm) 200 200	Depth Dry 9.00	3.20 9.00	3.70 9.50	01:00 01:00	Position cleared using C. Hand dug inspection pit 1 Borehole drilled using 20 then down to 150mm fro Borehole installed with a completion. SPT hammer AR3104-2	to 1.20m. 10mm casing and tools, m 11.50m. 50mm standpipe upon
structural solls	Method Inspection pit + Cable Percussion +			Plan Used		ando 3000 ·		Drilled Jon By:	ny Hutt + Luke	All dimensions in metres Logged JAlton + By: RSenior	Scale: 1:25 Checked By: AGS



BOREHOLE LOG

Contract:				Client:				Borehol	le:		
EMG Pha	ase 2						SEGRO			В	H05
Contract Ref:	Start: (09.09.22	Ground	Level (m	AOD):	National Grid Co-ordinate:	Sheet:			
765514	End: '	14.09.22		76.91			E:446018.3 N:324889.5		2	of	12

			Sample	s & Testing	1	Mecha	anical	Log	∞ , 6			Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instru- mentation	Water	Description of Strata	(Thick ness)	
1/12/22 - 10:31 109	4.70-4.70 - 5.00-5.45 5.00-5.00 - 5.00-5.45	18 104 20	D SPT(c) ES B	N=39 1xT+1xJ+1xV					• • • • • • • • • • • • • • • • • • •		Dense multicolored (grey, orange, brown, white, red) very sandy very clayey subangular to well rounded fine to coarse GRAVEL of various lithologies. Medium cobble content of tabular subrounded to well rounded mudstone (<180mm).	(1.00)	
: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/2	5.70-5.70 6.00-6.45 6.00-6.45 -6.00-6.45	21 23 24	D SPT DSPT B	N=23							Stiff reddish brown sandy gravely CLAY with low to medium cobble content. Sand is fine to medium. Gravel is angular to subrounded fine to coarse of mudstone. Cobbles are subangular to well rounded (<90mm).	5.50	
72255, FaX: 01977-552299, Web	7.00	105	ES	1xT+1xJ+1xV								7.20	
st Yorksnire, WF10 1NJ. Lei: 01977-55	7.20-7.20 7.30-7.30 7.50-7.92 - 7.50-7.92 - 7.50-7.92	105 25 27 28	ES D SPT DSPT B	1xT+1xJ+1xV 10,10/9,15,15,11 for 45mm	1						Very dense multicoloured (grey, orange, brown, white and red) sandy very clayey subangular to well rounded fine to coarse GRAVEL of various lithologies. Medium cobble content (<80mm).	- - - - - - - - - - - - - - - - - - -	
teries, Pouery Street, Castleford, Wes	8.70-8.70	29	D								Probable boulder.	8.70	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0

L													
E E		Boring Pro	ogress and	Water C	bservations		Chisel	ing / Slow F	rogress	Conoral	Domor	ماد	
j O	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration	General	Remai	KS	
asile	Date	Tillie	Depth	Depth	(mm)	Depth	1 10111	10	(hh:mm)				
)													
5													
2													
<u> </u>													
ģ													
200										All dimensions in metres	Scale:	4.05	
<u>.</u>							l			All dimensions in metres	Scale.	1:25	
Ē	Method							Drilled Jon		Logged JAIton +	Checked		
=	Used:	Cable Po	ercussion ·	+ ∣Us	ed: Coma	ecchio GEC) 205	Bv:	Luke	Bv: RSenior	Bv:		Mas

BOREHOLE LOG

Contract:				Client:		Boreho	le:		
EMG Pha	ise 2				SEGRO			В	H05
Contract Ref:	Start:	09.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	14.09.22		76.91	E:446018.3 N:324889.5		3	of	12

9.00-9.00 106 ES 31 DSPT SPT S		05	714	Ena:	14.0	9.22			0.51		E.4400 10.3 N.324009.3	3	or 12
9.00-9.00 106 SPT 13,12/21,29 9.00-9.00 106 SPT 13,12/32,18 13,12/32,18 14,1111111111111111111111111111111111			Sample	s & Testing		Mech	anical	Log	& -¹ ië	Æ		Depth	Material
9.00-9.00 106 ES 13,12/21,29 9.00-9.00 106 ES 13,12/32,18 62 0 0 0 0 0 0 0 0 0		No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfi Instru mental	Wate	Description of Strata	(Thick	
9.00-9.50 32 B SPT(c) 13,12/32,18 for 40mm SPT(c) 14,150 for 4	9.00-9.30		ES	for 70mm	_	_	_					(1.00)	
9.50-9.73 34 D Drilling disturbed, very limited recovery. Recovered as probably very dense, grey, reddish brown and yellowish brown angular to subrounded medium to coarse of RAVEL of mudstone, limestone and sandstone. Drilling disturbed, very limited recovery. Recovered as grown and yellowish brown angular to subrounded medium to subrounded mudstone, limestone and sandstone. Drilling disturbed, very limited recovery. Recovered as stiff reddish brown mottled light grey slightly sandy slightly gravelly CLAV. Sand is fine to medium. Gravel is subangular to subrounded fine to coarse of mudstone and limestone. Drilling disturbed, very limited recovery. Recovered as stiff reddish brown mottled light grey slightly sandy slightly gravelly CLAV. Sand is fine to medium. Gravel is subangular to subrounded fine to coarse of mudstone and limestone. Drilling disturbed, very limited recovery. Recovered as stiff reddish brown and reddish brown subangular to subrounded fine to coarse of mudstone and sandstone. Drilling disturbed, very limited recovery. Recovered as grey, yellowish brown and reddish brown subangular to subrounded coarse GRAVEL of mudstone, limestone and sandstone. Drilling disturbed, very limited recovery. Recovered as grey, yellowish brown and reddish brown subangular to subrounded coarse GRAVEL of mudstone, limestone and sandstone. Drilling disturbed, very limited recovery. Recovered as grey, yellowish brown and reddish brown subangular to subrounded coarse GRAVEL of mudstone, limestone and sandstone. 12.30 Drilling disturbed, very limited recovery. Recovered as grey, yellowish brown and reddish brown subangular to subrounded coarse GRAVEL of mudstone, limestone and sandstone. 12.30 Drilling disturbed, very limited recovery. Recovered as grey, yellowish brown and reddish brown subangular to subrounded fine to coarse of mudstone and sandstone. 12.30 Drilling disturbed, very limited recovery. Recovered as grey, yellowish brown and reddish brown and reddish brown subangular to subrounded fine to coar	9.00-9.50 9.20-10.00	32	В	40.40/00.40								-	
9.70 34 D Drilling disturbed, very limited recovery. Recovered as grebally very dense, grey, reddish brown and yellowish brown angular to subrounded medium to coarse GRAVEL of mudstone, limestone and sandstone. 11.20 35 D Drilling disturbed, very limited recovery. Recovered as subrounded midstone, limestone and sandstone. 11.20 35 D Drilling disturbed, very limited recovery. Recovered as suffired from modified in the coarse of mudstone and limestone. 11.20 36 D Drilling disturbed, very limited recovery. Recovered as suffired from modified in the coarse of mudstone and limestone. 11.20 37 Drilling disturbed, very limited recovery. Recovered as grey, yellowish brown and reddish brown subangular to subrounded fine to coarse of mudstone and sandstone. 12.30 36 D Drilling disturbed, very limited recovery. Recovered as grey, yellowish brown and reddish brown subangular to subrounded coarse GRAVEL of mudstone, limestone and sandstone. 12.80-13.00m: 1 no. cobble of very strong dark grey limited recovery. Recovered as grey, yellowish coarse GRAVEL of mudstone, limestone and sandstone. 12.80-13.00m: 1 no. cobble of very strong dark grey limited recovery. Recovered as grey immestone. 13.00-13.45 SPT N=35	-			13,12/32,18 for 40mm	62	0	o					9.70	
11.20 35 D Drilling disturbed, very limited recovery, Recovered as stiff reddish brown mottled light gravelly CLAY. Sand is fine to medium. Gravel is subangular to subrounded fine to coarse of mudstone and limestone. Drilling disturbed, very limited recovery, Recovered as stiff reddish brown mottled light gray slightly sandy slightly gravelly CLAY. Sand is fine to medium. Gravel is subangular to subrounded fine to coarse of mudstone and limestone. Drilling disturbed, very limited recovery, Recovered as grey, yellowish brown and reddish brown subangular to subrounded coarse GRAVEL of mudstone, limestone and sandstone. Drilling disturbed, very limited recovery, Recovered as grey, yellowish brown and reddish brown subangular to subrounded coarse GRAVEL of mudstone, limestone and sandstone. 12.30 36 D Drilling disturbed, very limited recovery, Recovered as grey, yellowish brown and reddish brown subangular to subrounded coarse GRAVEL of mudstone, limestone and sandstone. 12.30 37 B 12.30 37 B 13.00-13.45 SPT N=35	9.70 -										as probably very dense, grey, reddish brown and yellowish brown angular to subrounded medium to	-	000
Drilling disturbed, very limited recovery. Recovered as stiff reddish brown mottled light grey slightly sandy slightly gravelly CLAY. Sand is fine to medium. Gravel is subangular to subrounded fine to coarse of mudstone and limestone. 11.20	10.00-11.50 10.00-10.34 		SPT		X						sandstone. High cobble content of subangular to	-	p 000 c
Drilling disturbed, very limited recovery. Recovered as stiff reddish brown mottled light grey slightly sandy slightly gravelly CLAY. Sand is fine to medium. Gravel is subangular to subrounded fine to coarse of mudstone and limestone. 12.30 36 D Drilling disturbed, very limited recovery. Recovered as grey, yellowish brown and reddish brown subangular to subrounded coarse GRAVEL of mudstone, limestone and sandstone. 12.50-13.00 12.50-13.00 Torilling disturbed, very limited recovery. Recovered as grey, yellowish brown and reddish brown subangular to subrounded coarse GRAVEL of mudstone, limestone and sandstone. 12.80-13.00 37 B 13.00-13.45 SPT N=35												(1.50)	
Drilling disturbed, very limited recovery. Recovered as stiff reddish brown mottled light grey slightly sandy slightly gravelly CLAY. Sand is fine to medium. Gravel is subangular to subrounded fine to coarse of mudstone and limestone. Drilling disturbed, very limited recovery. Recovered as grey, yellowish brown and reddish brown subangular to subrounded coarse GRAVEL of mudstone, limestone and sandstone. Drilling disturbed, very limited recovery. Recovered as grey, yellowish brown and reddish brown subangular to subrounded coarse GRAVEL of mudstone, limestone and sandstone. Drilling disturbed, very limited recovery. Recovered as grey, yellowish brown and reddish brown subangular to subrounded coarse GRAVEL of mudstone, limestone and sandstone. Drilling disturbed, very limited recovery. Recovered as grey, yellowish brown and reddish brown subangular to subrounded coarse GRAVEL of mudstone, limestone and sandstone. Drilling disturbed, very limited recovery. Recovered as grey, yellowish brown and reddish brown subangular to subrounded coarse GRAVEL of mudstone, limestone and sandstone. Drilling disturbed, very limited recovery. Recovered as grey, yellowish brown and reddish brown subangular to subrounded coarse GRAVEL of mudstone, limestone and sandstone. Drilling disturbed, very limited recovery. Recovered as grey, yellowish brown and reddish brown subangular to subrounded coarse GRAVEL of mudstone, limestone and sandstone. Drilling disturbed, very limited recovery. Recovered as grey, yellowish brown and reddish brown subangular to subrounded coarse GRAVEL of mudstone, limestone and sandstone.	•				20	0	0					- -	
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Drilling disturbed, very limited recovery. Recovered as grey, yellowish brown and reddish brown subangular to subrounded coarse GRAVEL of mudstone, limestone and sandstone. High cobble content. Cobbles are mudstone and sandstone. 12.80-13.00 37 B 12.80-13.00m: 1 no. cobble of very strong dark grey limestone. Open hole drilling.											to socios si madetono and impotenti.	(1.10)	
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12.50-13.00 12.80-13.00 12.80-13.00 13.00-13.45 SPT N=35 N=35 N=35 N=35 N=35 N=36 N=36 N=36 N=37 N=38 N=38	12.30	36	D								Drilling disturbed, very limited recovery. Recovered	12.30	0,00
12.80-13.00 37 B 12.80-13.00 in the first strong dark grey limestone. 13.00-13.45 SPT N=35 Open hole drilling.	12.50-13.00				*	+	+				subangular to subrounded coarse GRAVEL of mudstone, limestone and sandstone. High cobble		0 000
13.00-13.45 SPT N=35 Open hole drilling.	12.80-13.00	37	В		40	0	0				content. Cobbles are mudstone and sandstone. 12.80-13.00m: 1 no. cobble of very strong	(0.70)	
	13.00-13.45 13.00	38		N=35	-	 	 				Open hole drilling.	13.00	
	-											<u>-</u> -	

		Boring Pro	ogress and	Water Ob	servations		Chisel	ing / Slow F	rogress	General	Domorl	10	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	NS	
5													
נמי													
5										All dimensions in metres	Scale:	1:25	
	Method Used:	Cable Pe	tion pit + ercussion -	Plan Used		ando 3000 cchio GEC		•	ny Hutt + Luke	Logged JAlton + By: RSenior	Checked By:		AGS



Contract:				Client:				Boreho	le:		
EMG Pha	se 2						SEGRO			В	H05
Contract Ref:	Start:	09.09.22	Groun	d Level (m	AOE)):	National Grid Co-ordinate:	Sheet:			
765514	End:	14.09.22		76.91			E:446018.3 N:324889.5		4	of	12

7	655)14	End:	14.0	9.22		76.91		E:4460	018.3 N:324889.5		4	of
		Samples	s & Testing			anical	Log <u>ĕ , </u> <u> </u>	ē				Depth	
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm) Backfill & Instru-mentation	Water	De	escription of Strata		(Thick ness)	
13.50-13.79		SPT	7,12/18,32 for 60mm							g. AVEL (Driller's Description) from 13.00m from previous		- - - (1.70) -	0.
14.00-14.09 - 14.00 -	39	SPT D	25/50 for 40mm									- - - -	
									Open hole drilling MUDSTONE (D (MERCIA MUDS	g. riller's Description) STONE GROUP)		(0.30)	Δ
15.00-16.00 15.00-15.12		SPT	25/50 for 50mm						bedded reddish b	thickly laminated to very	EII	_15.00 -	
. 15.00	40	D	ioi somin						undulating, smoo	STONE GROUP)	ю 5,	(0.70) -	
15.50	41	D		60	16	10	NI NI NI					- - 15.70	
15.78-15.90	42	С							MUDSTÖNE. G Bedding fractur	res: Closely spaced, 0°		-	
16.00-17.50				X		X			undulating, smoo (MERCIA MUDS 16.10-16.45	STONE GROUP)		- - -	
. 16.73-16.87	43	С		63	63	13	NI 600 200		16.45-16.73	im: NI, recovered as clayey (gravel.	- - -	
- ·									siltstone.	05m: Moderately weak ligh		- - -	
. 17.24	44	D				L.			siltstone.	m: Weak grey siltstone.	g. <i>-</i> y	(3.40)	
17.50-19.00		С		93	93	24	<u> </u>					- -	
	ring F Time	Progress Borel Dep	0	Boreh Diame (mn	ole eter	Wate	From	ing /	/ Slow Progress To Duration (hh:mm)	General F	Rema	arks	
						·							
										All dimensions in metres	Scale:	1:25	5
Method Used: C		ection p	oit + Plan			ndo 30	000 + GEO 205	Drill By:	led Jonny Hutt +	Logged JAlton + By: RSenior	Checke By:		

		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	rogress	General	Domorl	10	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	15	
3													
2													
; 5										All dimensions in metres	Scale:	1:25	
	Method Jsed:	Cable Pe	tion pit + ercussion -	Plan Used		ando 3000 cchio GEC		Ву:	ny Hutt + Luke	Logged JAlton + By: RSenior	Checked By:		AGS



Contract:				C	Client:			Boreho	ole:		
	EMG Pha	ase 2				SEGR	0			Bŀ	1 05
Contract Ref:		Start:	09.09.22	Ground	Level (m AOD):	National Grid	d Co-ordinate:	Sheet:			
7	65514	End:	14.09.22		76.91	E:4460	18.3 N:324889.5		5	of	12
	Samples & Tes	stina	Mecha	anical Loc	1 ∞ . 5 .				Donth	N/4	otorial

Depth No Type Results CRS SCRI ROO If The Community of th	7	655	514	End:	14.0	9.22			76.91		E:446	018.3 N:324889.5		5	of
18.50 46 D 93 93 24 N 150 Services thirty bedded reddish brown bedded grant grey shatsone. In 18.60 18.00 the Very week legit grey shatsone. In 18.60 18.00 through redding grouph clean discontinuity. In 18.60 18.00 through redding grouph clean in 18.60 18.00 through grey shatsone. In 18.60 18.00 through grey shatsone in 18.60 18.00 through grey shatsone. In 18.60 18.00 through grey shatsone in 18.60 18.00 through grey shatsone. In 18.60 18.00 through grey shatsone in 18.60 18.00 through grey shatsone. In 18.60 18.00 through grey shatsone in 18.60 18.00 through grey shatsone. In 18.60 18.00 through grey shatsone in 18.60 18.00 through grey shatsone. In 18.60 18.00 through grey shatsone in 18.60 18.00 through grey shatsone. In 18.60 18.00 through grey shatsone in 18.60 18.00 through grey shatsone. In 18.60 18.00 through grey shatsone in 18.60 18.00 through grey shatsone. In 18.60 through grey shatsone. In 18.60 through grey shatsone. In 18.60 through grey shatsone. In 18.			Samples	s & Testing		Mech	anical	Log	≅ - Light	<u>т</u>				Depth	М
18.50 46 D 93 93 24 N 1 150 Endergrow week thinky bedded reddish brown Market Characteristics of the part of the p		No	Туре	Results	TCR	SCF (%)	RQD (%)	lf (mm	Backfill Instrumentat	Wate	D	escription of Strata		(Thick	
18.50 46 D 33 93 24 N N NUDSTONE GRADE II. Bedding fractures: Closely spaced, 0" to 5", undulating smooth clean discontinuity. With occasional black specks on surfaces. 19.00-20.50 19.0									/ -			Bm: 30°, undulating, smooth	, clean	,	
18.50 46 D 93 93 24 Ni Bedding fractures: Closely spaced, 0° to 5°, undulating smooth, clean (clean country) 19.00-20.50 1												k thinly haddad raddish	brown		
18.50 46 D 93 93 24 Ni 100 100 5. Individual process packed, 0° to 5°. Individual process process packed proces											MUDSTONE. G	RADE II.	DIOWII		
18.50											Bedding fractur	res: Closely spaced, 0°	to 5°,		
19.00-20.50 10.00-20.50 10.00								NII			undulating, smo	oth, clean.			
19.00-20.50 19.00-20.50 19.30 47 D 19.30 48 C 19.30 59 95 95 23 20 20 20 20 20 20 20 20 20 20 20 20 20	18.50	46	D		93	93	24						sheet)		
19.00-20.50 19.00-20.50 19.00-20.50 19.30 47 D 19.30 47 D 19.30 19.30 47 D 19.30 19.30 19.30 19.30 19.30 19.50								150			18.00-18.01	lm: Very weak light grey silts	stone.		
19.00-20.50 19.30 47 D 19.30 95 95 23 250 S 95 95 23 250 S 96 95 23 250 S 97 95 23 250 S 19.30 S 19.3											18.00-18.	14m: 80°, undulating rough	clean		
19.00-20.50 19.30 47 D 19.30 95 95 23 290 95 23 290 95 23 290 95 293 290 293 290 293 293 290 293 293 290 293 293 293 293 293 293 293 293 293 293												lm: Very weak light grov eilte	rtone		
19.00-20.50 19.30 47 D 19.30 18 8.56-18.57 N. Moderately weak to very weak. In the constitution of medium packs light grey siltstone. In the medium pack of the medium bedded reddish brown MUDSTONE. GROUP) 19.20 19.32 m. 65 undulating smooth discontinuity with occasional black specks on surfaces. In 19.20-19.32 m. 65 undulating smooth discontinuity with occasional black specks on surfaces. In 19.25-19.27 m. 25 undulating smooth discontinuity with occasional black specks on surfaces. In 19.46-19.52 Weak greenish grey siltstone. So undulating smooth clean discontinuity with occasional black specks on surfaces. In 19.46-19.52 Weak greenish grey siltstone. So undulating smooth clean discontinuity with a little clay smear on surfaces. In 19.46-19.52 Weak greenish grey siltstone. So undulating smooth clean discontinuity intersected by 80 undulating smooth clean discontinuity. Tom: 25 undulating smooth clean discontinuity intersected by 80 undulating smooth clean discontinuity with intersected by 80 undulating smooth clean discontinuity. Potential smooth clean dis					<u> </u>	<u> </u>	<u> </u>	1			18.27-18.32	2m: Strong light grey siltstone	e.	_	
19.30 47 D 19.30 48 C 20.20-20.40 48 C 20.20-20.40 48 C 20.50-22.00 20.60-20.84 49 C 20.50-22.00 20.60-20.84 49 C 20.50-22.00 50 D 20.50-20.84 49 C 20.50-20.85 68 Ni	19.00-20.50				1	1	↑	<u> </u>			18.39-18.40	m: Strong light grey siltstone	e	19.10	
19.30 47 D 19.30 47 D 20.20 2								1				57m: Moderately weak ligh	nt grey	-	
1.19.00-19.10m; NI, recovered as subangular fine to medium gravel. Emerge Week, thinky to medium spaced, 0° to 10°, undulating smooth, locally rough, clean, (MERCIA MUDSTONE GROUP) 19.20-19.32m; 65° undulating smooth disconfinuity with occasional black specks on surfaces 19.33-19.38m; 25° undulating smooth disconfinuity with occasional black specks on surfaces 19.39.39.38m; 26° undulating smooth disconfinuity with occasional black specks on surfaces 19.39.39.38m; 20° undulating smooth disconfinuity with occasional black specks on surfaces 19.39.38m; 20° undulating smooth disconfinuity with occasional black specks on surfaces 19.39.39.38m; 20° undulating smooth clean disconfinuity. With occasional black specks on surfaces 19.46-19.52; Week greenish grey siltstone. 80° undulating rough disconfinuity with a little clay smear on surfaces 19.60-19.72m; 50° undulating smooth clean disconfinuity 19.84-19.70m; 25° undulating smooth clean disconfinuity 20° undulating smooth c)m· Extremely weak to very y	veak	_	
Very weak, locally extremely weak, thinly to medium bedded reddish brown MUDSTONE. GRADE II. Bedding fractures: Closely to medium spaced, 0° to 10° undulating smooth, locally rough, clean. (MERCIA MUDSTONE GROUP) 19.20-19.32m: 65° undulating smooth discontinuity with occasional black specks on surfaces. 20.50-22.00 20.60-20.84 49 C 20.60-20.84 49 C 20.50-22.00 50 D	19.30	47	D											_	
medium bedded reddish brown MUDSTONE. [1.10] 95 95 23 95 95 23 10 10 10 10 10 10 10 10 10 10 10 10 10 1													_	-	
95 95 23 250 96 95 23 250 97 95 95 23 250 98 95 95 23 250 98 95 95 95 88 N N N N N N N N N N N N N N N N N N								NI						(1 10)	
Bedding fractures: Closely to medium spaced, 0° to 10°, undulating smooth locally rough, clean, (MERCIA MUDSTONE GROUP) 1, 19, 20-19, 32m. 55° undulating smooth discontinuity with occasional black specks on surfaces. 1, 19, 21-19, 25m. 25° undulating smooth discontinuity with occasional black specks on surfaces. 1, 19, 21-19, 25m. 25° undulating smooth discontinuity with occasional black specks on surfaces. 1, 19, 21-19, 25m. 25° undulating smooth discontinuity with occasional black specks on surfaces. 1, 19, 21-19, 25m. 25° undulating smooth discontinuity with occasional black specks on surfaces. 1, 19, 25-19, 27m. 20° undulating smooth discontinuity with occasional black specks on surfaces. 1, 19, 46-19, 52. Weak greenish grey siltstone. 80° undulating rough discontinuity. 120 siltstone. 80° undulating rough discontinuity. 121, 120 siltstone. 80° undulating rough discontinuity. 121, 120 siltstone. 80° undulating rough discontinuity. 121, 120 siltstone. 80° undulating smooth clean discontinuity. 121, 120 siltstone. 80° undulating smooth clean discontinuity. 122, 124, 125 siltstone. 80° undulating smooth clean discontinuity. 123, 124, 125 siltstone. 80° undulating smooth clean discontinuity. 124, 125 siltstone. 80° undulating smooth clean discontinuity. 125, 126, 127, 128, 128, 128, 129, 129, 129, 129, 129, 129, 129, 129								60				a readish brown MUDS	IONE.	- (1.10)	
to 10°, undulating smooth, locally rough, clean. (MERCIA MUDSTONE GROUDEY) . 19.20-19.32m: 65° undulating smooth discontinuity with occasional black specks on surfaces 19.21-19.25m: 25° undulating smooth discontinuity with occasional black specks on surfaces 19.25-19.27m: 20° undulating smooth discontinuity with occasional black specks on surfaces 19.35-19.27m: 20° undulating smooth discontinuity with occasional black specks on surfaces 19.46-19.52: Weak greenish grey sillstone, 80° undulating smooth clean discontinuity 19.46-19.52: Weak greenish grey sillstone, 80° undulating smooth clean discontinuity 19.46-19.52: Weak greenish grey sillstone, 80° undulating smooth clean discontinuity 19.46-19.52: Weak greenish grey sillstone, 80° undulating smooth clean discontinuity 19.48-19.70m: 25° undulating smooth clean discontinuity 19.49-19.70m: 25° undulating smooth clean discontinuity 1					95	95	23	250				es: Closely to medium spac	ced, 0°	-	
20.20-20.40 48 C 20.20-20.40 48 C 20.50-22.00 20.60-20.84 49 C 20.50-22.00 20.60-20.84 49 C 21.50 50 D 21.50 50 D 22.00-23.50 D 22.00-23.50 Borehole Depth Depth											to 10°, undulatin	ig smooth, locally rough, clea	an.	-	
discontinuity with occasional black specks on surfaces. 19.25-19.27m: 20° undulating smooth discontinuity with occasional black specks on surfaces. 19.25-19.27m: 20° undulating smooth discontinuity with occasional black specks on surfaces. 19.25-19.27m: 20° undulating smooth discontinuity with occasional black specks on surfaces. 19.25-19.27m: 20° undulating smooth discontinuity with occasional black specks on surfaces. 19.25-19.27m: 20° undulating smooth discontinuity with occasional black specks on surfaces. 19.25-19.27m: 20° undulating smooth discontinuity with occasional black specks on surfaces. 19.25-19.27m: 20° undulating smooth discontinuity with occasional black specks on surfaces. 19.25-19.27m: 20° undulating smooth clean discontinuity with a little clay smear or surfaces. 19.26-19.27m: 50° undulating smooth clean discontinuity. 19.26-19.72m: 50° undulating smooth clean discontinuity. 19.27-19.20.19m: 50° undulating smooth clean discontinuity. 19.26-19.72m: 50° undulating smooth clean discontin	-												meeth	-	
20.20-20.40 48 C 20.50-22.00 20.60-20.84 49 C 20.50-22.00 20.60-20.84 49 C 20.50-22.00 20.60-20.84 49 C 20.50-22.00 20.60-20.84 49 C 20.50-20.84 49 C 20.50-20.85 20 mudulating smooth clean discontinuity. 20.50-19.72m: 50° undulating smooth clean discontinuity. 20.50-19.72m: 50° und											discontinuity w	าฮ.จ∠กา. ชอ undulating s ith occasional black spec	ks on		
discontinuity with occasional black specks on surfaces. 19.25-19.27m: 20° undulating smooth discontinuity with occasional black specks on surfaces. 19.25-19.27m: 20° undulating smooth discontinuity with occasional black specks on surfaces. 19.33-19.38m: 2 no. parallel extremely closely spaced 80° undulating smooth clean discontinuities. 19.46-19.52: Weak greenish grey siltstone. 80° undulating rough discontinuity with a little clay smear on surfaces. 19.88-19.70m: 25° undulating smooth clean discontinuity. 19.84-20.16m: 85° to 90° undulating smooth clean discontinuity. 22.00-23.50 22.00-23.50 22.00-23.50 22.00-23.50 23.00-23.50 24.00-23.50 25.00-23.50 26.00-23.50 27.78) 27.80 28.00-23.50 29.00-23.50 29.00-23.50 20.00	00 00 00 40	40	_					*			surfaces.	•	г	20.20	
20.50-22.00 20.60-20.84 49 C	20.20-20.40	48	C					1			19.21-	19.25m: 25° undulating s	smooth	-	
20.50-22.00 20.60-20.84 49 C 20.60-20.84 49 49 C 20.60-20.84 49 49 C 20.60-20.84 49 49 C 20.60-20.84 49 C 20.60-20.84 49 49 C 20.60-20.84 49 49 C 20.60-20.84 49 49 49 40 40 40 40 40 40 40 40 40 40 40 40 40	.											ıırı occasional black spec	ks on	-	
20.60-20.84 49 C C C C C C C C C	20 50 22 02				X	 	+ *					19.27m: 20° undulating s	smooth	-	
September Sept		l 1	_		1	1	1				discontinuity wi			-	
Spaced 80° undulating smooth clean discontinuity with a little clay smear on surfaces 19.46-19.52: Weak greenish grey siltstone. 80° undulating rough discontinuity with a little clay smear on surfaces 19.60-19.72m: 50° undulating smooth clean discontinuity	ZU.UU-ZU.ŏ4	49	C									Rm: 2 no narallal extremely	closely	-	
Second S	.													-	
Bo' undulating round discontinuity with a little clay smear on surfaces 19.60-19.72m: 50° undulating smooth clean discontinuity 19.84-20.16m: 85° to 90° undulating smooth clean discontinuity														-	
Same on surfaces S	-										90° undulating r	52: Weak greenish grey sil	tstone.	-	
21.50 50 D 21.50 50 D 21.50 50 D 22.40 51 D 22.40 51 D 22.40 Image: Progress and Water Observations Date Time Borehole Depth De													lie Clay	-	
21.50 50 D 21.50 50 D 21.50 50 D 21.50 50 D 22.00-23.50 D 22.00-23.50 Solution pit + Plant Dando 3000 + Drilled Jonny Hutt + Logged JAlton + Checked [1.278]					0.5	0.5	60				19.60-19.7		n clean	-	
21.50 50 D 300	•				95	95	00					70m: 25° undulating amouth	oloon	-	
22.00-23.50 Boring Progress and Water Observations Borehole Depth Time Borehole Depth Borehole Depth Borehole Depth Borehole Depth D	•										discontinuity	_		-	
Seming Progress and Water Observations Chiselling / Slow Progress	21.50	50	D								19.84-20.1	6m: 85° to 90° undulating s	smooth	(2.78)	
Very weak to weak thinly to medium bedded reddish brown MUDSTONE. GRADE II. Bedding fractures: Closely to medium spaced, 0° to 5°, undulating, rough, clean. (MERCIA MUDSTONE GROUP) 22.40 51 D Boring Progress and Water Observations Borehole Depth De	•										clean discontinu	lity intersected by 80° und	ulating	† ` · · · /	
reddish brown MUDSTONE, GRADE II. Bedding fractures: Closely to medium spaced, 0° to 5°, undulating, rough, clean. (MERCIA MUDSTONE GROUP) 20.85-20.88m: 30° undulating smooth clean discontinuity 20.91-20.93m: 10° planar rough discontinuity with 1mm thick calcite vein. Boring Progress and Water Observations Date Time Borehole Casing Depth Depth Depth Depth Depth To Depth Depth Depth All dimensions in metres Scale: 1:25 Method Inspection pit + Plant Dando 3000 + Drilled Jonny Hutt + Logged JAlton + Checked	•												nedded	-	
Bedding fractures: Closely to medium spaced, 0° to 5°, undulating, rough, clean. (MERCIA MUDSTONE GROUP) 20.85-20.88m: 30° undulating smooth clean discontinuity 20.91-20.93m: 10° planar rough discontinuity with 1mm thick calcite vein. Boring Progress and Water Observations Date Time Borehole Casing Depth	•												Jeuueu	<u> </u>	
Boring Progress and Water Observations Date Time Borehole Depth D					L ↓	L ↓	L ↓						ced, 0°		
Boring Progress and Water Observations Date Time Borehole Depth D	22.00-23.50				•	A	A							[
Boring Progress and Water Observations Date Time Borehole Depth Dept											20.85-20.8	310NE GROOP) 38m: 30° undulating smooth	n clean		
Boring Progress and Water Observations Date Time Borehole Depth D	.				100	100	65				discontinuity.	9			
Boring Progress and Water Observations Date Time Borehole Casing Depth	.						1 1				20.91-20.9	3m: 10° planar rough discor	ntinuity		
Date Time Borehole Casing Depth Depth Depth Depth Trom To Duration (hh:mm) Date Time Borehole Depth Depth Depth Depth From To Duration (hh:mm) Duration (hh:mm) Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Dep	22.40	51	D								WILL THEFT CHICK (DAIOILE VEIII.			
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Method Inspection pit + Plant Dando 3000 + Drilled Jonny Hutt + Logged JAlton + Checked	Date 7	Time		0	Diam	eter		- 11	From			Jonath	.5.110		
Method Inspection pit + Plant Dando 3000 + Drilled Jonny Hutt + Logged JAIton + Checked			Dep	ли рертп	(mr	n)	⊃ept	11		+	(-			
Method Inspection pit + Plant Dando 3000 + Drilled Jonny Hutt + Logged JAIton + Checked															
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Method Inspection pit + Plant Dando 3000 + Drilled Jonny Hutt + Logged JAIton + Checked															
Method Inspection pit + Plant Dando 3000 + Drilled Jonny Hutt + Logged JAIton + Checked															
Method Inspection pit + Plant Dando 3000 + Drilled Jonny Hutt + Logged JAIton + Checked															
				1						Ţ					5
					_					Dri	lled Jonny Hutt + : Luke	Logged JAlton + By: RSenior	Checke By:	ed	

		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	rogress	General	Domorl	10	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	15	
3													
2													
; 5										All dimensions in metres	Scale:	1:25	
	Method Jsed:	Cable Pe	tion pit + ercussion -	Plan Used		ando 3000 cchio GEC		Ву:	ny Hutt + Luke	Logged JAlton + By: RSenior	Checked By:		AGS

							_				
Contract:					Client:			Boreho	le:		
	EMG Pha	ise 2					SEGRO			BHO)5
Contract Ref	•	Start:	09.09.22	Ground	Level (m AOE)):	National Grid Co-ordinate:	Sheet:			
7	'65514	End:	14.09.22		76.91		E:446018.3 N:324889.5		6	of 1	2
D (1	Samples & Tes	ting	Mecha	nical Lo	g ≅ - igi =				Depth	Mate	
Depth			TCRISCRI	ROD I	# [출 # 트]		Description of Strata		(Thick	Grap	blic

			Liiu.	17.0	J.22	<u> </u>		_		17700101011102700010		O 12
5 (1		Samples	& Testing			anical		e.			Depth	
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	Log ⊗ Backfill ⊗ Backfill ⊗ III	Water		Description of Strata	(Thick ness)	Graphic Legence
23.00-23.23 23.50-25.00 23.50-24.18	3 52	C D C	Results	93	93	65	NI 120 300	A line	with 1mm 21.18 with 1mm 21.18 21.24 21.4 discontinu 22.27 Very weareddish br Bedding f to 5°, und (MERCIA (stratum of Bedding undulating (MERCIA 23.4 discontinu Very weas SILTSTO Bedding undulating (MERCIA 23.4 discontinu Very weas SILTSTO Bedding undulating (MERCIA 23.4 discontinu Very weas SILTSTO Bedding undulating (MERCIA 24.38 mudstone 24.38 mudstone	28-22.64m: 75° to 85° undulating roupped clean discontinuity. 7-22.39m: Weak grey siltstone. ak to weak thinly to medium bedder frown MUDSTONE. GRADE II. fractures: Closely to medium spaced, lulating, rough, clean. MUDSTONE GROUP) 20 yeak thinly bedded light groups. MUDSTONE GROUP) 30 yeak thinly bedded light groups. MUDSTONE GROUP) 40-23.45m: 40° undulating rough clean. MUDSTONE GROUP) 40-23.45m: 40° undulating rough clean. MUDSTONE GROUP) 23.72-23.84m: Moderately weak grouph, clean. MUDSTONE GROUP) 23.72-23.84m: Moderately weak grouph, clean. MUDSTONE GROUP) 3-24.41m: Extremely weak reddish broed. The stremely weak reddish broed.	ity	X
Bo	oring I	Boreh	0	Boreh Diame (mm	ole eter	Wate	Fro			General Re All dimensions in metres Sca		

<u> </u>		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	Progress	General	Domor	lco.	
asiminor	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remai	KS	
JIIIce - Co													
Biancii													
ouis Liu,										All P		4.0-	
ructurar	Method Used:		tion pit +	Plan • Use		ando 3000 acchio GEC		 Drilled Jor By:	 ny Hutt + Luke	All dimensions in metres Logged JAlton + By: RSenior	Scale: Checked By:	1:25	AGS

BOREHOLE LOG

Contract:				Client:		Borehole	e:		
EMG Pha	se 2				SEGRO			В	H06
Contract Ref:	Start:	28.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	10.10.22		80.29	E:446038.9 N:325052.6		1	of	12

L		05	717	Ena:	10.1	0.22			00.29				E.440030.9 N.325052.6		or 12
ſ			Sample	s & Testing	ı	Mecha	anical	Log	<u>, o</u>	∞ .	, ₆	_		Depth	Material
	Depth (m)	No		Results		SCR	RQD (%)	If (mm)	Flush Returns & Details	Backfill	mentati	Water	Description of Strata	(Thick ness)	Graphic Legend
Ī											5		TOPSOIL	- (0, 20)	7 <u>11</u> 8. 7 <u>71</u> 8. 7
	0.10 0.10-0.20	1 2	D B								38			(0.30)	1. 7.1 7.1.
	0.10-0.20	101	ES							28	100		0.50	0.30	<u> </u>
-													Stiff fissured grey, mottled brown, slightly sandy slightly gravelly CLAY with pockets	-	
-													of chalk. Sand is fine to coarse. Gravel is	-	
2													fine to coarse subangular to subrounded of mixed lithologies including sandstone,	-	
1	0.70	3	D										siltstone and quartz.	-	<u></u>
:	0.70-1.00	4	В										·	-	
ash@sons.co.an. 111 2/22 10:02 100	0.80	102	ES												
3														_	
	4.00	_												-	
	1.20 1.20-1.50	5 6	D UT _(UT100)	150 blows										-	
-	1.20 1.00	ľ	(01100)	100% recovery										-	
	1.50-1.60	7	D											-	
5 -														(2.70)	
5														-	
	1.80	8	D												
Soo, web. www.solis.co.uk, Elligii.	_													_	
	2.00-2.45 2.00-2.45	10	SPT DSPT	N=16										-	
722	2.00-2.45	11	B											-	
ź														-	
av. 013/														-	
														-	
.002200,															
	2.70	12	D											_	<u> </u>
2														-	
<u>.</u>	3.00-3.45	12	UT _(UT100)	150 blows									Firm to stiff fissured dark grey slightly	3.00	
				0% recovery									sandy gravelly CLAY. Sand is fine to	-	
2	3.00-3.45	14	В										coarse. Gravel is subangular to	-	
;													subrounded fine to coarse of mixed lithologies including sandstone, siltstone,	-	
,													mudstone and occasional chalk.		<u> </u>
- 1														-	
3	0.70	4-	_											-	<u> </u>
<u> </u>	3.70	15	D											-	
														-	
, , ,	4.00-4.45		SPT	N=15										-	
	4.00-4.45	17	DSPT											-	<u> </u>
	4.00-4.45	18	В												
ouclies, I out y out out, desired a, west															<u> </u>

ш.													
The		Boring Pro	ogress and	Water Ob	servations		Chise	lling / Slow	Progress	Canaral	Damarl	,	
eford:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remark	S	
astl	2 4.10		Depth	Depth	(mm)	Depth			(1111.111111)	Position cleared using C	AT and Conn		
Ö	28/09/22	18:05	8.00	7.50	200	Dry	18.00	18.50	01:00	2. Hand dug inspection pit		ıy.	
tice	29/09/22	07:44	8.00	7.50	200	Dry				3. Borehole drilled using 20		and too	ols.
ַסַ	29/09/22	17:48	18.50	18.50	200	Dry				4. SPT hammer AR3104-2			
anc	03/10/22	12:00	18.50	0.00	200	6.20							
ž,	03/10/22	16:30	18.50	17.00	200	Dry							
무	04/10/22	08:30	18.50	17.00	200	15.50							
oils	04/10/22	17:00	30.80	None	146	-							
<u>ه</u>										All dimensions in metres	Scale:	1:25	
ctur	Method		tion pit +	Plan		ando 3000			nny Hutt +	Logged DNeylon +	Checked		
2	Used:	Cable Po	ercussion -	+ Use	d: Coma	cchio GFC	0 601	Bv: S	am Carter	Bv: RStan	Bv:		MAG



BOREHOLE LOG

Contract:				Client	t:				Borehol	e:		
EMG Pha	se 2							SEGRO			В	H06
Contract Ref:	Start:	28.09.22	Groun	d Leve	l (m A	AOD):	1	National Grid Co-ordinate:	Sheet:			
765514	End:	10.10.22		80	.29			E:446038.9 N:325052.6		2	of	12
											-	

	7 00:	U 1 T	End:	10.1	U.ZZ			00.29			E.446036.9 N.323032.6		or 12
		Sample	s & Testing	ı	Mecha	nical	Log	s =	∞	<u>_</u>		Depth	Material
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfil Instru mentati	Water	Description of Strata	(Thick ness)	Graphic Legend
4.70 - 5.00-5.45	19	D UT _(UТ100)	110 blows 100% recovery				,				Firm to stiff fissured dark grey slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of mixed lithologies including sandstone, siltstone, mudstone and occasional chalk. (stratum copied from 3.00m from previous sheet)	-	
- - - 5.45 -	21	D										-	
5.70	22	D										-	
6.00-6.45 6.00-6.45 6.00-6.45	24 25	SPT DSPT B	N=18									-	
- - - - - -												-	
7.30	26	D										-	
7.50-7.95	27	UT _(UT100)	91 blows 100% recovery									-	
-7.95-8.05 - - - -	28	D										-	
8.70	29	D										-	

		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	rogress	General	Domor	ko	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remai	KS	
, -			Ворин	Ворин	(11111)	Ворин							
										All dimensions in metres	Scale:	1:25	
)	ethod sed:	Cable Pe	ction pit + ercussion -	Plan Used		ando 3000 icchio GEC	I		ny Hutt + m Carter	Logged DNeylon + By: RStan	Checked By:		AGS



BOREHOLE LOG

Contract:				Client:					Borehol	e:		
EMG Pha	se 2							SEGRO			В	H06
Contract Ref:	Start:	28.09.22	Ground	d Level	l (m A	OD):	1	National Grid Co-ordinate:	Sheet:			
765514	End:	10.10.22		80.	.29			E:446038.9 N:325052.6		3	of	12
											$\overline{}$	

						<u> </u>							
		Sample	s & Testing	1	Viecha	anıcal	Log	Flush Returns & Details	를 구 턴	₩.		Depth	Material
Depth				TCR	SCR	RQD	If	ets a	ckfi Istri nta	Water	Description of Strata	(Thick	Graphic
(m)	No	Туре	Results	(%)	(%)	(%)	(mm)	Set El	Ba In	>	'	ness)	Legend
9.00-9.45		SPT	N=30	,	,	(/	()	₩ ₩ ₩			Firm to stiff fissured dark grey slightly		
9.00-9.45	31	DSPT	14-30								sandy gravelly CLAY. Sand is fine to	-	
9.00-9.45	32	B									coarse. Gravel is subangular to	L	<u>-</u> -
9.00-9.45	32	"									subrounded fine to coarse of mixed		<u></u>
<u> </u>											lithologies including sandstone, siltstone,	Ī	
-											mudstone and occasional chalk.	-	<u> </u>
-											(stratum copied from 3.00m from previous	-	<u></u>
L											sheet)		
											Silecti	(13.40)	
ļ												(,	<u></u>
-												-	
-												-	
L												L	<u></u>
ļ												-	
 												-	<u> </u>
		_										-	<u> </u>
10.30	33	D										L	<u></u>
													[-
10.50-10.95	34	UT ((T400)	150 blows									-	<u> </u>
- 10.00] .	(01100)	89% recovery									-	<u> </u>
-												-	
													<u>- </u>
10054405													·
10.95-11.05	35	D										-	- ::
-												-	<u></u>
-												_	<u> </u>
L													
												-	
-												-	<u></u>
-												-	
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11.70	36	D											<u> </u>
ſ													
<u> </u>												-	
1200 1245		ерт	N-07									-	<u> </u>
12.00-12.45 12.00-12.45	30	SPT DSPT	N=27									-	· • • • •
12.00-12.45	30	B										L	··
12.00-12.40	1 33	"											-
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13.30	40	D										t	·•
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		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	rogress	General	Domor	ko	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remai	KS	
, -			Ворин	Ворин	(11111)	Ворин							
										All dimensions in metres	Scale:	1:25	
)	ethod sed:	Cable Pe	ction pit + ercussion -	Plan Used		ando 3000 icchio GEC	I		ny Hutt + m Carter	Logged DNeylon + By: RStan	Checked By:		AGS



BOREHOLE LOG

Contract:		Client:		Borehole	e :		
EMG Ph	ase 2		SEGRO			BH	106
Contract Ref:	Start: 28.09.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End: 10.10.22	80.29	E:446038.9 N:325052.6		4	of	12

		Sample	s & Testing	N	Mecha	anical	Log	s s	∞ _ ნ			Depth	Material
Depth (m)	No		Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfill Instru mentati	Water	Description of Strata	(Thick ness)	
13.50-13.80		UT _(UT100)	150 blows 83% recovery								Firm to stiff fissured dark grey slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of mixed lithologies including sandstone, siltstone, mudstone and occasional chalk. (stratum copied from 3.00m from previous sheet) 13.90m: sandy.	-	
14.70	43	D										- - -	
15.00-15.45 15.00-15.45 15.00-15.45	45	SPT DSPT B	N=35									- - -	
-												- - - -	
16.40	47	_									Stiff to your stiff laminated grow slightly	16.40	
16.40 16.50-16.80	47 48	D UT _(UT100)	150 blows 67% recovery								Stiff to very stiff laminated grey slightly sandy SILT. Sand is fine.	- -	* * * * * * * * * * * * * * * * * * *
16.80-16.90	49	D										- (0.90) - - -	× · · × · × · × · × · × · × · × · × · ×
17.20	50	D									Stiff to very stiff reddish brown gravelly sandy silty CLAY. Sand is fine. Gravel is angular to subangular fine to coarse of mudstone lithorelics. Occasional pockets of grey siltstone. (MERCIA MUDSTONE GROUP)	17.30	× × × × × × × × × × × × × × × × × × ×

		Boring Pro	ogress and	Water (Observation	ıs	Chisel	ling / Slow F	Progress	Conoral	Domor	l.o	
	Date	Time	Borehole	Casing	' Diamete	r	From	То	Duration (hh:mm)	General	Remai	KS	
į L			Depth	Depth	(mm)	Depth	-		, ,				
í													
ا د													
5 _										All dimensions in metres	Scale:	1:25	
) I	Method Jsed:		tion pit +		_	Dando 3000 nacchio GE		Drilled Jon Bv: Sa	ny Hutt + m Carter	Logged DNeylon + Bv: RStan	Checked Bv:		Mes

BOREHOLE LOG

<i>9</i> -											DOILLI			
Contract:							Clie	ent:				Boreho	le:	
		EMC	3 Phase 2								SEGRO			BH06
Contract Ref	:		Start:	28.09	9.22	Grour	nd Le	evel (m	AOD):		National Grid Co-ordinate:	Sheet:		
7	765514			10.10	0.22		8	30.29			E:446038.9 N:325052.6		5	of 12
	Samples & Te			N	/lecha	anical L	.og	s =	≈ ' P	<u>~</u>			Depth	Material
Depth (m)	Depth		Results	TCR (%)	SCR (%)	RQD (%) (If mm)	Flush Return & Deta		Wate	Description of Strata		(Thick ness)	Graphic Legend
18.00-18.26	· / / / /		10,15/24,26								Stiff to very stiff reddish brown	gravelly		<u>• • • • • • • • • • • • • • • • • • • </u>

	Donth		Samples	s & resung	1	viecna	ırııcaı	Log	l sis	# ÷ igi	je.		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Back Insti nenta	Water	Description of Strata	(Thick ness)	Graphic Legend
	18.00-18.26		SPT	10,15/24,26 for 60mm	(70)	(70)	(70)	(11111)	шш∞			Stiff to very stiff reddish brown gravelly sandy silty CLAY. Sand is fine. Gravel is	- '	• • •
	- 18.00 - 18.26 ₋ 18.00 - 18.50	52 53	DSPT B									angular to subangular fine to coarse of mudstone lithorelics. Occasional pockets of	-	
2 TC9	- - 10 EO 10 00				_	_	_					grey siltstone. (MERCIA MUDSTONE GROUP)	18.50	<u></u>
2 - 10:3;	18.50-18.80 (0:02) 18.50-18.72		SPT	8,17/34,16	100	T 50	T 0		Air+Mist (Brown)			sheet) Extremely weak reddish brown	(0.40)	
11/12/2	_ _ 18.50-18.72		DSPT	for 30mm	*	*	+		A E			MUDSTONE, recovered as angular to subangular gravel with occasional	18.90	
.co.uk.	18.55-18.70 -18.80-20.30 - (0:03)		С									ragments of greenish grey siltstone. GRADE III. (MERCIA MUDSTONE GROUP)	(0.40)	
(@soils.	-											Extremely weak reddish brown MUDSTONE. GRADE II.	19.30	
I E LOG - A4F 7053 14, EAST MILLAND AIRFORT.GFD - 7 10 0 1. Vest Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 10:32 TC9	19.30-19.50	57	С						ist m)			Fractures: Closely spaced, randomly orientated, smooth, undulating, with occasional black staining along some		
.co.uk, E	-				93	40	10		Air+Mist (Brown)			surfaces. (MERCIA MUDSTONE GROUP)		
ww.soils	-											Extremely greenish grey fine to medium grained SANDSTONE with frequent fine to	_	
Web: w	-											coarse sand sized vugs. (MERCIA MUDSTONE GROUP) 19.70-19.75m: Extremely weak reddish	(4.65)	
52299,	-											brown MUDSTONE with rough planar fractures either side up to 5mm infilled with	- (1.65) -	
01977-	20.30-21.80 (0:06)				1	*			Ť.			sandy clay 19.75m: Verging towards a very weak to medium strong and no vugs.	-	
55, Fax:	- ` `											20.10-20.30m: Becoming very weak reddish brown mudstone.	-	
7-5522	- -												-	
. 0197	-								st (-				20.95	
J. Tel	21.00-21.15	58	С		67	46	18		Air+Mist (Brown)			Very weak reddish brown MUDSTONE. GRADE II.	(0.30)	
/F10 1N	-								 			Fractures: Closely spaced, randomly orientated, with yellow staining on surfaces.	21.25	
hire, V	-											(MERCIA MUDSTONE GROUP) 20.95m: Reddish brown sandy clay.	21.40	·····
t Yorks	-											Very weak greenish grey fine to medium grained SANDSTONE.	(0.40)	
rd, Wes	-											Bedding fractures: Closely spaced, planar, with yellow staining on surfaces. (MERCIA MUDSTONE GROUP)	21.80	
ou i Frijversion: vo_u/ Log comircos Potteries, Pottery Street, Castleford, V	21.80 - 23.30 (0:04)								🕴 🗌			Very stiff reddish brown slightly sandy slightly gravelly CLAY with occasional fine	-	× × × × × × × × × × × × × × × ×
O/ LO	-				93	27	15		Air+Mist (Brown)			to medium gravel size pockets of greenish grey silt. GRADE IVa.	(0.60)	× × × × × × × × × × × × × × × × × × ×
ottery	-				93 				- Air-			MÉRCIA MUDSTONE GROUP)	_	
jversic ries, P	-											Extremely weak greenish grey SILTSTONE interspersed with reddish brown mudstone verging towards a silt	22.40	× × × × × × × ×
Potte										r •□ • 1		11 DIOWIN MINISTER VOIGING TOWARDS & SIRE	L	

	Boring Pro	ogress and	Water Ob	servations		Chisel	ing / Slow F	rogress	General	Domor	ko	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remai	K5	
			•									
,												
									All dimensions in metres	Scale:	1:25	
Method Used:		tion pit + ercussion ·	Plar + Use		ando 3000 cchio GEO			iny Hutt + m Carter	Logged DNeylon + By: RStan	Checked By:	1.25	AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514 EAST_MIDLAND_AIRPORT GPJ - v10_01. Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552256, Fax: 01977-552299, v

BOREHOLE LOG

Contract:			Client:		Boreho	ole:		
EMG Pha	ase 2			SEGRO			BH)6
Contract Ref:	Start:	28.09.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	10.10.22	80.29	E:446038.9 N:325052.6		6	of 1	2
Samples & Te	sting	Mecha	anical Log ∞ 5	_		Denth	Mate	orial

		014	Ena:	10.10	V		0U.Z	_		E.440030.9 N.323032.0	0	or 12
		Samples	& Testing	ı	Mecha	anical Log	(0.5	ა ∞ , ნ	_		Depth	Materia
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD If (%) (mm	Flush	& Details Backfill & Instrumentation	Water	Description of Strata	(Thick ness)	Graphic Legence
22.90-23.05	59	С		93	27	15	Air+Mist (Brown)			interspersed with clay. (MERCIA MUDSTONE GROUP) Very stiff reddish brown sandy CLAY. Sand is fine and derived from mudstone and siltstone. GRADE IVa. (MERCIA MUDSTONE GROUP) (stratum copied from 22.40m from previous sheet) Extremely weak greenish grey	22.80	× × × × × × × × × × × × × × × × × × ×
23.30-24.80 (0:05)					X	*	X			SILTSTONE thinly interbedded with reddish brown MUDSTONE. (MERCIA MUDSTONE GROUP) Very weak reddish brown MUDSTONE with occasional fine to medium gravel size pockets of greenish grey siltstone. GRADE II.	- - - -	
				97	59	14	Air+Mist (Brown)			Bedding fractures: Medium to closely spaced, rough, undulating. (MERCIA MUDSTONE GROUP) 23.35m: Recovered as sandy fine gravel of siltstone and mudstone 23.60-23.70m: Greenish grey siltstone.	- - - -	
24.50-24.65	60	С									(2.80)	
24.80-26.30 (0:05)				*	*	*	*				- - -	
				100	48	0	Air+Mist (Brown)			25.25-25.30m: Greenish grey siltstone. 25.35-25.40m: Greenish grey siltstone.	- - -	
25.85-25.95	61	С								Weak to medium strong greenish grey thinly cross laminated SANDSTONE. (MERCIA MUDSTONE GROUP) Extremely weak to very weak reddish	- 25.85 - -26.05 -	
26.30-27.80 (0:05)				+	*	*	st			brown MUDSTONE with occasional fine to medium gravel size pockets of greenish grey siltstone. GRADE II. (MERCIA MUDSTONE GROUP) 26.35-26.55m: Interspersed with	- - -	
				100	77	57	Air+Mist (Brown)			laminae and lenses (<10mm) of greenish grey siltstone.	(1.80)	

		Boring Pro	ogress and	Water Ob	servations		Chisel	ing / Slow F	Progress	General	Domorl	10	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	NS	
3													
5										All dimensions in metres	Scale:	1:25	
	ethod sed:	Cable Pe	tion pit + ercussion -	Plan Used		ando 3000 cchio GEC			ny Hutt + m Carter	Logged DNeylon + By: RStan	Checked By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552256, Fax: 01977-552299, v

BOREHOLE LOG

Contract:					Client:				Boreho	ole:		
	EMG Pha	se 2						SEGRO			Bł	H06
Contract Re	f:	Start:	28.09.22	Groun	d Level (m A	(OD):	١	National Grid Co-ordinate:	Sheet:			
•	765514	End:	10.10.22		80.29			E:446038.9 N:325052.6		7	of	12
	Samples & Tes	ting	Mecha	anical L	og _∞ <u>≈</u> °	ă - j j	<u>.</u>			Depth	М	aterial

		Samples	& Testing	N	Лесhа	anical	Log	v.	siis	# Le &	ər		Depth	Material
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	Log If (mm)	Flush	& Deta	Backfill & Instru- mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
27.10-27.30	62	С		100	77	57		Air+Mist	(Brown)			randomly orientated, smooth, undulating, fractures. Extremely weak to very weak reddish brown MUDSTONE with occasional fine to medium gravel size pockets of greenish grey siltstone. GRADE II. (MERCIA MUDSTONE GROUP) (stratum copied from 26.05m from previous	-	
27.80-29.30 (0:05)		С		*	*	*		st	<u>(</u>			sheet) Very weak greenish grey SILTSTONE. Bedding fractures: Very closely spaced, rough, planar, infilled with clayey sand. (MERCIA MUDSTONE GROUP)27.98-28.02m: Clayey gravelly sand28.10-28.20m: Interspersed with lense (<2mm) of reddish brown clay. \(\text{\cdots}\)28.25m: Verging towards a sandy silt.	- 27.85 - - (0.55) - 28.40	X X X X X X X X X X X X X X X X X X X
29.30-30.80	9			100	87	60		Air+Mist	(Brown)			Extremely weak reddish brown MUDSTONE with occasional fine to medium gravel size pockets of greenish grey siltstone. GRADE II. (MERCIA MUDSTONE GROUP) 28.80-28.83m: Sandy clay 28.83-28.83m: Sandy clay 29.08-29.19m: Weak thickly laminated siltstone.	[(1.15)	
27.80-29.30 (0:05) 28.40-28.70 29.30-30.80 (0:05)	0 64	С		97	90	83		Air+Mist	(Brown)			Very weak greenish grey SILTSTONE with frequent gravel size pockets and laminae (<10mm) of reddish brown clay. (MERCIA MUDSTONE GROUP) Extremely weak reddish brown MUDSTONE with occasional fine to medium gravel size pockets of greenish grey siltstone. GRADE II. (MERCIA MUDSTONE GROUP) 30.40-30.45m: Sandy clay.	- 29.55 - (0.40) - 29.95 	× × × × × × × × × × × × × × × × × × ×
				•	•	•			1			Borehole terminated at 30.80m depth.	30.80	

		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	rogress	Conora	l Remar	·ko	
Г	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	Genera	Remai	K5	
						-							
										All dimensions in metre	s Scale:	1:25	
	Method Inspection pit + Plant Dando 300 Used: Cable Percussion + Used: Comacchio G								ny Hutt + m Carter	Logged DNeylon + By: RStan	Checked By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web.

Contract:				Client:		Borehole	:	
EMG Pha	se 2				SEGRO			BH07
Contract Ref: Start: 21.09.22 Grou				d Level (m AOD):	National Grid Co-ordinate:	Sheet:		
765514	End:	26.09.22		87.23	E:445957.0 N:325334.7		1	of 11

[Sample	s & Testing	ı	Mecha	nical	Loa				.	
	Depth		Janpie	J & Tooling		SCR			Backfill	Water	Description of Strata	Depth (Thick	Material Graphic
	(m)	No	Туре	Results	(%)	(%)	(%)	lf (mm)	Ba	Š	Description of ottata	ness)	Legend
ı	0.00	1	D		. ,	` ,	. ,	,			TOPSOIL	0.10	7/1/N. 7/1/N. 7
	0.00 - 0.10 - 0.10	3 4	B D								Very stiff orangish brown slightly gravelly sandy		* · × · ×
	0.10	6	В								SILT. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of mixed lithology	(0.30)	× °× ×
-	0.20	5	ES								h including quartzite, metamorphic rock, sandstone	0.40	*ox*^ *o
2	0.40 0.40-1.00	7 9	D B								and rare mudstone.	-	× ·× ×
- 10:33 C9	0.50	2	ES								Stiff to very stiff reddish brown slightly gravelly sandy SILT. Sand is fine to coarse. Gravel is	_	× × × ×
	. 0.50	8	ES								angular and subangular fine to coarse of	-	× × × ×
77/71/17											mudstone. Occasional pockets of grey fine grained siltstone.		× · × ×
- 1	_										(MERCIA MUDSTONE GROUP)		× · × ×
s.co.uk.	1.00	10	ES									-	× · × × × × ×
Solls	1.20	11	D									-	^ × ^ ×
ask@solls.	1.20-1.65		SPT	N=36								-	*°
Email:	1.20-1.65 1.20-1.70	12 13	DSPT B						(22)			_	× × · × · ×
	. 1.20-1.70	13	В						///			-	×°×× ×°
solls.co.uk,									///				× × ×
SOIIS												-	× · · × · × ·
*												-	· × · · ×
web:	2.00-2.45		SPT	N=49								_	*°. × °°
, 662	2.00-2.45	15	DSPT						22			-	× × × ×
7295	2.00-2.50	16	В						1//				*° . × . °
77610									///				* .* ° ×
rax: o		47	_									-	*°×*, *°
	2.50	17	D						///			(4.45)	× × × ×
01977-552255,	-											-	× * .
-//6	-											_	· ×· × ×
	_								22				×° × °
WF10 1NJ. Lel:	3.00-3.45 3.00-3.45	18	SPT DSPT	N=50					///			_	× × ×
	3.00-3.43	19	В						///			-	^°×
- 1	-											-	x°.×
Yorksnire	-											-	× × × × × ×
York	3.50	20	D									-	× × × ×
Vest													× · × ×
ora,	.											-	× · × × × × × × × × × × × × × × × × × ×
stiler	.											-	× × ×
ا ت	- 4.00 - 4.31		SPT	11,14/19,24,7				A	///:			-	× × × × × × × × × × × × × × × × × × ×
Stre	-			for 28mm					///			-	× ·× ·×
ottery	4.00-4.45 4.00-4.50	21 22	DSPT B					NI NI				-	* ° · × * ° · × * ° × * * °
teries, Pottery Street, Castleford, Wes	- 1.00 -1 .00							200					* × * *
erie													,°×, , ,°

											×, ×, ×
	Boring Pr	ogress and	Water Ob	servations		Chise	lling / Slov	/ Progress	Canan	al Damas	-l
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)		al Remai	
			·		·	4.30	4.50	00:30	Position cleared usir Hand dug inspection Borehole drilled usin Groundwater struck after 20 minutes. Borehole backfilled v completion.	pit to 1.20m. g 200mm casir g 150mm tools at 11.00m. Ro	ng and tools. and casing. se to 8.90m
									All dimensions in met	res Scale:	1:25
Method Used:	Entra inoposition pit						Drilled By:	Martin	Logged JAlton + By: RStan	Checked By:	AGS



BOREHOLE LOG

Contract:				(Client:				Boreho	ole:	
	EMG Ph	ase 2						SEGRO			BH07
Contract Re	f:	Start:	21.09.22	Ground	Level (m	AOD)	:	National Grid Co-ordinate:	Sheet:		
	765514	End:	26.09.22		87.23	3		E:445957.0 N:325334.7		2	of 11
	Samples & To	estina	Mecha	anical Lo	a =					Donth	Material

			Samples	s & Lesting		vlecha	anıcal	Log	l ≣	<u></u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill	Water	Description of Strata	(Thick ness)	Graphic Legend
	4.50-5.50 4.50-4.67		SPT	19,6/42,8								_	* · · × · · ·
	- 4.50-4.95	24	DSPT	for 5mm								4.85	*°× * *°
22 - 10:33 TC9	- - -				45 	29	20	NI NI 200			Extremely weak reddish brown, local thickly laminate, MUDSTONE. Occasional pockets and laminae of very weak to weak fine grained siltstone. GRADE IVb. Bedding fractures: Closely to widely spaced,	- - -	
11/12	5.30-5.50	25	С								planar, rough, locally with clay infill. (MERCIA MUDSTONE GROUP)		
ညီsoils.co.uk.	5.50-7.00				*	*	*	*			4.95-5.21m: NI, recovered as gravel. 5.14-5.50m: frequent grey silstsone. 5.29m: clay infill (<3mm). 5.50-5.65m: AZCL	-	
mail: ask@	-										5.65-6.17m: NI, recovered as gravel.	_	
ls.co.uk, E	-							NI			6.17-6.36m: thinly and thickly laminated.	(2.45)	
vww.so	-				90	37 	19	NI 580					
99, Web: w	-								/// /// ///		6.42-6.54m: NI, recovered as gravel of mudstone and siltstone.	-	
1977-5522	- - - 6.86-7.00	26	С						/// /// /// ///		6.72-6.86m: thinly and thickly interlaminated with weak grey siltstone.	-	
Fax: 0	7.00-8.50				*	*	*	*			7.00-7.12m: grey siltstone	_	
552255	-											7.30	
vest Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 10:33 TC9	7.30-7.46	27	С		100	43	36	NI NI 30			Extremely weak to weak reddish brown MUDSTONE. Fractures: Very closely to closely spaced, randomly orientated, planar, rarely undulating, smooth and rough, with abundant black staining. (MERCIA MUDSTONE GROUP)		
Potteries, Pottery Street, Castleford, W	- - - 8.50-12.00				<u> </u>	 	X	¥.				-	
ery Stre	-							NI NI				(2.78)	
tteries, Pott	-				43	0	0	NI 20			8.88-8.99m: grey siltstone.	-	
Pot													

	Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow I	Progress	General	Domork	0
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General		S
		-			-						
									All dimensions in metres	Socia: 4	.05
Method Inspection pit + Plant Dando 300 Jsed: Cable Percussion + Used: Comacchio G					ando 3000 cchio GEC		⊥ Drilled By:	Martin	Logged JAlton + By: RStan	Checked By:	:25 AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01. Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web:

BOREHOLE LOG

Contract:					Client	:				Boreho	ole:		
	EMG Pha	se 2							SEGRO			В	H07
Contract Ref		Start:	21.09.22	Ground	Leve	l (m <i>l</i>	AOD)	:	National Grid Co-ordinate:	Sheet:			
7	65514	End:	26.09.22		87	.23			E:445957.0 N:325334.7		3	of	11
	OI 0 T4			:									

			Sample	s & Testing		Med	cha	nica	Log	=			Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SC (%	CR 6)	RQE (%)	If (mm)	Backfill	Water	Description of Strata	(Thick ness)	Graphic Legend
11/12/22 - 10:33 TC9	9.00-9.25	28	С						NI NI 20			Extremely weak to weak reddish brown MUDSTONE. Fractures: Very closely to closely spaced, randomly orientated, planar, rarely undulating, smooth and rough, with abundant black staining. (MERCIA MUDSTONE GROUP) (stratum copied from 7.30m from previous sheet)	- - - - -	
o.uk.	_ 10.00-11.00				A		-	•	 			10.00-10.17m: NI.	10.08	
ww.soils.co.uk, Email: ask@soils.	- - 10.16-10.44 - - - -	29	С		43 100	8,		0 73	NI NI 250			Extremely weak thinly and thickly laminated MUDSTONE. With widely spaced laminae and pockets of grey siltstone. Occasional grey reduction spots (< 5mm). GRADE III. Bedding fractures: Widely and very widely spaced, 0-10°, planar, rough, clean. (MERCIA MUDSTONE GROUP) 10.44-10.45m: grey siltstone.	- - - - -	
977-5522 <u>9</u> 9, Web: w	11.00-12.50 _ 11.10-11.40 _		С		*			*	 X			11.00-11.03m: grey siltstone. 11.00-11.10m: NI.	(2.57)	
: LOG - A4F 703314_EA21_MIDLAND_AIRFORT.SEC - 10_0 1. st Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 10:33 TC9	-				100	2	7	21	NI NI 70			11.74-11.75m: grey siltstone 11.94-11.99m, thinkly interlaminated with grey siltstone.	- - - - - -	
or Friversion: vo_or Log Controor E Log - A+r Potteries, Pottery Street, Castleford, West Yorkshire,	- 12.50-14.00 12.50-12.65 - - - - -	31	С		87	10	0	10	NI 10 80			Extremely weak reddish brown, locally thinly laminated, MUDSTONE. Occasional pockets of grey siltstone. GRADE III. (MERCIA MUDSTONE GROUP)	- - - 12.65 - - - - - -	

2		Boring Pro	ogress and	Water O	oservations		Chisell	ing / Slow F	Progress	General	Domor	ko	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter	Water Depth	From	То	Duration (hh:mm)	General	Remai	KS	
3			Берит	Берит	(mm)	Берит			,				
2													
5													
ĺ													
2													
ō										All dimensions in metres	Scale:	1:25	
3	Method Used:		tion pit + ercussion	Plai Use		ando 3000 acchio GEC		Drilled By:	Martin	Logged JAlton + By: RStan	Checked By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01. Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552256, Fax: 01977-552299, v



BOREHOLE LOG

Contract:		Client:		Borehole:		
EMG Pha	ise 2		SEGRO		BH0	7
Contract Ref:	Start: 21.09.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:		
765514	End: 26.09.22	87.23	E:445957.0 N:325334.7	4	4 of 1	1

			Sample	s & Testing	1	Mecha	anical	Log		<u>_</u>		Depth	Material
	Depth				TCR	SCR	ROD	lf	Backfill	Water	Description of Strata	(Thick	Graphic
	(m)	No	Туре	Results				(mm)	/	≥	2 333	ness)	Legend
· 10:33 TC9	-				87	10	10	NI 10 80			Extremely weak reddish brown, locally thinly laminated, MUDSTONE. Occasional pockets of grey siltstone. GRADE III. (MERCIA MUDSTONE GROUP) (stratum copied from 12.65m from previous sheet) 13.80-14.00m, AZCL.	-	
E LOG - A4F / 795514 EAST MIDLAND AIRFORT GF3 - 710, 01. est Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 10:33 TC9	- - - - 14.65-15.00 - - - - - 15.00-17.00		С					NI NI 45				- - - - -	
977-5522 <u>9</u> 9, Web: www.soils.co.u	- - - -							\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \			15.32-15.50m, thickly interlaminated with grey siltstone.	(5.85)	
14 EAST MIDLAND AIRPORT.C 1NJ. Tel: 01977-552255, Fax: 019	- - - - 16.25-16.50 - -	33	С		75	14	14	NI NI 40			16.03-16.20m, thickly interlaminated with grey siltstone.	- - - - -	
J COMPOSITE LOG - A4P 7035 Sastleford, West Yorkshire, WF10	- - - 17.00-18.50 - - -				<u> </u>	*	*	V			16.77-16.89m, thickly interlaminated with grey siltstone.	- - - - -	
1 Prjversion: v8_07 Log COMPOSII otteries, Pottery Street, Castleford, W	-				100	3	0	NI 150			17.78-17.99m, thickly laminated.	- - -	

2		Daring Dr	narooo ond	\Matar ()hoon (otion		Chico	lling / Clour	Drogross					
		BOIIIIG PI	ogress and	vvaler			Chise	lling / Slow	Progress	General Remarks				
	Date	Time	Borehole	Casin	Borehole Diamete		From	То	Duration	Octiciai	Cilian	13		
200	Date	Time	Depth	Depth	(mm)	Depth	FIOIII	10	(hh:mm)					
í														
2														
5														
ĺ														
נ כ														
ō										All dimensions in metres	Scale:	1:25		
	Method		tion pit +			Dando 3000		Drilled		Logged JAlton +	Checked		200	
- 1	Used:	Cable Po	ercussion :	+ 11.5	sed: Con	nacchio GF(O 205	l Bv:	Martin	Bv: RStan	Bv:		11.10	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552256, Fax: 01977-552299, v



BOREHOLE LOG

Contrac	ot:				Client:				Boreho	le:		
	EMG Pha	se 2						SEGRO			В	H07
Contrac	ct Ref:	Start:	21.09.22	Groun	d Level (m	AOD)):	National Grid Co-ordinate:	Sheet:			
	765514	End:	26.09.22		87.23	,		E:445957.0 N:325334.7		5	of	11
											_	

Extremely weak reddish brown, locally thinly laminated, MUDSTONE. Occasional pockets of grey siltstone. GRADE III. MERCIA MUDSTONE GROUP)	Extremely weak reddish brown, locally thinly laminated, MUDSTONE. Occasional pockets of grey siltstone. GRADE III. (MERCIA MUDSTONE GROUP)	- u	Mechanical Log 💂 👨 D	th Material
laminated, MUDSTONE. Occasional pockets of grey siltstone. GRADE III. 100 3 0 NI (MERCIA MUDSTONE GROUP)	laminated, MUDSTONE. Occasional pockets of grey siltstone. GRADE III. 100 3 0 NI (MERCIA MUDSTONE GROUP)	Depth (m)		
Extremely weak to weak reddish brown, locally thinly laminated, MUDSTONE. Occasional thin laminae of grey siltstone. GRADE II. (MERCIA MUDSTONE GROUP) 100 70 64 NI NI STONE GROUP) Extremely weak to weak reddish brown, locally thinly laminated, MUDSTONE GROUP) -(1.05) Extremely weak to weak reddish brown, locally thinly laminated, MUDSTONE GROUP) -(1.05) Extremely weak reddish brown MUDSTONE. Recover as sandy silt angular gravel. GRADE III. Fractures: Randomly orientated, planar, rough, non-intact. (MERCIA MUDSTONE GROUP)	Extremely weak readish brown, locally thinly laminated, MUDSTONE. Occasional thin laminate of grey siltstone. GRADE II. (MERCIA MUDSTONE GROUP) 100 70 64 NI NI STATE S	18 50 20 0	laminated, MUDSTONE. Occasional pockets of grey siltstone. GRADE III. (MERCIA MUDSTONE GROUP) (stratum copied from 12.65m from previous sheet) 18.27-18.37m, thickly interlaminated with grey	50
y Street, Castileford, West Yorkshire, WF10 1NJ, Tel; O1977-552255, Fax: 01977	itelord, West Yorkshire, WF10 1NJ, Tei: 01977-552256, Fax: 01977	18.50-20.0	Siltstone. Extremely weak to weak reddish brown, locally thinly laminated, MUDSTONE. Occasional thin laminae of grey siltstone. GRADE II. (MERCIA MUDSTONE GROUP) 19.18-19.30m: thinly laminated grey siltstone. Extremely weak reddish brown MUDSTONE. Recover as sandy silt angular gravel. GRADE III. Fractures: Randomly orientated, planar, rough, non-intact. (MERCIA MUDSTONE GROUP)	5)
	offerty Street, Case			

	Boring Pro	ogress and Borehole	Water Ob Casing	servations Borehole	Water	Chisel	ing / Slow	Progress Duration	General Remarks				
Date	Time	Depth	Depth	Diameter (mm)	Depth	From	То	(hh:mm)					
3													
									All dimens	ions in metres	Scale:	1:25	
Method Used:	Cable Po	tion pit + ercussion -	Plan Used		ando 3000 cchio GEC	205 By: Martin		Martin Speedie	Logged By:	JAlton + RStan	Checked By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web.

BOREHOLE LOG

Contract:				CI	lient:			Boreho	le:		
	EMG Phas	e 2					SEGRO			BH	80
Contract Ref:	S	Start:	06.09.22	Ground L	evel (m	AOD):	National Grid Co-ordinate:	Sheet:			
765	514	End:	28.09.22		88.31		E:445920.7 N:325248.3		1	of 1	15
	Samples & Testin	na	Mecha	nical Log					5 "	N 4 - 4	

			Sample	s & Testing	N	Mecha	anical	Log		_		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill	Water	Description of Strata	(Thick ness)	
	0.00 0.00-0.10 - 0.05 _ 0.10	1 3 2 4	D B ES D	1xT+1xJ+1xV							TOPSOIL	0.30	17 · 77 · 17 · 77 · 7
- 10:33 109	0.10-0.30 0.20 0.30	6 5 7	B ES D	1xT+1xJ+1xV							Stiff dark reddish brown slightly gravelly sandy SILT with low cobble content of subrounded quartzite. Sand is fine to coarse. Gravel is	- (0.60)	00 × 0 × 0 × 0 × 0
2/22 - 10:3	- 0.30-0.90 _ 0.50 -	9	B ES	1xT+1xJ+1xV							subangular and subrounded fine to coarse of mixed lithologies of sandstone, siltstone and quartzite.	(0.60)	0°×.0°0 × 0.0°0 × 0
ask@solls.co.uk. 11/12/22	0.90 - 0.90-1.20 - 1.00 - 1.00	10 12 11 5	D B ES D	1xT+1xJ+1xV							Stiff reddish brown, mottled grey, slightly gravelly sandy SILT. Sand is fine to coarse. Gravel is subangular and subrounded fine to coarse of mixed lithologies of sandstone and quartzite.	0.90	V
mall: ask(c	1.20-1.65 1.20-1.70	13 14	DSPT B									1.50	× · × · × · × · × · × · × · × · × · × ·
www.soils.co.uk, Email:	1.70 1.80	15 16	D ES	1xT+1xJ+1xV							Stiff greenish brown slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is subangular and subrounded fine to coarse of mixed lithologies of sandstone, siltstone and quartzite.	-	
299, Web: ww	2.00-2.45	17	UT									- - -	
Fax: 01977-552	2.50	18	D									- - -	
01977-552255,	2.50-3.00	19	В									- - -	
Yorksnire, WF10 1NJ. Tel: U	3.00-3.45 3.00-3.50	20 21	DSPT B									_(3.00) - -	
Castleford, West Yorkshire, W	3.50	16	D									- - -	
Street,	4.00-4.45 4.00-4.45	23	SPT UT	N=23								- - -	
e Potteries, Pottery												4.50	<u> </u>

The		Boring Pro	ogress and	Water	Observ	vations		Chisel	ling / Slow F	Progress	Conoral	Domorko
Castleford:	Date	Time	Borehole	Casir	¹⁹ Dia	orehole iameter	Water	From	То	Duration (hh:mm)	General	Remarks
astl			Depth	Dept	:h ((mm)	Depth			(1111.11111)	1 Desition algered using C	AT and Canny
Office -	06/09/22 07/09/22 07/09/22	15:30 07:30 17:00	2.00 2.00 8.50	2.00 2.00 8.50	5	150 150 150	- - -	7.80	8.00	00:30	Position cleared using C. Hand dug inspection pit Borehole drilled using 20 Groundwater struck at 8	to 1.20m. 00mm tools and casing.
ls Ľtd, Branch	27/09/22 27/09/22		17.00 30.50	Non 17.0	ie	150 150	8.40				4.55m depth after 20 mi 5. Groundwater struck at 1 6. SPT hammer AR3469-2	nutes. 9.00m depth. Fast inflow.
al Soils											All dimensions in metres	Scale: 1:25
structural	Method Used:		ercussion - ry Cored		Plant Jsed:		ndo 3000 - cchio GEO		Drilled Ber By:	Wilson + Martin	Logged RSenior + By: RStan	Checked By: AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Soils Lid, Branch Office - Castleford: The Pottery Street, Castleford, West Yorkshire, WF10 1\overline{10}. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. | 11/12/22 - 10:33 | TC9 |

BOREHOLE LOG

Contract:				Client:		Borehole	э:		
EMG Pha	se 2				SEGRO			В	H08
Contract Ref:	Start:	06.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	28.09.22		88.31	E:445920.7 N:325248.3		2	of	15

ſ			Sample	s & Testing		Mecha	nical	Log				l	
	Depth (m)	No	Туре	Results	_	SCR	RQD		Backfill	Water	Description of Strata	Depth (Thick ness)	Material Graphic Legend
	4.50 4.50-5.00 4.60	24 26 25	D B ES	1xT+1xJ+1xV							Stiff to very stiff reddish brown slightly gravelly sandy SILT. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of mudstone. Occasional pockets of grey siltstone (<300mm). GRADE IVb.	-	**
-	5.00-5.45 5.00-5.50	27 28	DSPT B								(MERCIA MUDSTONE GROUP)	-	× · · × · × · × · × · × · × · × · × · ×
	5.50	22	D									- - -	* · · · · · · · · · · · · · · · · · · ·
	6.00-6.45 6.00-6.45 6.00-6.50	30 31	SPT DSPT B	N=25								- - - (3.50)	* * * * * * * * * * * * * * * * * * *
	6.50	32	D									- - -	*
· -	7.00-7.45 7.00-7.50	33 34	DSPT B									- - -	* * * * * * * * * * * * * * * * * * *
-	7.50-7.95 7.50	35	SPT D	N=27						<u>1</u>		- - -	**************************************
-	8.00-9.50 8.00-8.45	36	DSPT		A	_	_	A			Strong light greyish green SILTSTONE. Drilling disturbed, recovered as subangular to subrounded fine to coarse gravel size fragments. GRADE II. (MERCIA MUDSTONE GROUP)	8.00 8.15 8.32	× × × × × × × × × × × × × × × × × × ×
	8.60	37	D		97	7	7	NI 20 100		<u>‡</u>	Stiff thinly to thickly laminated reddish brown silty CLAY with occasional subangular fine to medium gravel size mudstone lithorelics. GRADE IVa. (MERCIA MUDSTONE GROUP) Description of Park Sheep ntinuities are extremely closely to very closely spaced randomly orientated undulating smooth stained black.	-	

		ate Time						ing / Slow F	rogress	General	Domor	lko	
	Date	Time		Casin		Water	From	То	Duration	General	Remai	KS	
	Date	11110	Depth	Depth	(mm)	Depth	1 10111	'	(hh:mm)				
, _													
,													
										All dimensions in metres	Scale:	1:25	
) [Method Cable Percussion + Plant Used: Visual				ando 3000 acchio GE0		Drilled Ben By:	Wilson + Martin	Logged RSenior + By: RStan	Checked By:		AGS	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
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BOREHOLE LOG

Contract:				Clier	nt:				Boreho	le:		
EMG Ph	ase 2							SEGRO			В	H08
Contract Ref:	Start:	06.09.22	Ground	d Lev	/el (m	AOD)):	National Grid Co-ordinate:	Sheet:			
765514	End:	28.09.22		88	8.31			E:445920.7 N:325248.3		3	of	15
0 1 0 7												

		Samples	& Testing	N	/lecha	anical	Log	■	ē		Depth	Material
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	lf (mm)	Backfill	Water	Description of Strata	(Thick ness)	Graphic Legend
9.50-11.00				97	7	7				8.97-9.07m: Very weak light greenish grey siltstone with 85° to 90° undulating rough discontinuity with occasional black specks. Extremely weak very thinly to thinly bedded reddish brown MUDSTONE. Bedding fractures: Closely spaced, 0° to 15°, undulating, smooth, black stained, locally with a little clay smear on surfaces. GRADE II. (MERCIA MUDSTONE GROUP)	-(2.24)	
- - - - -				70	10	0				(stratum copied from 8.32m from previous sheet) 9.07-9.35m: 75° to 90° undulating smooth black stained discontinuity 9.40-10.30m: Discontinuities are very closely spaced randomly orientated undulating smooth, locally rough, black stained 9.50-9.95m: AZCL 10.29m: laminae (<2mm) of extremely weak light greenish grey siltstone.	-	
10.70	38	D								Stiff thickly laminated to very thinly bedded reddish brown silty CLAY with occasional subangular fine gravel size mudstone lithorelics. GRADE III.	10.56	xox xx
11.00-12.50				X	+	X	- - NI			(MERCIA MUDSTONE GROUP) 10.88-10.89m: Extremely weak light greenish grey siltstone with occasional black specks 11.00-11.30m: Drilling disturbed. NI, recovered as slightly gravelly clay.	- (0.74)	
11.50	39	D		77	27	27	20 100			Extremely weak to very weak very thinly to thinly bedded reddish brown MUDSTONE. GRADE II. Bedding fractures: Very closely to closely spaced, 0° to 5°, undulating, smooth and rough, clean, locally stained black. (MERCIA MUDSTONE GROUP) 11.34-11.38m: 40° undulating smooth discontinuity with <1mm clay on surfaces. 11.38-11.50m: 80° undulating rough clean	11.30	
40.50.44.00					\ _ X	\ \	-			discontinuity 11.48-11.52m: Occasional fine to medium gravel size light greenish grey siltstone lithorelicts and occasional reduction spots 11.64-11.66m: Very weak light grey sandy siltstone 11.73-11.74m: Extremely weak light greenish	-	
12.50-14.00				60	0	0				grey siltstone	(3.90)	

2		Time Jameter					Chisell	ing / Slow F	rogress	Conoro	Domo	rlco	
	Date	Time			Diameter	Water Depth	From	То	Duration (hh:mm)	Genera	Remai	K5 ———	
Š			Ворит	Ворит	(11111)	Ворит							
1													
5										All dimensions in metre	s Scale:	1:25	
	Method Used:		ercussion [.] ry Cored	+ Plar Use		ando 3000 icchio GEC		Drilled Ben By: I	Wilson + Martin	Logged RSenior + By: RStan	Checked By:	İ	AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552256, Fax: 01977-552299, Web



Contract:				Client:				Borehol	e:		
EMG Pha	se 2						SEGRO			В	H08
Contract Ref:	Start:	06.09.22	Groun	d Level (m	1 AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	28.09.22		88.31	1		E:445920.7 N:325248.3		4	of	15
										$\overline{}$	

			Samples	s & Testing	ı	Mech	anical	Log	■	je je		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill	Water	Description of Strata	(Thick ness)	Graphic Legend
-	13.60	40	D		60	0	0				stained black with frequent black specks. Extremely weak to very weak very thinly to thinly bedded reddish brown MUDSTONE. GRADE II. Bedding fractures: Very closely to closely spaced,	-	
	14.00-15.00				*	X	X	-			0° to 5°, undulating, smooth and rough, clean, locally stained black. (MERCIA MUDSTONE GROUP) (stratum copied from 11.30m from previous sheet) 13.75-14.00m: Drilling disturbed, recovered as clayey angular to subangular fine to medium gravel	-	
	14.40	41	D		145	48	30				of mudstone 14.00-14.25m: Drilling disturbed, recovered as clayey angular to subangular fine to medium gravel od mudstone 14.10-14.15m: Light greenish grey siltstone band recovered as clayey gravel 14.40-14.80m: Discontinuities are very closely	-	
	- . 15.33-15.41	42	С					-			spaced randomly orientated undulating rough and smooth locally black stained and locally with a little clay smear on surfaces. Occasional reduction spots <20mm. 14.65-15.27m: 80° to 90° undulating smooth and rough lack stained discontinuity. 15.08-15.12m: 20° Undulating smooth black	15.20	× × × × × × × × × × × × × × × × × × ×
ļ											stained discontinuity.	15.50	* * * * * * * * * *
	15.50-17.00	43	D				Ī	NI 20 100			Very weak to weak very thinly to thinly bedded light greenish grey SILTSTONE. GRADE II. Bedding fractures: Very closely to closely spaced, 0° to 10°, undulating, smooth, with 1-5mm soft clay on surfaces. (MERCIA MUDSTONE GROUP) 15.20-15.23m: Extremely weak light greenish grey siltstone.	-	
					97	9	0				Extremely weak to very weak thickly laminated to thinly bedded reddish brown MUDSTONE. GRADE II to III. Bedding fractures: Very closely to closely spaced, locally extremely closely spaced, undulating, smooth and rough, clean, with occasional clay smear on surfaces. (MERCIA MUDSTONE GROUP) 15.50-15.83m: Discontinuities are extremely closely to very closely spaced randomly orientated	-	
ŀ	_ 17.00-18.50				+	*	X				undulating smooth and rough clean with occasional black specks on surfaces.	-	
					97	63	37				16.02-16.17m: 85° to 90° undulating smooth clean discontinuity 16.32-16.62m: 85° to 90° undulating smooth black stained discontinuity 16.67-16.74m: 80° to 85° undulating smooth black stained discontinuity 16.74-16.80m: Very weak to weak thickly laminated light greenish grey siltstone 16.80-17.00m: Recovered as stiff thinly to thickly laminated reddish brown clay, possibly drilling disturbed.	-	

	Date Time 1 9 Diameter						ing / Slow F	Progress	General	Domorl	l/0	
Date	Time			Diameter	Water Depth	From	То	Duration (hh:mm)	General	Reman	NS	
			•		·							
									All dimensions in metres	Scale:	1:25	
Method Used:	24				•	Wilson + Martin	Logged RSenior + By: RStan	Checked By:		AGS		

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1N. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:33 | TC9 |



Contract:				C	Client:				Boreho	le:		
	EMG Pha	se 2						SEGRO			ВН	80
Contract Ref		Start:	06.09.22	Ground	Level (m	AOE):	National Grid Co-ordinate:	Sheet:			
7	765514 End: 28.09.22							E:445920.7 N:325248.3		5	of '	15
	Samples & Test	ting	Mecha	nical Log	9 =	_				Denth	Mat	terial

		Samples	s & Testing	N	Mech	anical	Log	■	ē		Depth	Material
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	lf (mm)	Backfill	Water	Description of Strata	(Thick ness)	Graphic Legend
 17.93-18.03	44	С		97	63	37				17.24-17.45m: 85° to 90° undulating smooth black stained discontinuity locally with a little clay smear on surfaces 17.55-17.60m: Extremely weak light greenish grey siltstone. Extremely weak to very weak thickly laminated to thinly bedded reddish brown MUDSTONE. GRADE II to III. Bedding fractures: Very closely to closely spaced, locally extremely closely spaced, undulating, smooth and rough, clean, with occasional clay	(6.40)	
				97	45	27	N		<u>*</u>	smear on surfaces. (MERCIA MUDSTONE GROUP) 15.50-15.83m: Discontinuities are extremely closely to very closely spaced randomly orientated undulating smooth and rough clean with occasional black specks on surfaces.(stratum copied from 15.50m from previous sheet) 18.14-18.28m: 80° to 90° undulating smooth lack stained discontinuity. 18.50-18.80m: Drilling disturbed, recovered as slightly clayey angular to subangular fine to coarse mudstone gravel. 18.80-19.00m: 85° undulating smooth black	-	
20.00-21.50				97	54	39	100 100			stained discontinuity		
21.15-21.35	45	С		<u> </u>	X	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	-			discontinuity with occasional black specks on surfaces 20.70-20.76m: Extremely closely to very closely spaced randomly orientated clean locally lightly black stained discontinuities 20.74-20.90m: 65° undulating rough black	- - -	
21.50-23.00				100	65	50	30 120 340			stained discontinuity 20.90-21.16m: 2 no parallel closely spaced, locally black stained discontinuities 21.28-21.42m: Band of extremely weak light greenish grey siltstone 21.50-21.90m: Drilling disturbed, recovered as clayey angular to subangular fine to coarse gravel of mudstone. Description on next sheet	21.90	× × × × × × × × × × × × × × × × × × ×

<u>D</u>		Boring Pro	ogress and	Water O	oservations		Chisell	ing / Slow F	rogress	General	Domor	ko	
Sileioid	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remai	NS	
II SOIIS Ltu, Diancii Oince - Ca			·	·						All dimensions in metres	Scale:	1:25	
Tuctura	Method Used:	24				ando 3000 acchio GEC		Drilled Ben By:	Wilson + Martin	Logged RSenior + By: RStan	Checked By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Soils Lid, Branch Office - Castleford: The Pottery Street, Castleford, West Yorkshire, WF10 1\overline{10}. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. | 11/12/22 - 10:33 | TC9 |



Contract:			Client:				Boreho	le:		
EMG Ph	nase 2					SEGRO			В	8 0H 8
Contract Ref:	Start: 06.09 .	22 Groun	nd Level (m	AOD):	National Grid Co-ordinate:	Sheet:			
765514	End: 28.09.	22	88.31			E:445920.7 N:325248.3		6	of	15

			Samples	s & Testing	ľ	Mech	anical	Log	■	jo.		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill	Water	Description of Strata	(Thick ness)	Graphic Legend
GS	22.70-23.00	46	С		100	65	50	30			Very weak very thinly to thinly bedded light greenish grey SILTSTONE with occasional very thin to thin beds of reddish brown mudstone. GRADE II. Bedding fractures: Very closely to closely spaced, 0° to 5°, undulating, rough, with a little clay smear	23.00	X X X X X X X X X X X X X X X X X X X
o.uk. 11/12/22 - 10:33	23.00-24.50 23.18-23.52 - -		С		A			120 340			on surfaces. (MERCIA MUDSTONE GROUP) (stratum copied from 21.90m from previous sheet) Very strong thickly to medium bedded light grey SILTSTONE. GRADE I. Bedding fractures: closely to medium spaced, 0°, undulating, rough, with occasional black specks	(0.55)	X X X X X X X X X X X X X X X X X X X
YORSHIRE, WF10 TNJ. 18: 01977-352235, Fax: 01977-352299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11712/22 - 10:33 109					100	74	60	NI NI 130			and staining. (MERCIA MUDSTONE GROUP) Extremely weak to very weak thickly laminated to thinly bedded reddish brown MUDSTONE with occasional thick laminae and very thin beds of siltstone. GRADE II to III. Bedding fractures: Extremely closely to closely spaced, 0° to 5°, undulating, smooth and rough, clean, locally black stained. (MERCIA MUDSTONE GROUP) 23.65-23.78m: 80° to 90° undulating rough clean discontinuity.	-(0.95) -(24.50	
//-552255, Fax: U19//-552299, vveu	24.50-26.00 24.50-24.63 - - - - -		SPT	NP	33	0	0				AZCL. (MERCIA MUDSTONE GROUP)	(1.00)	AZCL
t forkstille, Wr to thu. Tel. 0197	_ - - - _25.90 _26.00-27.50	48	D		 	*	¥	NI NI 20			Stiff thinly to thickly laminated reddish brown mottled light greenish grey CLAY. Occasional thick laminae and very thin beds of silt and extremely weak siltstone. Occasional fine to medium gravel size lithorelics. GRADE III. (MERCIA MUDSTONE GROUP)	25.50	
Poueries, Pouery Street, Castlelord, West	-				100	20	0	NI 60 200			26.13-26.23m: 40° undulating rough clean discontinuity. Extremely weak to very weak very thinly to thickly bedded reddish brown mottled grey silty MUDSTONE. GRADE II. Bedding fractures: Very closely to closely spaced, 0° to 15°, undulating, smooth and rough, clean, locally with black specks. (MERCIA MUDSTONE GROUP) Description on next sheet	26.30	

	Boring Pro	ogress and	Water Ob	servations		Chisel	ing / Slow F	Progress	General	Domorl	l/0	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	NS	
			•		·							
									All dimensions in metres	Scale:	1:25	
Method Used:	24						•	Wilson + Martin	Logged RSenior + By: RStan	Checked By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1N. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:33 | TC9 |

BOREHOLE LOG

Contract:				С	lient:			Boreho	le:		
	EMG Pha	se 2					SEGRO			В	H08
Contract Ref	:	Start:	06.09.22	Ground I	Level (m	AOD):	National Grid Co-ordinate:	Sheet:			
7	765514	End:	28.09.22		88.31		E:445920.7 N:325248.3		7	of	15
	Camples 9 Test	.i.a. a.	Maaba	nical Loa							

			Sample	s & Testing	ľ	Mecha	anical	Log	I ⊯	<u></u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill	Water	Description of Strata	(Thick ness)	Graphic Legend
	27.00	49	D		100	20	0				26.40-26.55m: 60° undulating rough black stained discontinuity 26.60-26.67m: 70° to 20° curved undulating rough clean discontinuity 26.67-26.81m: 45° undulating rough clean discontinuity 26.80-26.95m: Randomly orientated extremely	-	
.uk. 11/12/22 - 10:3	_ 27.50-29.00 - - - 27.95-28.08		С								closely spaced undulating clean discontinuities. Extremely weak to very weak very thinly to thickly bedded reddish brown mottled grey silty MUDSTONE. GRADE II. Bedding fractures: Very closely to closely spaced, 0° to 15°, undulating, smooth and rough, clean,	- - -	
.uk, Email: ask@soils.co	- - - -				90	37	25				locally with black specks. (MERCIA MUDSTONE GROUP) (stratum copied from 26.30m from previous sheet) 27.04-27.19m: 50° undulating rough clean discontinuity 27.24-27.34m: 40° undulating smooth clean discontinuity, 27.35-27.6m: Discontinuities are extremely	(4.20)	
eries, Pottery Street, Castletord, West Yorkshire, WF-10 1NJ: 16: 019 / /-5522555, Fax: 019 / /-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 10:33 1C9	- - - _ 29.00-30.50 - -				*	*	X	NI 60 200			closely to very closely spaced randomly orientated undulating smooth and rough clean 27.69-28.68m: With closely to medium spaced thin and thick laminae of Extremely weak to very weak light greenish grey siltstone 28.68-28.90m: 50° to 80° undulating rough lightly black stained discontinuity, 29.00-29.17m: Band of stiff reddish brown silty clay.	-	
I el: U I 977-552255, Fax: U I	-				90	67	42				ight greenish grey siltstone inclusions 29.36-29.40m: 50° undulating rough orangish brown stained discontinuity 29.40-29.41m: Non penetrative orangish brown stained on bedding fracture 29.86-29.91m: 15° to 20° undulating rough orangish brown stained discontinuity.	-	
ora, West Yorkshire, WF10 1NJ.	30.10-30.35 - - - - -	51	С			<u> </u>	V	V	///, ///, ///, ///,		30.44-30.50m: 40° undulating smooth discontinuity with 1-3mm soft clay on surfaces. Borehole terminated at 30.50m depth.	30.50	
eries, Pouery Street, Castleit	-											-	

		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	rogress	General	Domorl	10	
a series	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	15	
5													
ig'													
2										All dimensions in metres	Scale:	1:25	
0.00	Method Cable Percussion + Plant Dando 300 Used: Rotary Cored Used: Comacchio G							•	Wilson + Martin	Logged RSenior + By: RStan	Checked By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:33 | TC9 |

BOREHOLE LOG

Contract:				Client:			Boreho	ole:		
EMG Pha	se 2					SEGRO			BH0	9
Contract Ref:	Start:	16.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	26.09.22		74.23		E:445839.0 N:324955.9		1	of 14	4
Samples & Test	ing	Mecha	nical L	og ∞ <u>, </u>				Depth	Mate	rial

Depth (m)		Sample	s & Testing	N	/lechar	nical l	Log ∞,	و <u>.</u>			Depth	Material
				_								
` ,	No	Туре	Results	TCR	SCR F	RQD	Log Sackiii & Backiiii & Backiiii & Backiiii & Backiiiii & Backiiii & Backiiiii & Backiiiii & Backiiiii & Backiiiii & Backiiiiii & Backiiiiii & Backiiiiii & Backiiiiiii & Backiiiiii & Backiiiiii & Backiiiiii & Backiiiiii & Backiiiiii & Backiiiiiiii & Backiiiiiii & Backiiiiiiiii & Backiiiiiiiii & Backiiiiiiiiiii	nentatio Water	v valo	Description of Strata	(Thick ness)	Graphic Legend
0.00-0.00 0.00-0.20 0.10-0.10 0.20-0.20	1 3 2 4	D B ES D	1xT+1xJ+1xV	(70)	(70)	(70)				TOPSOIL	(0.40)	\(\frac{1}{2}\)\(\frac{1}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}\)\(\frac{1}\)\(\frac{1}\)\(\frac{1}\)\(\frac{1}\)\(\frac{1}\)\(\frac{1}\)\(\frac{1}\)\(\
0.20-0.40 0.30-0.30 0.40-0.40 0.40-0.80	6 5 7 9	B ES D B	1xT+1xJ+1xV							Stiff thinly laminated dark and light brown, mottled orangish brown, slightly sandy gravelly CLAY. Gravel is fine to coarse of mudstone and	0.40	
0.80-0.80	10	D	1xT+1xJ+1xV							metamorphic rock. Sand is fine to coarse.	(0.80)	- - - - - - - - - - - - - - - - -
1.00-1.00	11	ES	1xT+1xJ+1xV								-	
1.20-1.65 1.20-1.65 1.20-1.70 1.40	13 14 15	SPT DSPT B ES	N=10							Firm reddish brown slightly sandy slightly gravelly CLAY. Sand is fine and medium. Gravel is subangular and subrounded fine mudstone, sandstone and chalk.	1.20	
1.70 1.80	16 17	D ES									-	
2.00-2.45	18	UT	42 blows 100% recovery								-	
2.50 2.50-3.00	19 20	D B									(2.80)	
3.00 3.00-3.45 3.00-3.45 3.00-3.50	21 22 23	ES SPT DSPT B	N=15						1		-	
3.50	24	D									-	
3.80	25	ES						 <u>‡</u>	<u>,</u>		4.00	
4.00-4.45	26	UT	36 blows 100% recovery							Brown slightly gravelly clayey SAND. Sand is fine to coarse. Gravel is subangular and subrounded fine and medium mudstone and sandstone.	-	
	0.40-0.80 0.50-0.50 0.80-0.80 0.80-1.20 1.00-1.00 1.20-1.65 1.20-1.65 1.20-1.70 1.40 1.70 1.80 2.00-2.45 2.50 2.50-3.00 3.00-3.45 3.00-3.45 3.00-3.50 3.50	0.40-0.80 9 0.50-0.50 8 0.80-0.80 10 0.80-1.20 12 1.00-1.00 11 1.20-1.65 13 1.20-1.65 13 1.20-1.70 14 1.40 15 1.70 16 1.80 17 2.00-2.45 18 2.50 20 2.50-3.00 20 3.00-3.45 3.00-3.45 3.00-3.50 23 3.50 24 3.80 25	0.40-0.80 9 8 ES 0.50-0.50 8 ES 0.80-0.80 10 D B 0.80-1.20 12 B 1.00-1.00 11 ES 1.20-1.65 13 DSPT B 1.20-1.70 14 B 1.40 15 ES 1.70 16 D 1.80 17 ES 2.00-2.45 18 UT 2.50 20 B 3.00 3.45 3.00-3.45 3.00-3.50 23 B 3.50 24 D 3.80 25 ES	0.40-0.80	0.40-0.80	0.40-0.80	0.40-0.80	0.40-0.80	0.40-0.80	0.40-0.80	0.40-0.80 9 8 B S 1xT+1xJ+1xV	3.40-0.80 9 8 ES 1xT+1xJ+1xV

The		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	rogress	Conoral	Domorko
Castleford:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remarks
astle	2 4.13		Depth	Depth	(mm)	Depth		'	(1111.111111)	1 Desition algored using C	AT and Canny
Ľtd, Branch Office -	20/09/22	16:00	9.00	7.50	N/R	8.65	8.80	9.00	00:30	Position cleared using C Hand dug inspection pit Borehole drilled using 20 Groundwater encounters to 7.10m after 30 minute Borehole installed with a 50mm standpipe upon certains.	to 1.20m. Omm tools and casing. ed at 11.60m depth. Rose es. dual install of 19mm and
S le										All dimensions in metres	Scale: 1:25
structural Soils	Method Used:							Drilled Chr i By:	s Jobson +	Logged JAlton + By: RStan	Checked By: AGS

GINT_LIBRARY_V10_01.GLB Lib/Version: v8_07_001 Pn/Version: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.

Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:34 | TC9 |



BOREHOLE LOG

Contract:				Client:				Borehol	e:		
EMG Pha	se 2						SEGRO			В	H09
Contract Ref:	Start:	16.09.22	Groun	d Level (m	1 AOE	D):	National Grid Co-ordinate:	Sheet:			
765514	End:	26.09.22		74.23	3		E:445839.0 N:324955.9		2	of	14
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	Б. "		Sample	s & Testing	ı	Mechan	ical L	.og	ight. ≡ Hight. ≡	ē		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	Mechan SCR R (%) (QD %) (If mm)	Backt Instr menta	Water	Description of Strata	(Thick ness)	Graphic Legend
- 60 -	4.50 4.50-5.00 - -	27 28	D B								Brown slightly gravelly clayey SAND. Sand is fine to coarse. Gravel is subangular and subrounded fine and medium mudstone and sandstone. (stratum copied from 4.00m from previous sheet)	- (1.50) - -	
11/12/22 - 10:34 109	5.00-5.45 5.00 5.00-5.50	29 30	SPT DSPT B	N=7								- - - - 5.50	
www.soiis.co.uk, Emaii: ask@soiis.co.uk. 11/12/22	5.50 - -	31	D								Very stiff reddish brown slightly sandy slightly gravelly CLAY. Sand is fine and medium and mudstone derived. Gravel is angular and subangular mudstone lithorelics. (MERCIA MUDSTONE GROUP)	5.50 - - -	
www.soils.co.uk, En	6.00-6.45 6.00-6.45 6.00-6.50	32 33	SPT DSPT B	N=33								- - -	
: 01977-552299, web:	6.50 6.50	34 35	ES D									- - -	
I: 01977-552255, Fax	7.00-7.45 7.00-7.45 7.00-7.50	36 37	SPT DSPT B	N=40								- - - - (3.90)	
YORKSHIRE, WF 10 1NJ. 1EI: 01977-552255,	7.50	38	D									- - -	
- 1	8.00-8.33 - 8.00 - 8.00-8.50	39 40	SPT DSPT B	8,17/17,23,10 for 39mm				•			Occasional thin bands of fine and medium gravel size pockets of sandy silt.	-	
meries, Pomery Smeet, Castleford, Wes	8.50 - -	41	D									- - - -	

2		Boring Pro	ogress and	Water O	bservations		Chisel	ling / Slow F	rogress	Conoral	Domor	·lco	
5	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration	General	Remai	KS	
2010	Date	TITIE	Depth	Depth	(mm)	Depth	1 10111	10	(hh:mm)				
j													
3													
-													
5													
j													
5													
3										All dimensions in metres	Scale:	1:25	
,	Method		tion pit +	Pla		o 2000 Mai	k 2 +	Drilled Chr	is Jobson		Checked		
3	Used:	Cable Pe	ercussion :	+ ∣Use	ed: Coma	acchio GF(405	Bv:	+	Bv: RStan	Bv:		MAS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1N. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:34 | TC9 |



BOREHOLE LOG

Contract:		Client:		Borehol	e:		
EMG Pha	ise 2		SEGRO			Bŀ	H09
Contract Ref:	Start: 16.09.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End: 26.09.22	74.23	E:445839.0 N:324955.9		3	of	14
						_	

			Samples	s & Testing	1	Mecha	anical	Log	ᄦᆚᇙ	<u>_</u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instru- mentation	Water	Description of Strata	(Thick ness)	
	9.00-9.28		SPT	15,10/24,26				K	╢╢		9.00-9.40m: AZCL. ??? SPT		<u> </u>
	- 9.00 -	42	DSPT	for 70mm								-	
@soils.co.uk. 11/12/22 - 10:34 TC9	- - - - - - - -	43	С								Weak grey SILTSTONE. Occasional laminae of extremely weak reddish brown mudstone. GRADE III. Bedding fractures: closely spaced, incipient, undulating, rough. (MERCIA MUDSTONE GROUP) 9.40-9.65m: Extremely weka mudstone 10.00-10.03m: 9° undulating smooth clean 10.12-10.13m: 5° undulating smooth clean.	9.40	X X X X X X X X X X X X X X X X X X X
E LOG - A4PT (20214 EAS) MIDLAND AIRFORT (SPO - V10 UT) est Yorkshire, WF10 1ÑJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22	- - - - - - 11.21-11.60	44	С								10.33-10.38m: NI 10.33-10.41m: Mottled grey and reddish brown siltstone and mudstone. Fracture bedding closely spaced 0-10° undulating smooth possible incipient 10.44-10.45m: 7° undulating rough partial yellow stained 10.50-10.65m: AZCL 10.65-10.92m: NI 10.68-10.75m: 36° undulating rough occasionally yellow stained 10.86-10.88m: 4° undulating rough infill clayey silt and mudstone lithorelicts 11.17-11.19m: Band of MUDSTONE recovered as angular gravel. Fine to coarse.	(2.20)	X X X X X X X X X X X X X X X X X X X
. A4F 765514 EAS MIDLAND A shire, WF10 1NJ. Tel: 01977-55225	- - 12.00-13.50 - -						_	***			Extremely weak, locally weak, reddish brown MUDSTONE. Frequent laminae of grey siltstone and occasional reddish brown fine grained sandstone. Bedding fractures: widely spaced, 0-10°, planar, rough, rarely undulating, with some black, locally yellow, staining. (MERCIA MUDSTONE GROUP) 11.98-12.00m: Grey siltstone.	-	
71 Priversion: vs_0/ Log COMPOSITE LOG - Potteries, Pottery Street, Castleford, West York	- - - 12.79-12.97 - - -	45	С		100	95	95				12.54-13.21m: Sandstone fine grained interbedded with grey siltstone and local mudstone.	-	
r Prjve Potterie					₩	V	V						

Method	Inspec	tion pit +	Plan	t Dando	2000 Mar	k 2 +	 Drilled Chr i	s Jobson	All dimensions in metres Logged JAIton +	Scale: Checked	1:25	AGS
										1 -		
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	- Ciliali	\5	
	Boring Pro	ogress and	Water Ob			Chiselli	ing / Slow F	rogress	General	Domarl	/ C	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrIVersion: v8_07 | Log COMPOSITE LOG - A4P | 785514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10_1NJ. Tel: 01977-552256. Fax: 01977-552299. \



BOREHOLE LOG

•										
Contract:					Client:			Boreho	ole:	
	EMG Pha	se 2					SEGRO			BH09
Contract Ref	:	Start:	16.09.22	Ground	d Level (m /	AOD):	National Grid Co-ordinate:	Sheet:		
7	765514	End:	26.09.22		74.23		E:445839.0 N:324955.9		4	of 14
Denth	Samples & Tes	ting	Mecha	anical Lo	og ⊗ig	ter	D : " (0) (Depth	Material

			Sample	s & Testing	ı	Mecha	anica	Log ≝ ˌ ᢓ	<u></u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQE (%)	lt (mm) Sackfill & South	Water	Description of Strata	(Thick ness)	Graphic Legend
Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 10:34 TC9	13.50-15.00 - - - - - 14.08-14.18 - - -		С		100	91	91			13.42-13.50m: NI. Extremely weak, locally weak, reddish brown MUDSTONE. Frequent laminae of grey siltstone and occasional reddish brown fine grained sandstone. Bedding fractures: widely spaced, 0-10°, planar, rough, rarely undulating, with some black, locally yellow, staining. (MERCIA MUDSTONE GROUP) (stratum copied from 11.60m from previous sheet) 13.50-13.58m: NI 13.64-13.69m: NI 13.65-13.69m: Frequent yellow stained on discontinuities surface. Randomly orientated 13.69-13.74m: Band of siltstone 13.85-14.00m: Frequent pockets of grey	-	
soils.co.uk, Email: ask	_ _ _ _ 15.00-16.00 _				*	 	X		• • • • • • • • • • • • • • • • • • •	siltstone 13.98-14.03m: Band of siltstone 14.18-14.29m: ??? siltstone and mudstone 14.38-14.39m: 6° planar rough fine reddish brown sandy infill <3mm 14.54-14.61m: 15° planar rough fine reddish brown infill <3mm.	-	
552299, Web: www.	- ⁻ 15.48-15.74 - -	48	С		138	135			• • • • • • • • • • • • • • • • • • •	14.74-14.93m: 75° planar rough occasionally yellow brown stained. 15.22-15.75m: Reddish brown inbedded carbonate fine to medium grained sandstone. 15.50-15.53m: NI. 15.373-16.07m: Interbedded sandstone with	-	
552 <u>2</u> 55, Fax: 01977-4	- - - - 16.03-16.25 -	47	С				•		• • • • • • • • • • • • • • • • • • •	reddish brown mudstone and grey siltstone.	(9.40)	
WF10 1NJ. Tel: 01977-	_ _ _ 16.50-18.00 _				—	_	<u> </u>		• • • • • • • • • • • • • • • • • • •	16.93-17.02m: Thin lamanite mudstone 16.38-16.50m: AZCL 16.50-16.66m: Grey siltstone band.	-	
# 1	- 17.00-17.20 - -	49	С		93	77	43		×	17.31-17.66m: Reddish brown mudstone with	-	
otteries, Pottery Street, Castleford, Wes	-					•			•	infill and pockets of reddish brown sand, locally sandy MUDSTONE 17.44-17.52m: NI 17.59-17.66m: NI 17.66-17.90m: Recover as angular MUDSTONE with occasional pockets of siltstone 17.90-18.00m: AZCL.	-	

Γ		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	rogress	General	Domor	ko	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remai	KS .	
; -			Берит	Берит	(111111)	Берит							
,													
										All dimensions in metres	Scale:	1:25	
) I	Method Inspection pit + Plant Dando 2000 N Used: Cable Percussion + Used: Comacchio G							⊥ Drilled Chr i Bv:	s Jobson +		Checked By:		Mes

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01. Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552256, Fax: 01977-552299, v



BOREHOLE LOG

Contract:				Client:			Boreho	le:		
	EMG Pha	se 2				SEGRO			Bŀ	109
Contract Ref		Start:	16.09.22	Ground Level (m A	OD):	National Grid Co-ordinate:	Sheet:			
7	65514	End:	26.09.22	74.23		E:445839.0 N:324955.9		5	of	14
	Samples & Tes	tina	Mecha	nical Log ∞ . 등				Danth	N 4 -	

7	655	514		End:	26.09	3.22		74.23			E:4458	339.0 N:324955.9		5	of
		Samples	s & Test	ing	N	Vecha	anical I	_og <u>∞ , 5</u>						Depth	Ma
Depth (m)	No	Туре	Res	sults	TCR (%)	SCR (%)	RQD (%)	Backfill & Bornentation	Water		De	escription of Strata		(Thick ness)	G
18.00-19.50 18.06-18.33		С			100	74	71			MUDS and c sandste Beddin rough, yellow, (MERC (stratur18 brown18 infill. (rr	TÓNE. Froccasional one. ag fracture rarely und staining. CIA MUDS m copied for the copied for th	7m: Occasional pockets of r m: 13° >3mm open with sar own) 4m: 4° planar rough <3mn	Itstone grained planar, locally sheet) eddish ndy silt		
19.50-21.00					X	X	*			18 ?? level mediur silty sa181919	8.57-18.86 el: weak s m strong s indy grave i.57-19.06 i.40-19.50 i.50-19.60 19.60-19.7	m: AZCL. 71m: Pockets reddish brow	reak to very as tone.	-	
-19.96-20.38	51	С			82	79	61			sand a	nd parting: .82-19.96	s. m: Band of grey siltstone.		- - -	
					Y					weakne 20 2 brown	licts of greess. .40-20.65 20.55-20.5 silty CLAY 0.65-20.85	20.40m: NI due to wea by siltstone, 4° planar rough m: Bands of grey siltstone. 56m: 5° undulating rough r / infill (up to 4mm) >3mm ?? im: Interbedding grey siltsto	due to	21.00	
21.00-22.50					100	93	93			Extrem grained siltston mudsto (MERC 21 21	nely weak d SANDST e. Locally one. CIA MUDS .26-21.37 .40-21.62	to weak reddish brown TONE. Rare pockets of weak with laminae of reddish STONE GROUP) Im: NI due to weakness. Im: Mudstone. 68m: 79° undulating rough	ak grey brown	-	
-21.97-22.19	52	С			•									_(1.78) - - -	
Bo	rina F	Progress	and Wa	ater Oh	 servati	ons		Chise	llina	/ Slow P	rogress	_			_
	Time	Borel Dep	hole C	asing Depth	Boreh Diame (mm	ole eter	Water Depth	From	g	To	Duration (hh:mm)	General F	Rema	ırks	
												All dimensions in metres	Scale:	1:25	
Method		ection p		Plant			2000 8	lark 2 +	تحا	llad OL :	s Jobson	Logged JAlton +	Checke		$\neg \neg$

	Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	Progress	General	Domorl	' 0	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remair	(5	
			-									
									All dimensions in metres	Scale:	1:25	
Method Used:	Cable Po	ction pit + ercussion -	Plan Used		2000 Mar		Drilled Chr i By:	is Jobson +	Logged JAlton + By: RStan	Checked By:	1.23	AGS

Cable Percussion +



am													E	30	RE	HO	LE	ΞL	.OG
Contract:								CI	ient:							Bore	ehole	e :	
		EMC	3 Pha	se 2								SEGF	RO						BH09
Contract Ref	:			Start:	16.0	9.22	Grou	nd L	evel (m	AOE	D):	National G	rid Co-o	rdinate:		She	et:		
7	'65 !	514		End:	26.0	9.22	2	•	74.23	,		E:445	839.0	N:32	4955	.9		6	of 14
Depth (m)	No		s & Test Res		_	SCF	RRQD (%)	Log If (mm	Backfill & Instru-	Water		D	escript)	ion of S	trata		(Depth (Thick ness)	Materia Graphic Legend
22.50-24.00							A	`			 We	22.50-22.60 22.71-22.70 ak, local DSTONE. 0	6m: NI c	due to w	reddi	ish brow	vn	22.78	
22.98-23.29	53	С									brov	wn fine grain	ed sand	dstone. (GRADE	EII.	-		

(111)	INU	Type	Nesuits	(%)	(%)	(%)	(mm) <u>m</u> = E				ness)	Legei
22.50-24.00				1	1	1		22	.50-22.60	m: AZCL.		
⁻ 22.98-23.29	53	С		89	85	80		Weak, MUDS brown (MERG carbon Occas grained 22 induce	local TONE. O fine graine CIA MUDS 22.78m: late ur ional bed d sandstor 2.89-22.90	ccasional laminae of weak red sandstone. GRADE II. STONE GROUP) Weak local very weak subedded fine MUDST ded of reddish brown weat ne. m: 6° planar rough clean, po	slightly FONE. k fine	
24.00-25.50				*	X			slightly sand ir 23 23	fine sand 23.53-23.5 nfill, clean. 3.82-23.93	55m: 9° planar rough >3mr m: Weak sandstone. m: AZCL.	T T	
24.58-24.84	54	С		07				24	.42m24.4	undulating rough induce. 5m: NI due to weakness. m: Planar rough.	-	
-				97	95	89		24	.82-24.91	m: Planar rough.	(4.22)	
25.50-27.00					X					m: Pockets of fine sand. ghtly sandy occasional pock	sets of	
⁻ 25.98-26.28	55	С							n brown fir		-	
				100	100	84				28m: Extremely weak sand siltstone. (band and pockets		
								26	5.89-27.00	m: Drilling disturbed.	27.00	
Bo	rina F	Progress	and Water C)bserva	tions		Chise	lling / Slow P	rogress	_		
	Time	Borel	nole Casing	Bore Diam	hole neter	Wate	From	To	Duration (hh:mm)	General F	Remarks	
		Dep	th Depth	(mi	m)	Dept						
										All dimensions in metres	Scale: 1:2	5
		1	1	1			11	1 1		,	Coulo. I.Z	

<u>₽</u>		Paring Dr	narooo ond	Motor O	noon (otions		Chical	ling / Clay C	rogross				
=		Donny Pro			servations		Criisei	ling / Slow F	Togress	General	Remar	ks	
	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration	Concrai	Ciliai	I\O	
2011	Date	Tillie	Depth	Depth	(mm)	Depth	1 10111	10	(hh:mm)				
5													
2													
5													
2													
5													
בוו													
										All dimensions in metres	Scale:	1:25	
ō								<u> </u>			4		-
J.	Method Used:		tion pit +	Plar Use		2000 Mar		Drilled Chri			Checked		AGS
⊨	USEU.	Cable P	ercussion ·	+ USE	u. Coma	cchio GEC	J 4U5	By:	+	By: RStan	By:		1,100



BOREHOLE LOG

Contract:					Clien	t:			Boreho	le:		
	EMG Pha	se 2						SEGRO			В	H09
Contract Ref	•	Start:	16.09.22	Ground	Leve	l (m A	OD):	National Grid Co-ordinate:	Sheet:			
7	65514	End:	26.09.22		74	.23		E:445839.0 N:324955.9		7	of	14
	Samples & Tost	tina	Macha	nicol I c	og ox	-					Т	

		Samples	& Testing		Mech	anical	Log	rion ≡	ъ			De	
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm	Backfill & Instru-	Water	D	escription of Strata	(Th	
_ 27.00-28.50 - - 27.35-27.56 - -	56	С		100		67				grey, MUDSTO Bedding fractur rough, clean. (MERCIA MUD 27.00m: E mottled grey to MUDSTONE.	es: 0-10°, closely spaced, STONE GROUP) xtremely weak reddish brow inbedded slightly carbonat Fracture bedding 0-10° Fracture 60-70 undulating RADE III)	planar, - n local te fine planar -	
- - -										27.18-27.19 27.28-27.29 27.32- lithorelicts. 27.55-27.55 27.65-27.73	Om dept: 3° planar rough cle Om: 8° planar rough clean. Om: 6° undulating rough clea 27.34m: Undulating rough Om: 8° undulating rough clea Om: NI.	an. h silty an.	
28.50-30.00 - - - -				*		*				27.83-27.84 27.83-27.81 27.92-28.06 28.07-28.30 28.36-28.50 28.61-28.63	6m: 69° undulating rough cle 0m: 64° undulating rough cle	ean. ean.	000)
- - - - 29.44-29.65 - -	57	С		100	95	77				29.00-29.07 29.16-29.2 mudstone and s 29.36-29.31 29.43-29.44 29.64-29.65	7m: 28° undulating rough cle 28m: NI, recover as silty gr iltstone angular. 7m: 4° undulating rough clea 4m: 6° undulating rough clea 5m: 6° planar rough clean. 1m: 3° planar rough clean.	an.	
-				•		•				29.95 - 29.96	Sm: Planar rough clean. ated at 30.00m depth.	30.	00
-												- - - - - -	
	ring F Time	Boreh	0	Borel Diam	hole leter	Wate		Chise From	lling	/ Slow Progress To Duration (hh:mm)	General I	Remark	S
		Dep	th Depth	(mr	m)	Dept	n		+	(minin)			
											All dimensions in metres	Scale: 1	:25
										ı		Coulo.	

		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow P	rogress	General	Domorl	.	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	15	
5													
, ,													
5										All dimensions in metres	Scale:	1:25	
	Method Used:	Cable Pe	tion pit + ercussion -	Plan Used		2000 Mar cchio GEC		Drilled Chri By:	s Jobson + Pearson	By: RStan	Checked By:		AGS

BOREHOLE LOG

Contract:				Client:		Borehole	e:		
EMG Pha	se 2				SEGRO			В	H10
Contract Ref:	Start:	27.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	28.09.22		87.35	E:445787.3 N:325286.2		1	of	12

Danth		Sample	s & Testing			anical		#id - i	e					Depth	
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instru-	Water	D€	escription	of Strata		(Thick ness)	Leç
0.10-0.10	1	ES	1xT+1xJ+1xV							TOPSOIL				-	$\frac{1}{2}, \frac{7}{2}$
														(0.60)	<u>\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ </u>
0.30-0.30	2	D B												-	<u>//.</u> : <u>\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \</u>
		-												0.60	: <u>``</u> ;
			l							Reddish brown	slightly	gravelly slightly s fine to mediu	clayey	-	: .
0.70-0.70	5	ES B	1xT+1xJ+1xV							rounded to roun		nudstone, siltstor		(0.60)	
0.90-0.90	6	D								sandstone.				(0.60)	
														- 	
1.20-2.20				_	_	_				Stiff reddish brow	vn mottled	d light grey slightly	/ sandy	1.20	×
1.20-1.65	7	SPT DSPT	N=19							silty CLAY with fr	requent ar	ngular to subangu d mudstone lith	ılar fine _	1.35	×— ×
1.30	8	D								Occasional rootle	ets. (MMG	G, GRADE IVA)		(0.40)	$\times \frac{\times}{\times}$
										greenish grey cla	ayey SILT	very thinly bedde with frequent and	gular to	·	×
				100	0	0				subangular fine	to mediu	m gravel sized s lamanite and ve	iltstone ₋	1.75 -	<u>×</u>
-										beds of extremel	y weak si	iltstone. (MMG, G	RADE	_	<u> </u>
-										Stiff thinly and th	ickly lamii	nated reddish bro	wn silty	-	×
2.20-3.70				+	X	X				CLAY with frequent lithorelics. (MMG	uent fine	gravel sized mu	idstone	_	×
2.20-3.70		SPT	8,10/10,11,16,1 for 40mm	\$							n: Thinly 1	to thickly laminate	ed light	_	x
			IUI 4UIIIIII							groundingroy sill				_	×
										2.54-2.7 subangular fine to		orelics are ang	ular to		x
2.70	9	D								oubungulai iirio t	o oodioo (gravor oizo.		(2.05)	<u>×</u> _×
				100										_	x
_				100	0	0	•								x
•														-	x
														_	x
•														-	<u>x </u>
														_	<u>x </u>
3.70-5.20					i i	A								3.80	x
										Extremely weak reddish brown I	very the MUDSTC	ninly to thickly l DNE. Bedding fra	bedded actures	-	
4.00	10	D								are very closely	to closely	/ spaced 0° to 5° an and locally wit	planar	_	
				100	10	0					<1mm cl	lay smear on su			
•										` 3.90 - 4	l.15m: 7	5° undulating	smooth	_	
•										discontinuity with	i < imm ci	ay smear on surfa	aces.		
F	Borina	Progres	s and Water Obs	servati	ions										
Date	Time	Bore	hole Casing	Boreh Diame	ole	Wate	er			Ge	neral	Remarks			
27/09/22	111110	De	pth Depth .20 2.20	(mn	1)	Dept	— II '			cleared using CAT a		/			
28/09/22		17	.20 2.20	150 150	o	- 15.5	0 ;	3. drilli	ng di	g inspection pit to 1. ameters					
28/09/22		20	.20 None	150	0	-				installed with 50mn	n standpip	e upon completion	۱.		
									V II -i.				4.05		
Method	Dvnan	nic sam	pling + Plant						_	mensions in metre	s Logged	Scale:	1:25 Checke	ed	
Used:	Ro	tary Co			omac	chio (GEO 2	05	By		By:	RSenior	By:		Į.

	Boring Pro	ogress and	Water Ob	servations	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter	Water Depth
27/09/22		17.20	2.20	(mm) 150	- Depui
28/09/22		17.20	2.20	150	15.50
28/09/22		20.20	None	150	-

General Remarks

- Position cleared using CAT and Genny
 Hand dug inspection pit to 1.20m.
 drilling diameters
 Borehole installed with 50mm standpipe upon completion.

					A	All dime	ensions in metre	S	Scale:	1:25
Method Used:	sampling y Cored	 ant sed:	Coma	cchio GEC	205	Drilled By:	Marc Pearson	Logged By:	RSenior	Checked By:



BOREHOLE LOG

Contract:		Client:		Borehole	e:		
EMG Pha	se 2		SEGRO			В	H10
Contract Ref:	Start: 27.09.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End: 28.09.22	87.35	E:445787.3 N:325286.2		2	of	12
						\neg	

Į.		Samples	s & Testing		Mech	anical		≝ ㅗ둳	<u></u>	Depth Ma
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfil Instru mentat	Water	Description of Strata (Thick ness)
				100	10	0				4.02-4.08m: Drilling disturbed, recovered as soft gravelly clay 4.10-4.70m: With extremely closely to closely spaced undulating smooth black stained discontinuties. Extremely weak very thinly to thickly bedded reddish brown MUDSTONE. Bedding fractures are very closely to closely spaced 0° to 5° planar and undulating smooth clean and locally with black
5.40	11	D								spots and with <1mm clay smear on surfaces. (MMG, GRADE II) (stratum copied from 3.80m from previous sheet) 4.68-4.74m: Drilling disturbed recovered as clayey angular to subangular fine mudstone gravel. 4.75-4.92m: 80° to 90° undulating rough slightly black stained discontinuity.
6.20	12	D		100	0	0				siltstone. 4.96-5.02m: 45° undulating smooth clean discontinuity. 5.20-5.25m: Weak reddish brown mudstone. 5.41-5.42m: Extremely weak light greenish grey siltstone. 5.5.2-5.60m: (Soft) reddish brown silty clay
5.20-6.70 5.40 6.20 6.70-8.20				*	X	X				with frequent angular fine to medium gravel size lithorelics 5.66-5.82m: (Soft) reddish brown silty clay with frequent angular fine to medium gravel size lithorelics 6.00-6.20m: (Soft to firm) reddish brown silty clay with frequent angular fine to medium gravel size lithorelics.
7.30	13	D		95	0	0				6.47-6.52m: Extremely weak light greenish grey siltstone 6.60-6.70m: Drilling disturbed, recovered as soft gravelly clay 6.70-6.85m: (Firm) reddish brown silty clay with occasional angular to subangular fine to medium gravel size lithorelics 7.02-7.15m: (Soft to firm) reddish brown silty clay with occasional angular to subangular fine to medium gravel size lithorelics.
- - - 8.20-9.70 - -				90	47	7				7.15-7.25m: Moderately weak light greenish grey siltstone 7.15-7.32m: 75° undulating smooth discontinuity with occasional black specks 7.40-7.85m: 75° to 90° undulating rough clean locally lightly black stained discontinuity . Very weak thickly laminated to thickly locally medium bedded reddish brown MUDSTONE. Bedding fractures are very closely to closely locally
	oring F	Progress Borel	0		ions nole eter	Wate	- 11			medium spaced 0° to 5° planar and undulating smooth with >1mm clay smear of surfaces locally with rare to occasional black staining. (MMG, GRADE II) General Remarks
		'				·			All di	mensions in metres Scale: 1:25
Method Dy	ynam	ic samp	oling + Plan		omac	obio (CEO 1		Dril By:	lled Logged Checked

lue		Boring Pro	ogress and	Water Ob	servations				C	porol	Remarks		
Castletoru.	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth			<u> </u>	enerai	Remarks		
olis Ltd, Branch Uffice - Ca													
al Sol							-	All dime	nsions in metr	es	Scale:	1:25	
on actuals	Method Used:	Dynamic Rota	sampling ry Cored	+ Plar Use		cchio GEC	205	Drilled By:	Marc Pearso	Logged By:	RSenior	Checked By:	AGS



BOREHOLE LOG

Contract:		Client:		Borehole	c.		
EMG Pha	ise 2		SEGRO			ВІ	H10
Contract Ref:	Start: 27.09.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End: 28.09.22	87.35	E:445787.3 N:325286.2		3	of	12

			Sample	s & Testing		Ме	cha	anical	Log	II & J- tion	Į.		Depth	Material
	Depth (m)	No	Туре	Results	TCF (%)	R S(CR %)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	(Thick ness)	Graphic Legend
- 10:35 109	- - 9.15-9.35 - - -	14	С		90		17	7				siltstone. 8.50-8.51m: Weak light greenish grey siltstone. 8.55-8.95m: With extremely closely to very closely spaced randomly orientated undulating smooth and rough clean locally black stained discontinuities. 8.69-8.71m: Very weak to weak light greenish grey siltstone.	-(2.25)	
nail: ask@soils.co.uk. 11/12/22 - 1	9.70-11.20	15	С		100	5	33	33				Very weak thickly laminated to thickly locally medium bedded reddish brown MUDSTONE. Bedding fractures are very closely to closely locally medium spaced 0° to 5° planar and undulating smooth with >1mm clay smear of surfaces locally with rare to occasional black staining. (MMG, GRADE II) (stratum copied from 8.20m from previous sheet) 9.50-9.65m: AZCL.	10.45	
977-552299, Web: www.soils.co.uk, En	- - - - - - 11.20-12.70					,	3 	33				discontinuity with 1-2mm soft clay on surfaces. Extremely weak thickly laminated to thickly bedded reddish brown mottled grey slightly sandy to locally sandy MUDSTONE. Bedding fractures are extremely closely to closely spaced 0° planar and undulating clean locally with <1mm clay smear on surfaces. 10.82-11.00m: Firm to stiff thinly laminated reddish brown silty clay with occasional subangular fine gravel size mudstone lithorelics. 11.20-11.45m: AZCL.	-	
J 1NJ. Iel: 01977-552255, Fax: 019	- 111.50 - - - -	16	С		83	5	53	33				11.45-11.80m: With very closely spaced randomly orientated undulating smooth and rough black stained locally clean discontinuity. 11.80-12.22m: 85° to 90° undulating smooth and rough black stained discontinuity.	(2.15)	
otteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. 11/12/22	- - - 12.70-14.20 - - 12.99-13.12		С		93	4		21				12.24-12.28m: Weak light greenish grey siltstone 12.45-12.60m: Drilling disturbed, recovered as gravelly clay. Very weak very thickly to thinly bedded reddish brown MUDSTONE. Bedding fractures are very closely to closely spaced 0° to 5° undulating smooth and rough locally black stained and locally with <1mm clay smear on surfaces 12.70-12.92m: 85° to 90° undulating rough blacks stained discontinuity 13.25-13.32m: 45° undulating rough clean	12.60	
iteries, i	-											discontinuity.		

2		Boring Pro	ogress and	Water O	oservations				<u> </u>	naral	Damarka		
Eld, bignion Olivo - Casacione.	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth			Ge	nerai	Remarks		
							-	All dime	nsions in metre	S	Scale:	1:25	
סנו מכונמי כ	Method Used:	Dynamic Rota	sampling y Cored	+ Plai Use	_	cchio GEO	205	Drilled By:	Marc Pearson	Logged By:	RSenior	Checked By:	AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1N. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:35 | TC9 |



BOREHOLE LOG

EMG Phase 2 SEGRO B Contract Ref: Start: 27.09.22 Ground Level (m AOD): National Grid Co-ordinate: Sheet:	H10
Contract Ref: Start: 27.09.22 Ground Level (m AOD): National Grid Co-ordinate: Sheet:	
765514 End: 28.09.22 87.35 E:445787.3 N:325286.2 4 of	12

Depth (m) No Type Results Testing	3	Depth Mate
14.20-15.70 15.40-15.60 18 C 15.70-17.20 100 59 49 100 73 41 17.20-18.70 17.20-17.38 20 C 17.84-18.28 21 C Boring Progress and Water Observations Date Time Borehole Casing Borehole Depth Clameter Water Obepth Depth Classing Borehole Classing Borehole Classing Borehole Classing Classical Classing Classical Classing Classical C		(Thick Grap ness) Lege
15.40-15.60 18 C 15.70-17.20 16.27-16.57 19 C 17.20-18.70 17.20-17.38 20 C Boring Progress and Water Observations Date Time Borehole Casing Depth D	Very weak very thickly to thinly bedded reddish brown MUDSTONE. Bedding fractures are very closely to closely spaced 0° to 5° undulating smooth and rough locally black stained and locally with <1mm clay smear on surfaces. (stratum copied from 12.60m from previous sheet) 13.50-13.56m: Extremely weak light greenish grey siltstone.	(2.71)
16.27-16.57 19 C 17.20-18.70 17.20-17.38 20 C Boring Progress and Water Observations Date Time Borehole Casing Depth Diameter (mm) Borehole Depth Depth Depth Depth Depth	13.56-13.70m: Extremely weak mudstone with extremely closely spaced randomly orientated rough clean discontinuity 13.77-13.86m: Moderately weak light greenish grey siltstone 13.86-13.96m: Strong light greenish grey siltstone 13.91-13.97m: 50° undulating smooth black stained discontinuity 13.97-14.10m: Drilling disturbed, recovered NI as subangular fine to coarse gravel 14.10-14.20m: AZCL 14.70-14.77m: Weak siltstone, NI, recovered as subangular fine to coarse gravel 14.84-14.98m: 2No. parallel very closely spaced 50° undulating smooth black stained discontinuities 15.12-15.24m: 2No. parallel very closely spaced 85° to 90° undulating smooth black stained	
17.20-18.70	discontinuities. Medium strong thickly to medium bedded light greenish grey SILTSTONE. Bedding fractures are closely to medium spaced 0° to 10° undulating rough clean locally with occasional black specks on surfaces. (MMG, GRADE I) 15.31-15.36m: 30° undulating rough light	
17.20-17.38 20 C 95 13 7	black stained discontinuity, with occasional black specks 15.70-15.90m: Extremely weak reddish brown mudstone 15.99-16.01m: Extremely weak reddish brown mudstone 16.20-16.23m: Stiff reddish brown clay with frequent angular fine gravel size lithorelics.	-
Boring Progress and Water Observations Date Time Borehole Casing Depth Depth Water Depth Depth Depth Depth Depth	Extremely weak to very weak very thinly to thickly locally medium bedded reddish brown MUDSTONE. Bedding fractures are very closely to medium spaced undulating smooth and rough clean locally with <1mm clay of surfaces. (MMG, GRADE II) 17.37-17.42m: Beddin fractures are with black staining 17.44-17.58m: 70° to 80° undulating rough clean locally black stained discontinuity 17.62-17.83m: Very weak light greenish grey siltstone.	
Date Time Borehole Casing Depth Depth Water Depth Depth Depth Depth Depth	Description on next sheet	
Date Time Depth Depth Diameter (mm) Depth Depth	Conoral Pamarka	
All	General Remarks	
, , , , , , , , , , , , , , , , , , ,	dimensions in metres Scale: 1:25	
Method Used: Dynamic sampling + Used: Comacchio GEO 205	Orilled Logged Checket	ed A

= [Boring Pro	ogress and	Water Ob				C	and	oral [Remarks		
2000	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth				Ciaii	Ciliaiks		
2													
5								All alian and in an a	 -		2 1	4.05	
ا ءُ							/	All dimensions in me	tres		Scale:	1:25	
0.00	Method Dynamic sampling + Used: Plant Used: Comacchio G						205	Drilled By: Marc Pears		ogged y:	RSenior	Checked By:	AGS

BOREHOLE LOG

Contract:		Client:		Borehole	e:	
EMG Pha	ase 2		SEGRO			BH10
Contract Ref:	Start: 27.09.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:		
765514	End: 28.09.22	87.35	E:445787.3 N:325286.2		5	of 12

			Sample	s & Testing	N	Mecha	anical	Log	∞ - ie	<u></u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instru- mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
2 - 10:35 TC9	-				95	13	7				17.90-18.70m: Driling disturbed, recovered as (very soft to soft) gravelly clay. Extremely weak to very weak very thinly to thickly locally medium bedded reddish brown MUDSTONE. Bedding fractures are very closely to medium spaced undulating smooth and rough clean locally with <1mm clay of surfaces. (MMG, GRADE II) (stratum copied from 16.90m from previous sheet)	(3.30)	
99, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22	- 18.70-20.20 				100	47	36				19.76-19.83m: 80° undulating rough locally black stained discontinuity 19.95-20.11m: 75° undulating rough black stained discontinuity.		
otteries, Pottery Street, Castleford, West Yorkshire, WF-10 1NJ. 1el: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22						Y	Y				Borehole terminated at 20.20m depth.	20.20	
tteries													

<u>ا</u> [Boring Pro	ogress and	Water O	bservations		Co	noral	Domarks		
-td, bianch Oince - Casteroid.	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	Ge	nerai	Remarks		
CIUI di SOlls I	Method		sampling	+ Pla			 All dimensions in metre	s Logged	Scale:	1:25 Checked	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01. Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web:

Used: Rotary Cored

Used: Comacchio GEO 205

Marc Pearson By: By:

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Ву:

AGS

BOREHOLE LOG

Contract:				Client:		Borehole	e:		
EMG Pha	se 2				SEGRO			В	H11
Contract Ref:	Start:	27.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	30.09.22		79.89	E:445759.5 N:325134.8		1	of	13

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			Sample	s & Testing		Mecha	nical	Log ⊗ I	. हा .			Depth	Material
	Depth			T		000	D0D	3	entatic	E E	Description of Strate	/Thield	Graphic
		No	Туре	Results	TCR	SCR	RQD	If 춫 3		, a	Description of Strata	(Thick	Graphic
	(m)	INO	Type	Results	(%)	(%)	(%)	(mm) 👸 ¯	-ĕ ´			ness)	Legend
ı									Ы		TOPSOIL		7,18.7,18.7
ŀ	0 40 0 40			4 4 1. 4 3 /				الما			TOT GOIL	-	[;··;;·:;;·]
Į	0.10-0.10	1	ES	1xT+1xJ+1xV					19			L	1. :
								128					16.16.1
ŀ	-							nQ.	777			- ,	
-												(0.80)	7. 77. 77
2													31: 37: 3
5	0.50-0.50	2	В									-	$\left \begin{array}{c} \cdot \\ \cdot \\ \cdot \end{array} \right $
10.33	0.50-0.50	3	ЬĎ									-	1. 1.1. 1.1.
-	0.30-0.30	٦	"										
7	-											0.80	
2	0 00 0 00			AT. A I. A /						ŀ	Fi 4. 4:# d.di.b b linkshh.	0.00	
-	0.80-0.80	4	ES	1xT+1xJ+1xV							Firm to stiff dark orangish brown slightly sandy	_	<u>`</u>
-											gravelly CLAY. Sand is fine to medium. Gravel is	(0.40)	
5	1.00-1.00	5	В								subangular to rounded fine to coarse of mudstone,	_(00)	
3	_		l								siltstone and sandstone.	-	<u></u>
ŝΙ	1.10-1.10	6	D									1.20	<u> </u>
<u>s</u>	1.20-1.65	7	UT	90 blows						ı	Very stiff greyish brown slightly sandy slightly		<u> </u>
<u>x</u>	000	'	•								gravelly CLAY. Sand is fine to medium. Gravel is	-	\vdash
ا <u>ت</u>	_										subangular to subrounded fine to coarse of	L	
www.soils.co.uk, Eiliaii. ask@soils.co.uk.											sandstone, chalk, quartzite and mudstone.		<u></u> -a
<u> </u>	-										Sandstone, chaik, quanzite and mudstone.	-	[[]
<u> </u>	-											-	· • -
3													
<u>≅</u> [1.70	8	D										
ž.			_									(1.30)	<u> </u>
}												L` ′	
web.	2.00-2.45		SPT	N=20								_	
٠ [2.00	10	D'	11-20								-	
ñ [2.00-2.50	11	В									L	<u></u>
20	2.00-2.50	11											<u> </u>
-	-											-	
2	-											-	<u></u>
rax. 01977-552289,												2.50	· · ·
ם											Firm greyish brown, locally reddish brown, slightly		<u> </u>
ģ	-										sandy slightly gravelly CLAY. Sand is fine to	-	
7	-										medium. Gravel is subangular to subrounded	-	
ř	_										predominantly fine, occasional medium to coarse,		<u>• • • • • • • • • • • • • • • • • • • </u>
WF 10 1NJ. 161. 01977-552255,											of chalk, sandstone and mudstone.		
5	-										5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5	<u> </u>	<u> </u>
<u>.</u>		ا ا	l . <i>.</i> _	l								F	<u></u>
Ξ	3.00-3.45	12	UT	70 blows									<u> </u>
ź	3.00	13	D									Γ	- <u>-</u>
2 ∤	3.00	14	ES									-	<u>. </u>
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	3.50-4.00	15	В									L	
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ם ב	4.00-4.45	47	SPT	N=24								(3.20)	
วี	4.00	17	D										┌┶─╌┤
<u> </u>	4.00-4.50	18	В										<u> </u>
5	-											ŀ	
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(100)													<u> </u>
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The		Boring Pro	ogress and	Water O	bservations		Chisel	ling / Slow	Progress	Canaral Damarka
Castleford:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General Remarks
Branch Office - Castl	27/09/22 28/09/22 28/09/22		7.50 7.50 7.50 12.50	7.50 7.50 7.50 12.50	(mm) 200 200 200	Depth 11.45	10.00 10.50 11.00 11.50 12.00	10.50 11.00 11.50 12.00 12.50	01:00 01:00 01:00 01:00 01:00	1. Position cleared using CAT and Genny. 2. Hand dug inspection pit to 1.20m. 3. Borehole drilled using 200mm tools and casing. 4. Groundwater struck at 9.00m depth, rising to 8.40m depth after 20 minutes. 5. Groundwater struck at 21.00m depth. Rose to
Ę							12.00	12.00	01.00	18.70m after 20 minutes. 6. Borehole installed with 50mm standpipe upon All dimensions in metres Scale: 1:25
Structural Soils	Method Used:	Inspection pit + Plant Used: Dando 2 Used: Comacchio						Drilled By:	Mathew Heath +	Logged DNeylon + Checked By: JAlton By:

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1N. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:35 | TC9 |



BOREHOLE LOG

Contract:				Client:		Bore	hole:			
EMG I	Phase 2							Bŀ	111	
Contract Ref:	Start:	27.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Shee	et:			
765514	End:	30.09.22		79.89	E:445759.5 N:325134	.8	2	2	of	13

L	•	000) 14	End:	30.0			19.			E.443/39.3 N.323134.0		or 13
			Sample	es & Testing	ı	Mechanio	al Lo	og ∞	<u>6</u> ,			Depth	Material
	Depth (m)	No	Туре	Results		SCR RO	QD 6) (m	nm) Backfill ⊗ Jum)	mentati	water	Description of Strata	(Thick ness)	Graphic Legend
1/12/22 - 10:35 109	5.00-5.45 5.00	19 20	UT D	80 blows							Firm greyish brown, locally reddish brown, slightly sandy slightly gravelly CLAY. Sand is fine to medium. Gravel is subangular to subrounded predominantly fine, occasional medium to coarse, of chalk, sandstone and mudstone. (stratum copied from 2.50m from previous sheet)	- - - - -	
@solls.co.uk. 1	5.50 5.50-6.00 5.70	21 23 22	ES B D							-	Firm greyish brown slightly sandy slightly gravelly	5.70	
all: ask	-							ı			CLAY. Sand is fine. Gravel is subangular to subrounded fine of chalk and occasionally	-	
: www.soils.co.uk, Em	6.00-6.45 6.00 6.00-6.50	25 26	SPT D B	N=27							mudstone.	- - -	
YORKSINIE, WF-10 TNJ. 16I: 019 7-55Z255, FAX: 019 7-55Z299, Web: www.solis.co.uk, Email: ask@solis.co.uk, 11/12/22 - 10:35 109	7.00	27	D									- - - - - - - - - - - - - - - - - - -	
F10 1NJ. I el: 0197	7.50-7.95	28	UT	90 blows 100% recovery								-	
oueries, Pouery Street, Castleford, West Yorkshire, WF	8.00 - - - - - -	29	D						1	1 =		9.00	

<u>D</u>		Boring Pro	ogress and	Water C	bservations		Chisell	ing / Slow	Progress	Conor	al Remai	rko	
	Date	Time	Borehole	- 5	Diameter	Water	From	То	Duration (hh:mm)	Genera		KS	
מ מ			Depth	Depth	(mm)	Depth			,	completion.			
ģ													
5													
2													
Š													
3 LIL													
00										All dimensions in met	es Scale:	1:25	
II UCITAL	Method Used:		tion pit +	Pla Us		ando 2000 icchio GEC	I	_	Mathew Heath +	Logged DNeylon + By: JAlton	Checked By:	l	AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Soils Lid, Branch Office - Castleford: The Pottery Street, Castleford, West Yorkshire, WF10 1\overline{10.16.01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. | 11/12/22 - 10:35 | TC9 |



BOREHOLE LOG

Contract:				Client:		Borehole	e:		
EMG Pha	se 2				SEGRO			В	H11
Contract Ref:	Start:	27.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	30.09.22		79.89	E:445759.5 N:325134.8		3	of	13

		Sample	s & Testing	ľ	Mecha	anical	Log ≝	ig.	<u></u>		Depth	Material
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	Log ⊗ If Back (mm)	mental	Water	Description of Strata	(Thick ness)	Graphic Legend
9.00-9.45 9.00-9.45 - 9.00-9.50 - 9.00	30 31 32	SPT DSPT B D	N=50							Dense reddish brown gravelly fine to coarse SAND. Gravel is angular to subrounded fine to coarse of mudstone, quartz, flint and sandstone.	- (0.45) - 9.45	0 6 0 6
9.60-10.02	34 35	SPT D	10,13/15,15,12,8 for 45mm	3						Brown very sandy subangular to subrounded fine to coarse GRAVEL of quartzite, flint and sandstone. Stiff greyish brown mottled blue and reddish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is angular to subangular fine to coarse chalk, quartzite, sandstone and mudstone. Dense brown very sandy subangular to subrounded fine to coarse GRAVEL of quartz, sandstone, mudstone and flint.	9.60	
11.00 11.00-11.22 11.00 11.00-11.50	37	D SPT DSPT B	10,15/40,10 for 25mm								- (3.50)	
12.00-12.50	39	В									- - - -	
12.50-12.82 - 12.50 - 1-	40	SPT	12,13/24,19,7 for 15mm								-	
13.00-13.50 - -											13.50	

	Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow	Progress	Copore	ıl Remar	·ko	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	Genera		KS	
									All dimensions in metr	es Scale:	1:25	
Method Used:					ando 2000 cchio GEC		Drilled By:	Mathew Heath +	Logged DNeylon + By: JAlton	Checked By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1N. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:35 | TC9 |



BOREHOLE LOG

Contract:			Client:		Borehol	e:		
EMG	Phase 2			SEGRO			ВІ	H11
Contract Ref:	Start:	27.09.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	30.09.22	79.89	E:445759.5 N:325134.8		4	of	13
	0 T 4'						\neg	

		Samples	& Testing			anical		≅ - Ei	<u></u>		Depth	Material
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm	Backfill & Instru-mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
13.50-15.00		С		85	53	47	NI 150 210			AZCL. Extremely weak reddish brown MUDSTONE. NI, recovery as slightly clayey angular to subangular fine to medium gravel. Occasional laminae of grey siltstone. GRADE IVa. (MERCIA MUDSTONE GROUP) Extremely weak to weak reddish brown MUDSTONE. Occasional laminae of greenish grey siltstone. Frequent calcite pockets (<	- 13.73 (0.28) _14.01	AZCL
- - - - 15.00-16.50 - 15.12-15.43		С		_	X	*	*			40x30x30mm). GRADE III. Bedding fractures: 0-10°, closely spaced, planar, rough, occasionally with silty clay infill. (MERCIA MUDSTONE GROUP) 14.09-14.10m: 9° planar rough clean 14.29-14.33m: 5° undulating rough clean silty clay infill 14.41-14.61m: Grey siltstone 14.47-14.49m: 7° undulating rough clean silty clay infill 14.55-14.56m: 3° planar rough clean.	-	
-				100	95	90	NI 180 310			14.67-14.68m: 4° planar rough clean 14.82m: NI, recovery as sandy angular gravel 15.05-15.14m: Reddish brown mudstone 15.12-15.13m: 6° planar rough clean 15.36-15.43m: NI recovery as angular fine to coarse gravel 15.41-15.46m: 27° undulating rough clean 15.45-15.59m: 68° undulating rough. Occasionally yellow stained 15.51-15.52m: 5° planar rough. Occasionally yellow stained 15.70-16.11m: 7° planar rough 16.25-16.38m: 50° undulating rough clean.	-(3.26)	
16.50-18.00				*	*	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	*			16.50-16.65m: AZCL.	- - - -	
- - - - - - 17.56-17.75	5 43	С		90	69	62	NI 85 300			16.95-17.19m: Weak grey siltstone. 17.19-17.27m: NI. Extremely weak to weak reddish brown MUDSTONE. Rare to occasional grey pockets of siltstone. GRADE II. Fractures: Widely and extremely widely spaced, 0-10°, planar, rough clean. (MERCIA MUDSTONE GROUP) 17.48-17.56m: NI 17.84-18.06m: NI, mottled with grey siltstone.	17.27	

	Boring Pro	ogress and	Water Ob	servations		Chisel	ing / Slow	Progress	General	Domorl	' 0	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remair	15	
			•		·							
									All dimensions in metres	Scale:	1:25	
Method Used:					ando 2000 cchio GEC		Drilled By:	Mathew Heath +	Logged DNeylon + By: JAlton	Checked By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1N. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:35 | TC9 |

BOREHOLE LOG

Contract:					Client:		Boreho	ole:		
	EMG Pha	se 2				SEGRO			Bŀ	1 11
Contract Ref:		Start:	27.09.22	Ground	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
7	65514	End:	30.09.22		79.89	E:445759.5 N:325134.8		5	of	13
	Samples & Test	ing	Mecha	anical Lo	og ∞ , 5 _			Denth	Ma	atorial

			Samples	s & Lesting	IN IN	/lecha	inical	Log	절 - 텔	₩		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instru-	Water	Description of Strata	(Thick ness)	Graphic Legend
22 - 10:35 TC9	18.00-19.50 18.10-18.45		С					NI		1	Extremely weak to weak reddish brown MUDSTONE. Rare to occasional grey pockets of siltstone. GRADE II. Fractures: Widely and extremely widely spaced, 0-10°, planar, rough clean. (MERCIA MUDSTONE GROUP) (stratum copied from 17.27m from previous sheet)	- - - -	
nail: ask@soils.co.uk. 11/12/⁄					100			ZI ZI			19.02-19.06m: Pockets of grey siltstone.	- - - - -	
o.uk, En	19.50-21.00 19.60-19.97	l	С		 		1	1			19.50-19.57m: Pockets of grey siltstone.	-	
v.soils.c		40									19.65-19.68m: Sandy silty mudstone.	-	
b: ww											19.88-20.50m: interbedded with grey siltstone.	_	
255, Fax: 01977-552299, W					100	97	97	NI NI NI			20.02-20.06m: 14° planar rough clean.	- - - -	
977-552	-										20.76-20.83m: Pockets of silty fine sand.	_	
Tel: 01	_ _ 21.00 - 22.50				X	*	*	*		¥	20.86-21.23m: Very weak to weak grey siltstone.	_	
shire, WF10 1NJ.											21.08-21.09m: 5° planar rough <3mm silty clay infill.	- (7.73) - -	
teries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk, 11/12/22 - 10:35 TC9	21.60-21.82	46	С		100	100	95	30 460			21.55-21.59m: Medium strong reddish brown fine grained sandstone 21.55-21.79m: Pockets of siltstone 21.59-21.60m: 4° undulating rough fine sand infill <3mm 21.78-22.00m: 85° undulating rough clean 22.00-22.25m: 69° undulating rough clean.	- - - - -	
eries,	-											-	

		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow	Progress	<u> </u>	eneral f	Domor	ko	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	G	enerai i	Temai	NS	
					()									
:										All dimensions	s in metres	Scale:	1:25	
	ethod sed:	Cable Pe	tion pit +	Plan Used		ando 2000 cchio GEC	I	Drilled By:	Mathew Heath +		leylon + JAlton	Checked By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01. Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web:

BOREHOLE LOG

Contract:				(Client:			Borehol	e:		
	EMG Pha	se 2					SEGRO			В	H11
Contract Ref		Start:	27.09.22	Ground	Level (m AO	D):	National Grid Co-ordinate:	Sheet:			
7	65514	End:	30.09.22		79.89		E:445759.5 N:325134.8		6	of	13
	OI 0 T			:						$\overline{}$	

			Samples	s & Testing	1	Mecha	anical	Log	∞ ' ie	<u>_</u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instru- mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
2 - 10:35 TC9	22.50-23.50 22.50-22.73 - - - - -		С		100	78	78	NI NI 320			Extremely weak to weak reddish brown MUDSTONE. Rare to occasional grey pockets of siltstone. GRADE II. Fractures: Widely and extremely widely spaced, 0-10°, planar, rough clean. (MERCIA MUDSTONE GROUP) (stratum copied from 17.27m from previous sheet)	-	
ils.co.uk. 11/12/2	- - _ 23.50-25.00				X	- X -	X	X			23.30-23.41m: Grey siltstone. 23.38-23.50m: NI.	- - -	
.uk, Email: ask@so	- - - _ _ 24.02-24.20	48	С								23.77-23.78m: 5° planar rough clean. 23.90-23.92m: 8° undulating rough clean.	-	
11977-5522 <u>9</u> 9, Web: www.soils.co	-				100	97	91	NI 80 323			24.23-24.38m: 74° undulating rough. Rare laminae of siltstone 24.35-24.41m: 52° planar rough clean 24.35-24.44m: 52° and 57° intersecting planar rough clean discontinuities 24.43-24.53m: 48° planar rough clean 24.67-24.68m: 4° planar rough clean 24.76-24.84m: NI.	-	
est Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 10:35 TC9	25.00-26.50 - 25.16-25.47 - - - - -		С		100	83	83	NI NI 480			Very weak reddish brown MUDSTONE. Locally grey siltstone. GRADE II. Fractures: randomly orientated, closely to widely spaced, undulating, rough, clean. Occasional laminae and pockets of grey siltstone. (MERCIA MUDSTONE GROUP) 25.14-25.18m: 8° undulating rough clean 25.50-25.65m: 7° occasional laminae of siltstone 25.50-25.70m: Occasional laminae of siltstone 25.50-25.74m: 69° undulating rough clean 25.72-25.81m: 85° undulating rough clean.	25.00	
leries, Pottery Street, Častleford, West Yor	- - - 26.50-28.00 - 26.59-26.80 - -	50	С		100	67	57	NI 80 480			25.75-25.85m: 44° undulating rough clean 25.83-25.92m: 52° undulating rough clean 25.86-25.98m: 5° planar rough clean 26.20-26.22m: 14° planar rough clean 26.37-26.61m: Grey siltstone 26.78-26.86m: 39° planar rough clean.	-	

	Boring Pro	ogress and	Water Ob	servations		Chisel	ing / Slow	Progress	General	Domorl	' 0	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remair	15	
			•		·							
									All dimensions in metres	Scale:	1:25	
Method Used:	Cable Po	ction pit + ercussion -	Plan Used		ando 2000 cchio GEC		Drilled By:	Mathew Heath +	Logged DNeylon + By: JAlton	Checked By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1N. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:35 | TC9 |



Contract:				Client:				Boreho	le:		
EMG Pha	se 2						SEGRO			В	H11
Contract Ref:	Start:	27.09.22	Groun	d Level (n	n AOD)):	National Grid Co-ordinate:	Sheet:			
765514	End:	30.09.22		79.89	9		E:445759.5 N:325134.8		7	of	13
0 1 0 7											

		Sample	s & Testing	ľ	Mecha	anical	Log	u- tion	Б		Depth	Materia
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm	Backfill & Instru-mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
- - - - - - - - - - - - - - - - - - -				100	67	57	NI 80 480			Very weak reddish brown MUDSTONE. Locally grey siltstone. GRADE II. Fractures: randomly orientated, closely to widely spaced, undulating, rough, clean. Occasional laminae and pockets of grey siltstone. (MERCIA MUDSTONE GROUP) (stratum copied from 25.00m from previous sheet) 27.07-27.41m: NI, fractures closely spaced randomly orientated planar rough clean 27.62-27.66m: NI 27.77-27.84m: NI fracture randomly orientated 60-80° 27.87-27.93m: Grey siltstone.		
_ 28.00-29.50 - - - - - - - - - - 29.07-29.30		С		100	82	82	NI NI 830			28.26-28.43m: NI, randomly orientated, undulating, rough, incipient fractures with yellow staining on surfaces. 28.64-28.83m: Grey siltstone 28.67-28.69m: Extremely weak mudstone.	-	
29.50-31.00 29.59-29.83		С		X	*	- X -	*			29.35-29.36m: 6° planar rough clean 29.50-30.34m: With laminae of very weak to weak grey siltstone.	-	
- - - - - - -				100	84	75	NI NI 530			30.34-30.47m: NI 30.55-31.00m: Very weak to medium strong fine to medium grained SANDSTONE 30.57-30.66m: NI.	-	
- - - -				 	\	.	₩			30.89-31.00m: NI. Borehole terminated at 31.00m depth.	31.00	

	Boring Pro	ogress and	Water Ob	servations		Chisel	ing / Slow	Progress	General	Domorl	' 0	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remair	15	
			•		·							
									All dimensions in metres	Scale:	1:25	
Method Used:	Cable Po	ction pit + ercussion -	Plan Used		ando 2000 cchio GEC		Drilled By:	Mathew Heath +	Logged DNeylon + By: JAlton	Checked By:		AGS

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Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10.1NJ. Tel: 01977-552255, Fax: 01977-552299, 1

BOREHOLE LOG

EMO Dise	_						
EMG Phas	se 2		SEGRO			BH	112
Contract Ref:	Start: 26.09.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End: 30.09.22	80.23	E:446174.0 N:325010.3		1	of	12

Ĺ				0 T ::			٠.,							
	Б. и		Sample	s & Testing	ľ	Mecha	anıcal	Log	Flush Returns & Details	ii & ition	ē		Depth	Material
	Depth	Na	T	Deculto	TCR	SCR	RQD	lf	Set in series	ackf nstr enta	Water	Description of Strata	(Thick	Graphic
	(m)	No	Type	Results	(%)	(%)	(%)	(mm)	문 8.0	Be I			ness)	Legend
	0.00-0.20	1	В							\boxtimes	8	TOPSOIL		$\overline{z_{I,I^{N}}}$. $\overline{z_{I,I^{N}}}$. $\overline{z_{I,I^{N}}}$. $\overline{z_{I,I^{N}}}$.
ı	0.10	101	ES	1xT+1xJ+1xV						\boxtimes			0.20	17. 11, 11/
t	0.10	2	D							\boxtimes	ä	Firm fissured dark greyish brown slightly	0.20	<u> </u>
ŀ										$\otimes\!\!\!/ \otimes$	Š	sandy slightly gravelly CLAY. Sand is fine	-	
1	0.40	3								$\boxtimes \boxtimes$	Š	to coarse. Gravel is subangular to	-	
- -	0.40-0.60	4	D B							$\otimes \otimes$	3	subrounded fine to coarse of sandstone,	-	
-	0.40 0.00	"								\boxtimes	3	siltstone and quartz.	_	<u> </u>
L										$\otimes\!\!\!/ \otimes$	Ž			· <u> </u>
L										$\otimes\!\!\!/ \otimes$	Š			
										$\boxtimes \boxtimes$	8			
- [$\otimes \otimes$	3		-	<u> </u>
t	1.00	5	D							\boxtimes	X		-	
ŀ	1.00-1.20	6	B							$\otimes\!\!\!/ \otimes$	Ž		-	· - · - · - · - ·
╮┟		7	LIT	100 blours						\bowtie	×		-	
΄ ∤	1.20-1.40	'	UT _(UT100)	100 blows 100% recovery						111/	1		-	
-		_		1007016004619						서	1		-	<u></u>
	1.40-1.50	8	D							/1K	1			
٠											1			
ſ										Z1K	1			
Ī	1.70	9	D							/11/	1		-	<u>-</u>
ŀ										21/2	1		-	<u></u>
ŀ										/1K	1		-	
ŀ	-0.00.0.45		CDT	NI-4.4						/1//	1		(3.70)	
.	2.00-2.45 2.00-2.45	11	SPT DSPT	N=14						717	1		- ()	<u> </u>
L	2.00-2.45	12	В							/11/	1			
	2.00 2.10	'-								242	1			<u></u>
										/11/	1			
											1			
ı										K1K	1		-	<u> </u>
`										/1//	1		-	
ŀ	2.70	13	D							21/2	1		-	<u></u>
ŀ	2.70	'Ŭ								/11/	1		-	
ŀ											1		-	
ļ		١								K1K	1		_	
L	3.00-3.45	14	$UT_{(UT100)}$	150 blows						/1//	1		_	
				78% recovery						KIK	1		L	<u>• • • • • • • • • • • • • • • • • • • </u>
ſ											1			
- [21/2	1			<u>[</u>
t	0.45.6.55									K1K	1		Ī	
ŀ	3.45-3.55	15	D							11/	1		<u> </u>	
+										KIK	1		}	<u>• · · · · •</u>
-	2.70	10								111	1		}	
`	3.70	16	D							21/2	1		-	<u> </u>
										KIK	1		3.90	<u> </u>
	_									11/1	1	Firm fissured greyish brown slightly sandy	L	<u> </u>
_	4.00-4.45		SPT	N=15						KIK	1	slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to		
Ī	4.00-4.45	18	DSPT								1	coarse. Gravel is subangular to subrounded fine to coarse of mixed		<u></u>
,	4.00-4.45	19	В							21/2	1	lithologies including sandstone, quartz and	<u> </u>	
l										K1K	1	siltstone.	<u> </u>	
`]		ŀ	<u></u>
L										$\angle \bot \!$			L	+ - -

	Bo	orina Pro	ogress and	Water () bservations		Chisel	ling / Slow F	Progress		
Dat			Borehole Depth	Casing Depth	Borehole Diameter	Water Depth	From	То	Duration (hh:mm)	General	Remarks
26/09		17:15	3.90	3.00	200	Dry	16.50	16.70	01:00	Position cleared using C Hand dug inspection pit	
27/09	9/22	08:26 17:33	4.00 16.50	3.00 16.50	200 200	Dry 14.00				Borehole drilled using 20 Borehole installed with a	50mm standpipe.
28/09	09/22 08:14 16.50 16.50 200 09/22 10:54 16.80 16.50 200					14.10				5. SPT hammer AR3104-2	$022 (E_r = 64.00\%)$ used.
29/09		15:30 17:00	16.80 23.30	16.50 16.50	200 146	15.50 20.70					
30/09						6.80				All dimensions in metres	Scale: 1:25
)	Method Inspection pit + Cable Percussion +					ando 3000 · acchio Geo			nny Hutt + m Carter	Logged RSenior + By: RStan	Checked By: AGS

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Structural Soils Lid, Branch Office - Castleford: The Pottery Street, Castleford, West Yorkshire, WF10 1\overline{10}. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. | 11/12/22 - 10:36 | TC9 |

BOREHOLE LOG

Contract:				Client:				Borehol	e:		
EMG Pha	se 2					SEGRO				В	H12
Contract Ref:	Start:	26.09.22	Groun	d Level (m	AOD):	National Grid Co-ordinal	e:	Sheet:			
765514	End:	30.09.22		80.23		E:446174.0 N:3	325010.3		2	of	12
							·			_=	

			Sample	s & Testing	ľ	Mecha	anical	Log	sils	≅ - le	P		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfi Instri menta	Water	Description of Strata	(Thick ness)	Graphic Legend
12/22 - 10:36 TC9	5.00-5.45	20	D UT _(UT100)									Firm fissured greyish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of mixed lithologies including sandstone, quartz and siltstone. (stratum copied from 3.90m from previous sheet)	- - - - -	
.co.uk. 11/	· · 5.45-5.55	22	D										-	
ask@soils	5.70	23	D										_	
eb: www.soils.co.uk, Email:	6.00-6.45 6.00-6.45 6.00-6.45	25 26	SPT DSPT B	N=24									- - - -	
Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk, 11/12/22 - 10:36 TC9	7.30	27 28	D UT _(UT100)	150 blows 100% recovery									- - - - - - - - - - - - - - - - - - -	
Potteries, Pottery Street, Ca	8.70	29	D										-	

<u>n</u>													
The		Boring Pr	ogress and	Water Ob	servations		Chise	lling / Slow	Progress	Conoral	Domor	ko	
tleford:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remai	KS	
ast			Depth	Depth	(mm)	Depth			(1111.11111)				
ÿ	30/09/22	13:30	30.80	None	146	-							
#Ice													
Ċ													
ranc													
n D													
S													
Soi										All dimensions in metres	Scale:	1:25	
oture	Method	Insped	tion pit +	Plar		ando 3000	+	Drilled Jo	nny Hutt +	Logged RSenior +	Checked		
Stru	Used:	Cable P	ercussion ·	+ Use	d: Com a	acchio Geo	602	By: Sa	m Carter	By: RStan	By:		AGS

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BOREHOLE LOG

Contract:			Client:			Borehol	e:		
EMG Ph	iase 2				SEGRO			В	H12
Contract Ref:	Start: 26.09.22	Ground	d Level (m	AOD):	National Grid Co-ordinate:	Sheet:			
765514	End: 30.09.22		80.23		E:446174.0 N:325010.3		3	of	12
								_	

		Sample	s & Testing	ľ	Mecha	anical	Log	s <u>s</u>	∞ ' ë	<u>~</u>		Depth	Material
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfill & Instru- mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
9.00-9.45 9.00-9.45 - 9.00-9.45	31 32	SPT DSPT B	N=25								Firm fissured greyish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of mixed lithologies including sandstone, quartz and siltstone. (stratum copied from 3.90m from previous sheet)	-	
10.30	33	D									Stiff fissured dark brown slightly sandy gravelly CLAY. Sand is fine. Gravel is subangular to subrounded fine of mixed lithogolies including sandstone, mudstone	10.20	
10.50-10.95	34	UT _(UT100)	150 blows 89% recovery								and siltstone.	(1.20)	
11.70	35	D	5 7/7 00 00								Stiff reddish brown mottled grey slightly gravelly sandy silty CLAY. Sand is fine. Gravel is angular to subangular fine of mixed lithologies including sandstone and mudstone.	11.40	
12.00-12.30 - 12.00-12.30 - 12.00-12.30	37 38	SPT DSPT B	5,7/7,20,23 for 70mm									(1.60)	
13.00-13.50	39	В									Firm fissured sandy SILT.	13.00	* · · · · · · · · · · · · · · · · · · ·

Γ		Boring Pro	ogress and	Water Ob	servations		Chisel	ing / Slow F	rogress	General	Domor	ko	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter	Water Depth	From	То	Duration (hh:mm)	General	Remai	KS	
			Берит	Берит	(mm)	Берит				-			
,													
										All dimensions in metres	Scale:	1:25	
	Method	Inspec	tion pit +	Plan	t Da	ando 3000	+	Drilled Jon	ny Hutt +	Logged RSenior +	Checked		
. 1						acchio Geo	602	By: Sa	m Carter	By: RStan	By:		AGS
_		Rota	rv Cored								-		

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BOREHOLE LOG

Contract:			(Client:				Borehol	e:		
EMG Pha	se 2					SEGRO				В	H12
Contract Ref:	Start:	26.09.22	Ground	Level (m	AOD):	National Grid Co-ordinate:		Sheet:			
765514	End:	30.09.22		80.23		E:446174.0 N:325	010.3		4	of	12

_		• • •	Liiu.	30.0				70.20			•	·
D 11		Sample	s & Testing	_	Mecha	anical	Log	ails ails ur-	ē		Depth	Material
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details Backfill & Instru- mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
13.50-13.84		SPT	7,9/16,23,11 for 40mm							Firm fissured sandy SILT. (stratum copied from 13.00m from previous	-	× × ×
13.50-13.84	41	DSPT	101 40111111						}	sheet)	-	^ × ^ ×
13.50-13.95	42	В]		-	× × ×
-								[[2][2]	1		-	× * * *
								[21/2:	1			× · × ×
-								[[2][2]	1		(2.50)	× . × . ×
-								[[2][2]	1		- (2.00)	* * * *
_									1		-	× × × ×
-											-	× ^ × . ×
-									1			* . · · · ·
14.70	43	D									-	× · · × ×
-									}		-	× · · ×
15.00 - 15.45		SPT	N=41						}		-	× × × ×
15.00-15.45 15.00-15.45		DSPT B							}			× . × .
-	1 70								}		-	* * * *
_									}		15.50	× •× • ×
15.50-16.00	47	В							}	Greyish brown sandy silty subangular to	13.30	$\overset{\times}{\otimes}\overset{\sim}{\circ}\overset{\sim}{\circ}\overset{\times}{\circ}$
_									}	subrounded fine to coarse GRAVEL of mixed lithologies including sandstone,		
-									}	siltstone, flint. Sand is fine to coarse.	(0.60)	\$ °.
-									1	Cobbles of flint noted.	-	
_											16.10	× 0
-										Very stiff reddish brown sandy gravelly CLAY. Sand is fine. Gravel is angular to	-	
16.30	48	D							1	subangular fine of mudstone lithorelics.	(0.62)	
-										With laminae of grey siltstone. (MERCIA MUDSTONE GROUP)	(0.02)	
16.50-17.30 (0:03)				1	1	1					-	
- 16.50 - 16.72		SPT	7,9/50							470	16.72	
_ 16.50-16.72	50	DSPT	for 70mm					l igi (g)		AZCL (MERCIA MUDSTONE GROUP)	- 16.84	AZCL
16.50-16.80	51	В	05/50	57	30	0		Air+Mist (Brown)	1	Very weak thinly to thickly bedded reddish	Ĺ	
-16.70-16.84 -		SPT	25/50 for 75mm					`广// 比比:		brown MUDSTONE. GRADE II. Bedding fractures: Very closely to closely	ļ.	
16.70-16.84		DSPT							1	spaced, 0° to 5°, planar, undulating,	-	
17.11-17.20 17.30-18.80		С		-	*	X			1	smooth, clean, locally lightly black stained. (MERCIA MUDSTONE GROUP)	(1.09)	
(0:05)									}	16.90-17.00m: 50° undulating smooth black stained discontinuity.	[
_									}	17.00-17.18m: 85°-90° undulating		
-				97	53	37		Air+Mist (Brown)]	rough lightly black stained discontinuity 17.20-17.25m: 70° undulating rough	}	
-									1	clean discontinuity.	} <u></u>	
17.91-18.01	55	С							1	17.33-17.43m: 2 no 70° and 50° \undulating rough clean discontinuities.	- 17.93	xxxx
	•								•			

		Boring Pro	ogress and	Water Ob	servations		Chisel	ing / Slow F	Progress	General	Domor	l.o	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remai	KS	
;			Ворит	Ворин	(11111)	Ворит							
										All dimensions in metres	Scale:	1:25	
) I	Method Used:	Cable Po	ction pit + ercussion -	Plan Used		ando 3000 acchio Geo	I		ny Hutt + m Carter	Logged RSenior + By: RStan	Checked By:		AGS

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BOREHOLE LOG

Contract:					Client:		Boreho	ole:		
	EMG Pha	se 2				SEGRO			Bŀ	112
Contract Ref	·. ·	Start:	26.09.22	Ground	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
7	'65514	End:	30.09.22		80.23	E:446174.0 N:325010.3		5	of	12
	Samples & Test	ting	Mecha	nical Lo	og <u>"</u> <u>«</u> ∞ , 5 _			Denth	Ma	aterial

		Samples	s & Testing	ı	Mecha	nical	Log	2 :	u- tion	ē		Depth	Material
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns	Backfill & Instru-mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
- - - - 18.80-20.30 - (0:05) - - 19.15-19.30		С		97	53	37		Air+Mist (Brown)			Medium strong thinly bedded light greenish grey SILTSTONE. GRADE I. Bedding fractures: Closely spaced, 0° to 10°, undulating, rough, clean, locally black stained. (MERCIA MUDSTONE GROUP) (stratum copied from 17.93m from previous sheet) 18.08-18.18m: 40° undulating rough clean rough clean discontinuity 18.64-18.80m: Extremely weak reddish brown mudstone 18.90-19.15m: Very weak very thinly bedded reddish brown mudstone.	(1.54)	X X X X X X X X X X X X X X X X X X X
-				100	79	47		Air+Mist (Brown)			Very weak thinly to medium bedded reddish brown MUDSTONE. GRADE II. Bedding fractures: closely to medium spaced, 0° to 5°, planar to undulating, smooth and rough, clean, locally lightly stained black.	19.47	× × × × × × × × × × × × × × × × × × ×
20.30-21.80 (0:04) 20.50-20.77		С		*	*	*		*			(MERCIA MUDSTONE GROUP)	(1.76)	
-				98	44	37		Air+Mist (Brown)			20.85-21.20m: 80° undulating smooth discontinuity with <1mm of silt on surfaces 21.02-21.23m: extremely weak light greenish grey siltstone 21.07-21.23m: extremely weak light greenish grey siltstone. Stiff very thinly to thickly bedded reddish brown silty CLAY with occasional subangular fine to medium gravel size	-21.23	XO
- - - 21.80-23.30 - (0:05) - - -				97	90	52		Air+Mist (Brown)			mudstone lithorelics. (MERCIA MUDSTONE GROUP)	21.80 (0.36)	X

	Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	rogress	General	Domorl	lc0	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	NS	
		Берит	Берит	(111111)	Берит				-			
									All dimensions in metres	Scale:	1:25	
Method	Inspec	tion pit +	Plan	t Da	ando 3000	+	Drilled Jon	ny Hutt +	Logged RSenior +	Checked		
Used:						602	By: Sa	m Carter	By: RStan	Ву:		AGS
		rv Cored					,		,			MO

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Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web

BOREHOLE LOG

Contract:					Client:		Boreho	ole:	
	EMG Pha	se 2				SEGRO			BH12
Contract Ref		Start:	26.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:		
7	65514	End:	30.09.22		80.23	E:446174.0 N:325010.3		6	of 12
	Samples & Test	ting	Mecha	nical L	og se se io			Depth	Material

			Samples	& Testing	ı	Mech	anical	Log	u u	S is	≅ - igi	į.		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	Log If (mm)	Flush	& Deta	Backfill & Instru- mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
o.uk. 11/12/22 - 10:36 TC9	- - 23.05-23.30 - - 23.30-24.80 - (0:04)		С		97	90	52		Air+Mist				22.33-22.45m: 70° undulating rough clean discontinuity 22.43-22.46m: 20° undulating rough clean discontinuity. Very weak thinly to medium bedded reddish brown silty MUDSTONE. Bedding fracture: Closely to medium spaced, 0° to 10°, undulating, smooth and rough, clean, locally with <1mm clay smear on surfaces. (MERCIA MUDSTONE GROUP) (stratum copied from 22.16m from previous sheet)	-	
: www.soils.co.uk, Email: ask@soils.co	- - - 23.90-24.15 - - -	59	С		100	81	55		Air+Mist	(Brown)			22.74-22.77m: 20° undulating rough clean discontinuity. 24.22-24.24m: 20° undulating rough clean discontinuity. 24.27-24.32m: very weak light	- (4.64)	
Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552295, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. 11/12/22 - 10:36 TC9	24.80-26.30 - (0:04) - 24.95-25.12 		С		100	78	70	_	Air+Mist	(Brown)			greenish grey siltstone 24.38-24.40m: weak light greenish grey siltstone 24.72-24.90m: Very thickly to thinly bedded light greenish grey siltstone 24.85-24.92m: 70mm diameter siltstone inclusion 24.94-24.96m: 20° undulating rough clean discontinuity 25.24-25.30m: 40° undulating rough clean discontinuity 25.41-25.43m: light greenish grey siltstone.	(4.04)	
Potteries, Pottery Street, Castleford, West Yorkshire, WF	26.30-27.80 (0:06) - 26.55-26.78		С		99	73	61		Air+Mist	(Brown)			25.90-26.00m: 90° undulating rough clean discontinuity. Description on next sheet	26.80	

2		Boring Pro	ogress and	Water Ob	servations		Chisel	ing / Slow F	Progress	General	Domorl	l/0	
Significance	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	NS	
oralicii Ciiica - ca			·	•	,	·							
A OOIIS LEG, L										All dimensions in metres	Scale:	1:25	
סוו מכומוים	Method Used:	Cable Pe	tion pit +	Plan Use		ando 3000 acchio Geo			ny Hutt + m Carter	Logged RSenior + By: RStan	Checked By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1N. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:36 | TC9 |

BORFHOLFLOG

Contract:							Cli	ent:					Boreho	ole:	
		EMG P	hase 2									SEGRO			BH12
Contract Re	f:		Start:	26.09	9.22	Grou	nd Le	evel (m AOI):	1	National Grid Co-ordinate:	Sheet:		
7	765	514	End:	30.09	9.22		8	30.2	23			E:446174.0 N:325010.3		7	of 12
		Samples &	Testing	ľ	/lecha	anical	Log	<u>s</u>	<u>s</u> = ±	tion	ī.			Depth	Materia
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush	& Details Backfill &	menta	Water	Description of Strata		(Thick ness)	Legend
27.80-29.30 (0:04) 28.78-29.00		С		99	73	61		Air-Mist Air-Mist				Very weak to weak very thinly to bedded light greenish grey SILTS GRADE II. Bedding fracture: Very closely to spaced, 0° to 5°, undulating, roug <1mm clay on surfaces. (MERCIA MUDSTONE GROUP) (stratum copied from 26.80m from pi sheet) 27.03-27.04m: firm reddish broclay. Very weak thinly to medium bedded brown silty MUDSTONE. GRADE II. Bedding fractures: Closely to r spaced, 0° to 10°, undulating, rough locally with <1mm clay smear on sur (MERCIA MUDSTONE GROUP) 27.73-28.00m: light greenis siltstone 27.97-28.05m: weak light grey siltstone 28.18-28.29m: 70° undulating discontinuity with <1mm clay smarfaces 28.68-28.86m: Very weak bedded light greenish grey siltstone.	closely h, with revious wn silty reddish redium clean, faces. h grey reenish rough ear of	(0.50)	X X X X X X X X X X X X X X X X X X X
29.30-30.80 (0:04)		С		97	67	60		Air+Mist	(inona) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			29.16-29.18m: moderately we greenish grey siltstone. Extremely weak to very weak th medium bedded reddish brown MUDSTONE. GRADE II. Bedding fractures: Closely to respaced, 0° to 15°, undulating, rough locally with <1mm clay on surfaces. (MERCIA MUDSTONE GROUP) 29.30-29.35m: Drilling disturbes soft gravelly clay 29.37-29.42m: 30° undulating clean locally black stained discontinum 29.45-29.50m: 25° undulating clean locally light stained orangish discontinuity 29.45-29.80m: Occasional medium gravel size siltstone inclusioned 30.20m030.23m: 20° undulating cleally with <1mm clay on surfaces.	inly to silty medium clean, ed. NI / rough ity. rough brown fine to as. lulating	29.30	

		Boring Pro	ogress and	Water Ob	servations		Chisel	ing / Slow F	Progress	General	Domorl	' 0	
С	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remair	(5	
										All dimensions in metres	Scale:	1:25	
Me Use	ethod ed:	Cable Pe	tion pit +	Plan Used		ando 3000 · icchio Geo			nny Hutt + m Carter	Logged RSenior + By: RStan	Checked By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1N. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:36 | TC9 |

Cable Percussion +

BOREHOLE LOG

				Client:			Borehole	2 :		
EMG Pha	se 2					SEGRO			В	H13
Contract Ref:	Start:	20.09.22	Groun	d Level (m AC	OD):	National Grid Co-ordinate:	Sheet:			
765514	End:	23.09.22		88.03		E:446479.7 N:325113.2		1	of	14

ĺ			Sample	s & Testing	ľ	Mecha	anical	Log	∞ , 5	L		Depth	Material
	Depth				TCR	SCR	RQD	If	Backfill & Instru-mentation	Water	Description of Strata	(Thick	Graphic
	(m)	No	Туре	Results	(%)	(%)	(%)	If (mm)	Ba Ir me	>	·	ness)	Legend
	_										TOPSOIL	(0.30)	74 1/2 . 1/1 1/2
	0.10 0.10 - 0.20	1 2	D B									- ` ′	1. 3.1 3.1.
	- 0.20	101	ES	1xT+1xJ+1xV							F:	0.30	·7.0:70:7
- 3	-			-							Firm orangish brown very gravelly sandy SILT. Sand is fine to coarse, predominantly coarse.	-	~ · × · ×
-	0.50	102	ES	1xT+1xJ+1xV							Gravel is subangular and subrounded fine to	-	× ° . × .
- 10:30 CB	0.50	3	D	121+120+124							coarse of mixed lithologies. Occasional roots and pockets of organic matter (<5mm).	-	×°× . ×°
	- 0.50-0.70	4	В								pockets of organic matter (<5mm).	(0.90)	× × × × ×
71/1	-											-	× • × ×
-	-											<u> </u>	× .^ °× . ^
	_												×°°°×°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°
@solls.co.uk. 11/12/22	-											1.20	* * * ×
8	1.20	5	D	N-00							Firm to stiff reddish brown slightly gravelly sandy		*o * * * o
	1.20-1.65 1.20-1.65	7	SPT DSPT	N=20							SILT. Sand is fine to coarse. Ğravel is subangular and subrounded fine to coarse of mixed lithologies.	(0.50)	* * * * *
	1.20-1.65	8	В									(0.00)	^o,× ^, *o
o.uk,	-											4 70	× × × ×
IIS.C	-										Stiff reddish brown mottled grey slightly gravelly	1.70	· · · · · · · · · · · · · · · · · · ·
www.solls	- 1.80	9	D								sandy CLAY. Sand is fine to coarse. Gravel is	-	
<u> </u>	-										subangular and subrounded fine to coarse of mixed lithologies.	<u> </u>	<u> </u>
Wer	2.00-2.45		SPT	N=7							mixed infloiogles.		
233	2.00-2.45 2.00-2.45	11 12	DSPT B										
-225	-	12										-	
761	-											-	<u> </u>
гах: 0197	-											-	·
	-											(1.90)	
-552255,	2.70	13	D									-	
-/ /6			_									-	<u> </u>
0 1	-												
<u>ا</u> (و	3.00-3.45	14	UT _(UT100)	62 blows									
	_			94% recovery								_	
- MF	-											-	
e e	-											-	
orksnire,	- 3.45-3.55	15	D									- 000	
ו ב	-									-	Stiff reddish brown mottled grey slightly gravelly	3.60	×o ·× ·o
Street, Castleford, Wes	3.70	16	D								sandy SILT. Sand is fine to coarse. Gravel is	-	× · × · × · × · × · × · × · × · × · × ·
eror											subangular and subrounded fine to coarse of	-	
Cast	-										mixed lithologies.	<u> </u>	*°×** ×° × × × ×
eer, e	4.00-4.45		SPT	N=20									Ŷo×・^ ×o
7 21	4.00-4.45 4.00-4.45	18 19	DSPT B										· ×· × ×
Pottery	00 -4.4 0	פו	ט									-	× . × . × . × . × . × . × . × . × . × .
	-											-	*° × × × × ×
eries,													^ × ~ ×

The Po		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	Progress	0 1	D
Castleford:	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter	Water Depth	From	То	Duration (hh:mm)	General	Remarks
Ltd, Branch Office -	20/09/22 23/09/22 23/09/22	16:08	9.00 28.50 30.00	7.50 None None	(mm) 200 150 150	8.00 - -	8.70	9.00	00:30	Position cleared using C Hand dug inspection pit Groundwater struck at 9 8.00m depth after 20 mi Borehole drilled using 20 SPT hammer AR3104-2	to 1.20m. .00m depth, rising to nutes. 00mm tools and casing.
al So										All dimensions in metres	Scale: 1:25
Structural Soils	Method Used:		tion pit + ercussion	Plar Use		o 3000 Mar cchio GEC			ny Hutt + Bramford	Logged DNeylon + By: RStan	Checked By: AGS



BOREHOLE LOG

Contract:				Client:				Borehol	e:		
EMG Pha	se 2						SEGRO			В	H13
Contract Ref:	Start:	20.09.22	Groun	d Level (m	AOD)):	National Grid Co-ordinate:	Sheet:			
765514	End:	23.09.22		88.03	,		E:446479.7 N:325113.2		2	of	14

			Sample	s & Testing	ı	Mecha	anical	Log	tio" &	e.		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	Log If (mm)	Backf Instr menta	Water	Description of Strata	(Thick ness)	Legend
/12/22 - 10:37 TC9	4.90 5.00-5.45	20 21	D UT _(UT100)	150 blows 78% recovery							Stiff reddish brown mottled grey slightly gravelly sandy SILT. Sand is fine to coarse. Gravel is subangular and subrounded fine to coarse of mixed lithologies. (stratum copied from 3.60m from previous sheet)	(3.60)	* · · · · · · · · · · · · · · · · · · ·
co.uk. 11	- - 5.45 - 5.55 -	22	D									(3.00)	*o * * * * * * * * * * * * * * * * * *
ask@soils.	5.70	23	D									_	* · · · · · · · · · · · · · · · · · · ·
99, Web: www.soils.co.uk, Email:	6.00-6.45 - 6.00-6.45 - 6.00-6.45 	25 26	SPT DSPT B	N=29								-	*** ** * * * * * * * * * * * * * * *
I: 01977-552255, Fax: 01977-5522	7.30	27	D								Stiff to very stiff reddish brown slightly gravelly sandy SILT. Sand is fine to coarse and udstone derived. Gravel is subangular fine to coarse of mudstone.	7.20	× · × · × · × · × · × · × · × · × · × ·
t Yorkshire, WF10 1NJ. Te	7.50-7.95 - 7.50-7.95 - 7.50-7.95	29 30	DSPT B	6,6/9,12,15,14 for 70mm				• •		<u> 1</u>	(MERCIA MUDSTONE GROUP)	(1.80)	× × × × × × × × × × × × × × × × × × ×
otteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 10:37 TC9	8.70	31	D					000000000000000000000000000000000000000		1		9.00	***** **** **** **** **** **** ** *** *** *** *** *** *** *** *** *** *** *** *** **

lhe		Boring Pro	ogress and	Water Ob	servations		Chise	lling / Slow	Progress	Conoral	Domor	l.o	
Castlerord:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Reman	KS 	
ası			Depth	Depth	(mm)	Depth			(
CIICE													
branch													
ă													
2													
SIIS											Ta .		
N B										All dimensions in metres	Scale:	1:25	
ij	Method	Inspec	ction pit +	Plan	t Dando	3000 Mar	k 2 +	Drilled Jo	nny Hutt +	Logged DNeylon +	Checked		
Stru	Used:		ercussion -	+ Used	d: Coma	cchio GEC	205	By: L	Bramford	By: RStan	By:		AGS
,,		Rota	rv Cored							1	-		

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web



Contract:		Client:		Boreho	le:		
EMG Phas	se 2		SEGRO			Bŀ	1 13
Contract Ref:	Start: 20.09.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End: 23.09.22	88.03	E:446479.7 N:325113.2		3	of	14
						=	

ſ			Sample	s & Testing		Mecha	anical	Log ∞ <u>, </u> §	_		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If Backfill & Backfill	Water	Description of Strata	(Thick ness)	Graphic Legend
	9.00-10.50 9.00-9.38 - 9.00-9.38	33	SPT	8,12/14,16,20 for 75mm			•		•	AZCL. (MERCIA MUDSTONE GROUP)	(0.55)	AZCL
10.01 10.01	- - - - 10.00 - 10.05-10.22	35 36	ES C		57	29	16			Extrememly weak reddish brown MUDSTONE. Recovered as very clayey subangular to subrounded fine to medium gravel. GRADE IVa. \(\(\(\)(MERCIA MUDSTONE GROUP\)\) Extremely weak greenish grey thinly laminated SILTSTONE, partly recovered as fine to medium angular gravel. \(\((\)(MERCIA MUDSTONE GROUP\)\) Extremely weak reddish brown MUDSTONE.	9.80	D D D D D D D D D D D D D D D D D D D
	- 10.50-12.00 - - -				- X	*	*		• • • • • • • • • • • • • • • • • • • •	Fractures: Closely spaced, randomly orientated, smooth, undulating, occasionally stained black on surfaces. (MERCIA MUDSTONE GROUP) 10.20-10.50m: Closely spaced sub-horizontal rough undulating bedding fractures.	-	
	- - - - 11.50-11.62 -	37	С		97	19	0	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			(3.55)	
, , , , , , , , , , , , , , , , , , , ,	- 12.00-13.50 - - - -				*	X	*		• • • • • • • • • • • • •	12.00-12.25m: Firm reddish brown very gravelly CLAY. Gravel is fine to medium mudstone lithorelics 12.25m: very closely to closely spaced randomly orientated fractures, stained black 12.45-12.50m: Bedding fractures infilled with very gravelly clay.	-	
a constant and a cons	- - - 13.10-13.20 -	38	С		90	35	10		• • • • • • • • • • • • • • • • • • • •	12.80-12.85m: Bedding fractures infilled with very gravelly clay.	-	

		Boring Pro	ogress and	Water Ob	servations		Chisel	ing / Slow F	Progress	General	Domor	ادم	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remai	KS	
;			Ворит	Борит	(11111)	Ворит							
										All dimensions in metres	Scale:	1:25	
) I	Method Used:	Cable Po	ction pit + ercussion -	Plan Used		3000 Mar			ny Hutt + Bramford	Logged DNeylon + By: RStan	Checked By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1N. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:37 | TC9 |



BOREHOLE LOG

Contract:			Client:		Boreho	ole:	
EMO	Phase 2			SEGRO			BH13
Contract Ref:	Start:	20.09.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:		
765514	End:	23.09.22	88.03	E:446479.7 N:325113.2		4	of 14
Samples	s & Testina	Mecha	nical Log ∞ . 등 .			Donth	Matorial

	5		Samples	& Lesting	l l	/lecha	anicai	Log	tion =	ē		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instru- mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
	13.50-15.00				1	1	1				13.45-13.48m: extremely weak greenish grey	13.55	
TC9	- - - 13.85-13.97	39	С								Extremely weak reddish brown thinly laminated MUDSTONE. With fine to medium gravel size pockets of greenish grey siltstone. GRADE III. (MERCIA MUDSTONE GROUP)	(0.50)	
37	_										Extremely weak reddish brown MUDSTONE.	⁻ 14.05	
otteries, Pottery Street, Častleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 10:37 TC9	- -				90	50 	0				GRADE II. Fractures: Very closely spaced, randomly orientated, smooth, planar. (MERCIA MUDSTONE GROUP)	(0.50)	
soils.co.uk	-										14.50-14.55m: greenish grey siltstone with bedding fractures infilled with reddish brown very gravelly clay.	14.55 - -	
mail: ask@e	-										Extremely weak reddish brown MUDSTONE. Occasional fine to medium gravel size pockets of greenish grey siltstone. GRADE II.	- (0.55)	
.uk, E	15.00-16.50 -					A	1				Fractures: Closely spaced, randomly orientated. \((MERCIA MUDSTONE GROUP)\)	15.10	3 0 0
oils.co	-										Reddish brown very clayey sandy angular to	(0.30)	0.00
b: www.s	15.30	40	D								subangular fine to coarse GRAVEL of extremely weak mudstone lithorelics. GRADE III. \((MERCIA MUDSTONE GROUP)\)	15.40	
9, We	-										Very stiff slightly sandy gravelly CLAY. Sand is fine to coarse mudstone derived. Gravel is angular	(0.30)	
7-55229	-				90	50	0				to subangular fine to coarse mudstone lithorelics. (MERCIA MUDSTONE GROUP)	15.70	× × ×
ax: 0197	-										Stiff greenish grey slightly gravelly thinly laminated SILT. (MERCIA MUDSTONE GROUP)	⁻ 15.95 -	× × × × ×
52 <u>2</u> 55, F	-										Extremely weak greenish grey SILTSTONE. (MERCIA MUDSTONE GROUP)	- - (0.55)	
1977-5	-										Extremely weak reddish brown MUDSTONE. GRADE II.	-	
√J. Tel: (16.50-18.00				*	*	*				Fractures: Closely spaced, randomly orientated, with black specks on surfaces.	16.50	
WF10 11	-										(MERCIA MUDSTONE GROUP) Extremely weak reddish brown MUDSTONE recovered NI. GRADE II.	- (0.45)	
orkshire, '	-										Fractures: Very closely spaced, randomly orientated, with dark brown staining. (MERCIA MUDSTONE GROUP)	16.95	
d, West Y	- - 17.20 - 17.30	41	С		93	25	0				Extremely weak reddish brown MUDSTONE. GRADE II.	17.30	
stlefor					93		ı				(MERCIA MUDSTONE GROUP) Extremely weak reddish brown MUDSTONE	17.00	
Street, Čas	-										thickly interlaminated with greenish grey fine grained SANDSTONE and SILTSTONE. (MERCIA MUDSTONE GROUP)	⁻ 17.55 -	
ottery	<u>.</u>										Description on next sheet	[
ies, P	-											-	
] ite					L Ÿ				▶.• ⊟.••			L	

		Boring Pro	ogress and	Water Ob	servations		Chisel	ing / Slow F	Progress	General Remarks			
I	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	NS	
										All dimensions in metres	Scale:	1:25	
)	Method Inspection pit + Plant Dando 3000 M Jsed: Cable Percussion + Used: Comacchio Gl							nny Hutt + Bramford	Logged DNeylon + By: RStan	Checked By:		AGS	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01. Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web:



BOREHOLE LOG

Contract:		Client:		Borehol	e:		
EMG Pha	ise 2		SEGRO			В	H13
Contract Ref:	Start: 20.09.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End: 23.09.22	88.03	E:446479.7 N:325113.2		5	of	14
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			Samples	s & Testing	N	Лесhа	anica	Log	∞ ' ië	₩.		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQE (%)	Log If (mm)	Backfill & Instru- mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
I/12/22 - 10:37 TC9	18.00-19.50		С		97	50	43				Extremely weak reddish brown MUDSTONE. GRADE II. Fractures: Closely spaced, randomly orientated. (MERCIA MUDSTONE GROUP) (stratum copied from 17.55m from previous sheet) 8.15-18.30m: Thinly interlaminated with greenish grey siltstone.	(1.40)	
Email: ask@soils.co.uk. 11	- - - -				•	•	V				Stiff reddish brown slightly sandy gravelly CLAY, with frequent thick laminae (<10m) of greenish grey silt. Sand is fine to medium and mudstone derived. Gravel is angular to subangular fine to coarse mudstone lithorelics. GRADE IVa. (MERCIA MUDSTONE GROUP) Black greenish grey thinly cross laminated	- 18.95 - (0.40) - 19.35 - 19.50	
Web: www.soils.co.uk, E	19.50-21.00				•						SANDSTONE. (MERCIA MUDSTONE GROUP) Extremely weak reddish brown MUDSTONE. GRADE II. (MERCIA MUDSTONE GROUP)19.65-19.70m: Weak greenish grey siltstone19.95-20.20m: Bedding fractures: very closely	-	
:255, Fax: 01977-552299;	20.20-20.35	43	С		90	57	48				spaced, rough, undulating, infilled with subangular gravel. 20.30m: Becoming very weak with closely spaced randomly orientated rough undulating fractures, with occasional black staining on fracture surfaces.	-	
Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 10:37 TC9	21.00-22.50				*	*	*	_			21.00m: Closely spaced randomly orientated smooth undulating fractures with occasional black staining along surfaces.	(3.00)	
ttery Street, Castleford, West Yor					107	27	15				21.95-22.20m: Rough undulating bedding fractures, infilled (<50mm) with sandy gravel.	-	
otteries, Po	22.35-22.50	44	С		•	V						22.50	

]		Boring Pro	ogress and	Water Ob			Chiselling / Slow Progress			General Remarks			
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	TCIIIaii	~~~ ———	
2													
;										All dimensions in metres	Scale:	1:25	
,	Method Inspection pit + Plant Dando 300 Used: Cable Percussion + Used: Comacchi Refere Cored				3000 Mar			ny Hutt + Bramford	Logged DNeylon + By: RStan	Checked By:		AGS	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web.



BOREHOLE LOG

		Client:		Borehole) :		
EMG Phase 2			SEGRO			В	H13
Contract Ref: Start:	20.09.22 Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514 End:	23.09.22	88.03	E:446479.7 N:325113.2		6	of	14

			Samples	s & Testing	N	/lecha	anical	Log	& - ion	-		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instru- mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
	22.50-24.00 22.63-22.85		С			A	A				Weak greenish grey fine to medium grained SANDSTONE with fine to medium and size vugs. (MERCIA MUDSTONE GROUP)	- 22.75	
Potteries, Pottery Street, Častleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 10:37 TC9					97	21	13				Extremely weak reddish brown MUDSTONE. Fractures: Very closely to closely spaced, randomly orientated, undulating, with dark brown staining on surfaces. (MERCIA MUDSTONE GROUP) 23.05-23.15m: Greenish grey siltstone 23.15-23.70m: Rough undulating fracture, approximately 80°, with dark brown staining along the fracture surface. 23.70-23.80m: Extremely weak greenish grey thinly laminated siltstone.	- (1.60)	
b: www.soils.co.uk, Ema	24.00-25.50 - - -				X	*	*				Weak greenish grey fine to medium gained SANDSTONE with fine to medium sand size vugs.	_ - - 24.35 -	
01977-5522 <u>9</u> 9, We	- - - 24.82-25.12	46	С		90	47	29				(MERCIA MUDSTONE GROUP) Extremely weak reddish brown MUDSTONE thinly interbedded with greenish grey SILTSTONE.	24.80	
1977-552 <u>2</u> 55, Fax:	- - -										Bedding fractures: Closely spaced, rough, infilled with reddish brown gravelly clay and green silt. (MERCIA MUDSTONE GROUP) 24.95-25.00m: Bedding fracture infilled (<100mm) with reddish brown clay.	- (0.70) -	
iire, WF10 1NັJ. Tel:¯0	25.50-27.00 - -				X	*	*				Weak to medium strong greenish grey fine to medium grained SANDSTONE. (MERCIA MUDSTONE GROUP) 25.65-25.80m: Interspersed with reddish brown siltstone.	25.50	
Pottery Street, Castleford, West Yorksh	26.50-26.72	47	С		93	29	23				25.90m: Abundant fine to medium sand size vugs, Very stiff reddish brown slightly sandy CLAY. Sand is fine mudstone derived. GRADE IVb. (MERCIA MUDSTONE GROUP) 26.38-26.45m: Weak greenish grey fine to medium grained sandstone with fine to medium sand size vugs.	26.00	
Potteries,	-					•	V					-	

	Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow l	Progress	General	Domor	ko	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remai	KS	
				, ,								
,												
									AH 1:			
						L.,			All dimensions in metres	Scale:	1:25	
Method Used:								nny Hutt + Bramford	Logged DNeylon + By: RStan	Checked By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01. Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web:



BOREHOLE LOG

Contract:		Client:		Borehole			
EMG Pha	se 2		SEGRO			Bł	H13
Contract Ref:	Start: 20.09.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End: 23.09.22	88.03	E:446479.7 N:325113.2		7	of	14
						_	

			Samples	s & Testing	ľ	Mecha	anical L	.og ∞ <u>.</u>	وا <u>ي</u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%) (ı	og Sackill &	mentatio Water	Description of Strata	(Thick ness)	Graphic Legend
- 10:37 TC9	_ 27.00-28.50 - - - - - - 27.50-27.75	48	С							Very stiff reddish brown slightly sandy CLAY. Sand is fine mudstone derived. GRADE IVb. (MERCIA MUDSTONE GROUP) (stratum copied from 26.00m from previous sheet) 27.00m: Fine to coarse gravel size pockets of greenish grey silt. Stiff greenish grey sandy SILT. (MERCIA MUDSTONE GROUP)	27.45	* · · · · · · · · · · · · · · · · · · ·
il: ask@soils.co.uk. 11/12/22	-				100	53	0			Stiff reddish brown slightly sandy slightly gravelly CLAY. Interspersed with greenish grey sandy silt. Sand is fine to medium mudstone and siltstone derived. Gravel is angular to subangular fine to medium mudstone and siltstone lithorelics. GRADE IVa. (MERCIA MUDSTONE GROUP)	(0.75)	
9, Web: www.soils.co.uk, Emai	28.50-30.00 - - - - -				*	*	*			Extremely weak reddish brown MUDSTONE with occasional fine to medium gravel size pockets of siltstone. GRADE II. (MERCIA MUDSTONE GROUP) 28.45-28.55m: Thinly interbedded with greenish grey siltstone. 28.55-28.75m: Very closely spaced randomly orientated fractures. 29.00m: Rare pockets of siltstone.	- 28.45 - - - - -	
977-552255, Fax: 01977-55229	29.20-29.50 - - - -	49	С		100	6	4				- (1.55)	
. Tel: 01	-					V	V		•	Borehole terminated at 30.00m depth.	30.00	
tteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 10:37 TC9											-	

<u> </u>		Boring Pro	ogress and	Water Ob	servations		Chisel	ing / Slow F	Progress	General Remarks			
Significance	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	15	
Idion Omos - ca			•	•		·							
ו סטווא בוע, ה										All dimensions in metres	Scale:	1:25	
Oll detail a	Method Used:								nny Hutt + Bramford	Logged DNeylon + By: RStan	Checked By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1N. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:37 | TC9 |

Used: Cable Percussion + Rotary Cored

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STRUCTURAL SOILS

BOREHOLE LOG

Contract:				Client:		Borehole	e:		
EMG Pha	se 2				SEGRO			В	H14
Contract Ref:	Start:	15.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	27.09.22		84.68	E:446455.2 N:325059.0		1	of	11

2.00-2.45	L	•	-	7 1 1	Liiu.		V			, ,,,				21110100121110200010	•	0, 1,
10				Sample	s & Testing	ı	Mecha	nical	Log	s =	∞ _	Б.	_		Depth	Material
10			No	Type	Dogulto	TCR	SCR	RQD	lf	ush turns Detai	ackfill	entati	Nate	Description of Strata	(Thick	Graphic
0.10		(111)	INO	туре	Results	(%)	(%)	(%)	(mm)	트움~	<u>~</u>	Ĕ		TOROGU	ness)	·
0.20		. 0.40		_								\mathbb{R}^{2}		TOPSOIL	- 	
0.20	ŀ	0.10		В								36			(0.40)	· · · · · · · · · · · · · · · · · · ·
0.50	ŀ				1xT+1xJ+1xV							1 72			0.40	
1.00	3												ŀ	Stiff reddish brown slightly gravelly sandy	0.40	//· \\ //· \\ //
0.70	-	0.50	102	ES	1xT+1xJ+1xV									CLAY. Sand is fine to coarse. Gravel is	-	<u> </u>
0.70-0.90	20-1-1-0-0-1	•												subangular to subrounded fine to coarse of	-	
1.00	4	0.70		D										metamorphic rock, sandstone.	-	<u> </u>
1.20		0.70-0.90	4	В										•		<u> </u>
1.20	-	_										۰			-(1 30)	
1.20-1.50 6	3	1.00	103	ES	1xT+1xJ+1xV						₽	*			(1.50)	
1.20-1.50 6		. 1 20	_								::B				-	
1.50-1.63	all. ash @solls.co.an.	1.20-1.50	6 6	UT _{(IIT100})	150 blows						: :目:				-	
2.00-2.45	-	•		- (01100)	83% recovery						細	***			-	
2.00-2.45		1.50-1.63	7	D								٠¸٠			-	
2.00-2.45	3	•									淵	• • •			1.70	
2.00-2.45	WWW.30113.00.dix,										:目		Ī	Firm reddish brown sandy SILT. Sand is		* ·× · ×
2.00-2.45		1.80	8	D							淵	**		fine to coarse, predominantely coarse.	-	× ·× ·
2.00-2.45 10 DSPT				ODT	N. 40						៕	$\overset{\circ}{\sim}$			_	* × ·
2.00-2.45 11 B	;	2.00-2.45	10	DSPT	N=12						::I	• • •			-	× · × ×
2.90 12 D 3.00-3.45 13 UT _(UT100) 150 blows 89% recovery -3.45-3.55 14 D	25.	2.00-2.45									淵				(1.10)	× · · ×
2.90 12 D 3.00-3.45 13 UT _(UT100) 150 blows 89% recovery -3.45-3.55 14 D	?										끪	***			-	× · × ×
2.90	5										淵	***			-	· . · · ·
2.90	<u> </u>										細	• • •				* * · ×
2.90	87														_	* * * * *
2.90 12 D 150 blows 89% recovery -3.00-3.50 15 B B -3.45-3.55 14 D Coarse. Coars	3										譜				2.80	* .× . ×
3.00-3.45 13 UT _(UT100) 150 blows 89% recovery - 3.00-3.50 15 B B - 3.45-3.55 14 D Coarse.	2	2.00	10	D								***		laminated sandy SILT. Sand is fine to	-	^ *
3.00-3.50 15 B 89% recovery	2	_			150 blows						淵	•••			_	* * . * *
3.45-3.55 14 D		•			89% recovery						::目				-	× × × ×
	2	3.00-3.50	15	В							∵H;				-	× ^ × *
	5										:目					× · × ^
		3 45-3 55	14	D							淵				- (1 50)	× . × . ×
3.70 16 D	- 1		'	ر							嘂	•••			(1.50)	× × ×
A.00-4.45	3	. 0.70		_							譜				-	^ × × ×
4.00-4.45	5	3.70	16	ט							谱				_	•× • ×
4.00-4.45		-									鱛				-	× × ×
4.00-4.45 18 DSPT	5	4.00-4.45		SPT	N=31						H	• • •			-	× × × ×
4.00-4.45	3	4.00-4.45		DSPT							淵				-	× × × *
Description on next sheet	י מייכול מייככל מפוניוניות אנכני	4.00-4.45	19	В							淵				4.30	× · × ×
	- 1										::目		Ī	Description on next sheet		* * * * *
											·:·H	•••				* .*

ĭ												
<u>ש</u>		Boring Pro	ogress and	Wate	r Obs	servations		Chisel	ling / Slow F	rogress	Caparal	Domarka
sileioia	Date	Time	Borehole Depth	Cas	"ig	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)		Remarks
IIS Ltd, Brancii Oilice - Ca	21/09/22 26/09/22 26/09/22 27/09/22 27/09/22	17:34 10:00 16:30 09:00 16:30	12.76 12.50 21.90 21.90 24.90	12.0 12.0 12.0 12.0 No	50 50 00	200 200 146 146 146	10.80 9.20 - 9.20 -	12.30	12.50	00:30	Position cleared using C Hand dug inspection pit Borehole drilled using 2: then 146mm casing froi 200 litres of water added and 12.00m to aid drillin Borehole installed with secompletion.	to 1.20m. 00mm tools and casing, m 12.00m onwards. d added between 9.00m ig.
<u></u>											All dimensions in metres	Scale: 1:25
off ucture	Method Used:		tion pit + ercussion -		Plant Used		ndo 3000 cchio GEC	I		ny Hutt + m Carter	Logged JAlton + By: RSenior	Checked By: AGS

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Structural Soils Lid, Branch Office - Castleford: The Pottery Street, Castleford, West Yorkshire, WF10 1\overline{10}. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. | 11/12/22 - 10:37 | TC9 |



BOREHOLE LOG

Contract:				Client:		Borehole	9:		
EMG Pha	se 2				SEGRO			В	H14
Contract Ref:	Start:	15.09.22	Groun	nd Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	27.09.22		84.68	E:446455.2 N:325059.0		2	of	11

				1										
			Sample	s & Testing	1	Mecha	anical	Log	s <u>s</u>	ა ⁻ ნ	<u>_</u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfill & Instru- mentation	Water	Description of Strata	(Thick ness)	
11/12/22 - 10:37 TC9	4.70 - 5.00-5.45 5.00-5.45 - 5.00-5.45	20 22 23	D SPT DSPT B	N=15				,				Stiff fissured reddish brown, mottled grey, sandy SILT. Sand is fine to coarse. (stratum copied from 4.30m from previous sheet)	- - - - (1.70)	* · · · · · · · · · · · · · · · · · · ·
Email: ask@soils.co.uk	5.70	24	D										6.00	* · · · × * · · · · · · · · · · · · · ·
-5522 <u>9</u> 9, Web: www.soils.co.uk, E	6.00-6.45 6.00-6.45	26	SPT B	N=37								Stiff dark brown fissured slightly sandy gravelly SILT. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of mixed lithologies including quartzite, metamorphic rock, sandstone.	(1.20)	* · · · · · · · · · · · · · · · · · · ·
Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 10:37 TC9	7.30 7.50-7.95 7.50-7.95 7.50-7.95	27 29 30	D SPT DSPT B	N=32								Stiff dark brown sandy SILT. Sand is fine to coarse.	7.20	* \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
teries, Pottery Street, Castleford, West Yorkshir	8.70	31	D										- (2.50)	*

Pot													
The		Boring Pro	ogress and	Water Ob	servations		Chisel	lling / Slow F	Progress	Canaral	Damarl	,	
Castleford:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration	General	Remark	(S	
astle	Date	Time	Depth	Depth	(mm)	Depth	FIOIII	10	(hh:mm)	6. SPT hammer AR3104-2		00%) 1	
										0. Si Thammer ANSTON-2	022 (L _r = 04.	.00 /0) u	seu.
Office													
3ranch (
Bra													
ă,													
Solls										All dimensions in metres	Scale:	1:25	
ural	Method	Inenor	tion pit +	Plan	t D:	ando 3000 ·		Drilled Jon	ny Hutt +	Logged JAlton +	Checked	1.23	
truct	Used:		ercussion ·			cchio GEC			m Carter	By: RSenior	By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 INJ. Tel: 01977-552255, Fax: 01977-552299, Wet



BOREHOLE LOG

Contract:				Client:		Borehole	e:		
EMG Phas	se 2				SEGRO			В	H14
Contract Ref:	Start:	15.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	27.09.22		84.68	E:446455.2 N:325059.0		3	of	11

			Sample	s & Testing	1	Mecha	anical	Log	s i	∞ ' ië	<u></u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfill & Instru- mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
-	9.00-9.45 9.00-9.45 9.00-9.45	33 34	SPT DSPT B	N=31								Stiff dark brown sandy SILT. Sand is fine to coarse. (stratum copied from 7.20m from previous sheet)	9.70	* · · · · · · · · · · · · · · · · · · ·
- - - - - - -	10.30 10.50-10.95	35	D SPT	N=29								Stiff dark reddish brown slightly gravelly sandy SILT. Sand is fine to coarse. Gravel is subrounded and subangular fine to coarse of mixed lithologies including quartzite, metamorphic rock, sandstone and mudstone.	(1.50)	* · · · · · · · · · · · · · · · · · · ·
	10.50-10.95 10.50-10.95	37	DSPT B									Stiff to very stiff reddish brown, mottled light greenish grey, silty gravelly CLAY. Gravel	11.20	*
-	11.70	39	D							*		is angular to subangular fine to coarse lithorelics of mudstone. With occasional pockets of grey siltstone. GRADE IVb. (MERCIA MUDSTONE GROUP)	(1.30)	x
-	12.00-12.43 12.00-12.43 12.00-12.45	41	SPT DSPT B	3,6/10,11,15,14 for 55mm									-	X
-	12.50-12.90 (0:01) 12.50-12.77		SPT	13,12/24,26	50	10	10		+Mist			AZCL (MERCIA MUDSTONE GROUP)	12.50	AZCL
-	12.50-12.77 12.80 12.90-14.40 (0:05)	44 45	DSPT D	for 65mm	93	43	0	NI 30 80	Air+Mist Air+Mi (Brown) (Brow			Stiff to very stiff thickly laminated to very thinly bedded reddish brown, mottled light greenish grey, silty CLAY with frequent angular to subangular fine to medium gravel size lithorelics of mudstone. GRADE III. (MERCIA MUDSTONE GROUP) Description on next sheet	12.90	× -×
												Description on next sheet 13.32-13.55m: 85°-90° undulating rough black stained locally orangish brown	(1.10)	

	Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	rogress	General	Domor	l.o	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remai	KS	
,												
									All dimensions in metres	Scale:	1:25	
Method Used:	Cable P	ction pit +	Plan Used		ndo 3000 cchio GEC			ny Hutt + m Carter	Logged JAlton + By: RSenior	Checked By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Soils Lid, Branch Office - Castleford: The Pottery Street, Castleford, West Yorkshire, WF10 1\overline{10}. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. | 11/12/22 - 10:37 | TC9 |

POPELIOI E I OC

Contract:							Cli	ient:				Boreho		
		EMG F	Phase 2								SEGRO			BH14
Contract Ref	:		Start:	15.0	9.22	Grour	nd Le	evel (m AOD)	:	National Grid Co-ordinate:	Sheet:		
7	65	514	End:	27.0	9.22		- 8	84.6	8		E:446455.2 N:325059.0		4	of 11
		Samples &	Testing	ı	Mecha	anical L	_og		sils L- tion	<u> </u>			Depth	Materia
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%) (lf mm)	Flush Retur	& Details Backfill & Instru- mentation	Water	Description of Strata		(Thick ness)	Graphic Legend
							NI 30 80				stained discontinuity. Extremely weak to very weak laminated to thinly bedded reddish MUDSTONE. GRADE II.	brown	-	
13.90	46	D		93	43	0 _	¥	Air+Mist	Srown		Bedding fractures: Very close to spaced, 0° to 5°, undulating, s locally stained black and orangish brown	mooth,	14.00	
									<u>n</u>		Fracture set 2: Extremely closely t closely spaced, randomly orie	o very ntated,	(0.35)	
				,			A				smooth and rough, locally black orangish brown stained. (MERCIA MUDSTONE GROUP)	k and	14.35	
14.40-15.90 (0:05)						1		1			(stratum copied from 12.90m from pr	evious	-	
14.62-14.78	47	С									greenish grey siltstone 13.60-13.80m: 60° undulating s	·	-	
											clean locally orangish brown s		-	
				97	73	20		Air+Mist	OWD)		13.98-14.00m: Very wear greenish grey siltstone with occ	asional	-	
					/3			ļ Ā	(Br		black specks on discontinuity surface Very stiff thickly laminated to very	thinly	-	
											bedded reddish brown CLAY. Frangular to subangular fine to magravel size lithorelics. GRADE III.	equent nedium	-	
											(MERCIA MUDSTONE GROUP) 14.10-14.12m: Stiff light greenis	sh grey	-	
											silt. Extremely weak to very weak	thickly	-	
15.90-17.40 (0:06)				^		A					laminated to thinly bedded reddish mottled light greenish grey, MUDSTO	brown, DNE.	-	
							NI 50 130				Bedding fracture: Very closely to spaced, locally extremely closely s undulating, smooth, clean, locally	paced,	-	
											with occasional black staining on sur (MERCIA MUDSTONE GROUP)	faces.	-	
								Air+Mist	(UMC		14.78-14.85m: Weak silty mudst 15.08-15.42m: 85° to 90° und smooth orangish brown stained and	ulating	-	
16.63-16.75	48	С		97	47	7		Air,	(Bro		speckled discontinuity 15.29-15.36m: 50° undulating s		- (4.75) -	
											locally orangish brown stained discorwith rare black specks.	ntinuity	-	
											15.60-15.62m: Extremely wear greenish grey siltstone 15.69-15.70m: Extremely wear	Ĭ	-	
17 10 10 55				<u> </u>	L L			<u> </u>			greenish grey siltstone 15.75-15.90m: Extremely wea		-	
17.40-18.90 (0:05)				1		🕇		170	e E		thinly laminated mudstone 15.95-15.97m: Strong ligh siltstone.	t grey	-	
				100	47	27		Air+Mist	(Browr		16.14-16.16m: Strong ligh siltstone.		-	
	1										16.27-16.30m: Strong ligh	t grey		

		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow P	rogress	General	Domorl	' 0	
D	ate	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	15	
										All dimensions in metres	Scale:	1:25	
Met Use	thod ed:	Cable Pe	tion pit +	Plan Used		ando 3000 cchio GEC	I		ny Hutt + m Carter	Logged JAlton + By: RSenior	Checked By:		AGS

siltstone.

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:37 | TC9 |

21.75 21.90



Contract:							Cli	ent:				Boreho	le:	
		EMG	Phase 2								SEGRO			BH14
Contract Ref	f:		Start:	15.0	9.22	Grou	ınd Le	evel (n	n AOD):		National Grid Co-ordinate:	Sheet:		
7	765	514	End:	27.0	9.22		8	34.68	3		E:446455.2 N:325059.0		5	of 11
		Samples	& Testing		Mech	anical	Log	υ	<u> </u>	-			Depth	Materia
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush	Backfill & Instru-	Water	Description of Strata		(Thick ness)	Graphi Legen
18.44-18.63 18.90-20.40		С		100	47	27	NI 50 130	Air+Mist (Brown)			16.30-16.39m: Drilling dis recovered as (soft) gravelly clay 16.48-16.58m: 90° undulating clean, locally lightly stained orange 16.59-16.60m: Light greenis siltstone 16.84-17.06m: 75° undulating black stained discontinuity 17.05-17.15m: 80°-90° undulating black stained discontinuity 17.27-17.29m: Extremely we	smooth sh grey smooth dulating rangish	- - - - - -	
19.50-19.80		С			72	45	*	+Mist			greenish grey siltstone	sturbed, e gravel dulating t black	19.10	

			10	00	72	45		Air+l\ (Brov	17.80-19.10m: extremely closely to	Ė
				ı	1	1		(B)	very closely spaced, randomly orientated,	Ė
							NI		undulating, smooth and rough, clean and 1,4 65)	ιĒ
							80		black stained discontinuities.	F
_							300		Extremely weak to very weak thickly	Ė
-									laminated to thinly bedded reddish brown,	þ
_									mottled light greenish grey, MUDSTONE.	E
									Bedding fracture: Very closely to closely	þ
				↓	V	₩			spaced, locally extremely closely spaced,	E
20.40-21.90					$\overline{}$	—	1	Å	undulating, smooth, clean, locally rough,	Ė
(0:05)									with occasional black staining on surfaces.	F
20.40-20.53	52	С							(MERCIA MUDSTONE GROUP)	Ė
							ΙL		(stratum copied from 14.35m from previous)	F
							$oldsymbol{+}$		sheet) 20.75	ŧ
20.80-21.05	53	С					ΙŤ		18.90-19.10m: strong thinly bedded	
- 20.00 21.00									light grey siltstone.	
_									Extremely weak to very weak very thickly to L	
								ist (m	thinly, locally medium, bedded reddish	
			10	00	97	81	NI 120	Air+Mist (Brown)	brown, mottled light greenish grey,	
<u> </u>			'		٠,	01	260	P P P	MUDSTONE. (1.00)	,
I	1	I		1 1	1 1	1	1	-	Dodding frosturos: Von, closely to medium	

NI 60

260

Air+Mist (Brown)

100 53 17

	orown, mouled light greenish grey, p
	MUDSTONE.
	Bedding fractures: Very closely to medium
	spaced, 0° to 5°, undulating, smooth, clean
	and lightly black stained.
	MERCIA MUDSTONE GROUP)
	20.09-20.15m: Extremely weak to very
	weak thinly and thickly laminated light
	greenish grey siltstone.
	Very weak to weak thinly to medium
٦	, , , , , , , , , , , , , , , , , , ,

Very weak to weak thinly to medium
bedded light greenish grey SILTSTONE
with frequent 2-5mm diameter vugs.
GRADE III.
Bedding fractures: Closely to medium

Bedding fractures: Closely to medium spaced, 0° to 5°, undulating, rough, with frequent black specks locally clean. (MERCIA MUDSTONE GROUP)	_ (0.62) _ _
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	Boring Pro	ogress and	Water Ob	servations		Chiselli	ing / Slow F	rogress		General l	Domor	ko	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter	Water Depth	From	То	Duration (hh:mm)		General	Temai	NS	
		Берит	Берит	(mm)	Берит			, ,					
									All dimens	ions in metres	Scale:	1:25	
Method Used:		ction pit + ercussion -	Plan Used		ando 3000 cchio GEC			ny Hutt + m Carter	Logged By:	JAlton + RSenior	Checked By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PnVersion: v8_07_1 Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Soils Lid, Branch Office - Castleford. The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk, | 11/12/22 - 10:37 | TC9 |

21.90-23.40

(0:05)



BOREHOLE LOG

120												DONLII	OL		
Contract:								Cli	ent:				Boreho	ole:	
		EMC	3 Pha	se 2								SEGRO			BH14
Contract Re	f:			Start:	15.0	9.22	Grou	nd L	evel	(m AOD):		National Grid Co-ordinate:	Sheet:		
765514 End: 27					27.0	9.22		8	84.0	68		E:446455.2 N:325059.0		6	of 11
Samples & Tes				ting		Mech	anical	Log	U	tion = S	Ē			Depth	Material
Depth			sults	TCF (%)		RQD (%)		Flush	& Deta Backfi Instri menta	Water	Description of Strata		(Thick ness)	Graphic Legend	
												to thinly bedded with interbeds of ve	y thinly ry weak	22.52	

Depth		Campio	3 & Testing	TOD	Joon	DOD	_ <u>,,</u>	Lail B	Baita ≡	Water		Description of Strata		Depth (Thick	
(m)	No	Type	Results	(%)	(%)	(%)	(mm)	Flush Returns & Details	Backfill of Instru- Instru- mentatio	×		Description of Strata		ness)	Leger
				100	53	17	NI 60 260	Air+Mist (Brown)			to thinly be reddish be Extremely thinly bed greenish Bedding undulating	25-21.57m: Siltstone is venedded with interbeds of ver rown mudstone. Weak thickly laminatedded reddish brown, mottle grey, MUDSTONE. GRAD fractures: Very closely s g, rough, clean, locally	y weak	(0.98)	
23.19-23.33	54	С										MUDSTONE GROUP)			
23.40-24.90 (0:06)					X	X	*	X			discontinu Medium light gree Bedding spaced, (locally w surface.	40-22.50m: 50° undulating uity with occasional black sp strong thinly to medium I nish grey SILTSTONE. GR fractures: Closely to n or to 10°, undulating, rough ith occasional black spect MUDSTONE GROUP)	becks. bedded ADE I. nedium , clean,	23.50	X
24.00	55	D		100	22	13	NI NI 280	Air+Mist (Brown)			(stratum of sheet) Extremely reddish by Bedding 5°, undu <1mm cla	copied from 21.90m from proceed from 21.90m from proceed from MUDSTONE. GRADI fractures: Closely spaced lating, rough, clean, local sy surfaces. MUDSTONE GROUP)	bedded E II. , 0° to	(1.40)	X X
	56	С		•				•			clean disc 	55-22.65m: 50° undulating continuity. 74-22.77m: Extremely wear grey siltstone. 21-23.40m: Very weak venight greenish grey siltstone. 40-23.49m: 88° to 90° under discontinuity. The property of the property	y thinly dulating to very CLAY. fine to DE III. ak light reenish	24.90	
Boi	ring F		and Water C					Chisell	ing / S	low l	Progress	General I	Rema	rks	
Date 7	Γime	Bore Dep	- 3	Borel Diam (mr	eter	Wate Dept	- 11	From	Т	ō	Duration (hh:mm)	Concrair	Terria	ino_	
												All dimensions in metres	Scale:	1:25	<u> </u>
Method	Insp	ection p			Daı	ndo 30	000 +		Drilled	Joi	nny Hutt +	Logged JAlton +	Checker		
Used: C		Percuss	sion + ∣Us			chio ('	By:		m Carter	By: RSenior	By:		A

_													
E E		Boring Pro	ogress and	Water C	bservations		Chisel	ing / Slow F	rogress	Conoral	Domor	ماد	
j O	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration	General	Remai	KS	
asile	Date	Tillie	Depth	Depth	(mm)	Depth	1 10111	10	(hh:mm)				
י וי													
2													
2													
ם ם													
, Eg													
250										All dimensions in metres	Scale:	1:25	
<u>0</u>	Method	Inones	tion nit I	Pla	nt D			Drilled Jon	mar Librate I		Checked	1.25	
i n	Used:		ction pit + ercussion :		_	ando 3000 acchio GE0		_	ny Hutt + m Carter	Logged JAlton + Bv: RSenior	Bv:		AGS

BOREHOLE LOG

Contract:				Client:		Borehole	e:		
EMG Pha	se 2				SEGRO			В	H15
Contract Ref:	Start:	22.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	29.09.22		81.49	E:446370.2 N:325029.4		1	of	13

			Sample	s & Testing	ı	Mecha	anical	Log	s <u>s</u>	=	<u></u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfill	Water	Description of Strata	(Thick ness)	Graphic Legend
16	0.10 0.10 0.10 - 0.10-0.30	1 101 2	D ES B	1xT+1xJ+1xV								TOPSOIL	(0.40) 0.40	10 - 3 10 - 3 10 10 - 3 10 - 3 10 10 - 3 10 - 3 10
01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 10:38 1C9	0.60 0.70 0.70-0.90	102 3 4	ES D B	1xT+1xJ+1xV								Stiff reddish brown sandy very gravelly CLAY. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of mixed lithologies including sandstone, silstone and mudstone.	- - - -	
nail: ask@soils.co	- 1.20 1.20-1.50	5 6	D UT _(UT100)	150 blows 83% recovery									(2.20)	
uk, En	1.50-1.60	7	D										- (2.20)	· · · · · · ·
ww.soils.co	1.70	8	D										_	
11977-552299, Web: wv	2.00-2.45 - 2.00-2.45 - 2.00-2.45 	10 11	SPT DSPT B	N=30									- - - -	
52255, Fax: (2.60-3.00	12	В									Greyish brown sandy silty very angular to subangular coarse GRAVEL of mixed	2.60	×
I: 01977-55	- -											lithologies including sandstone and quartz. Sand is fine to coarse.	3.00	
Yorkshire, WF10 1NJ. Le	3.00-3.45 3.00-3.45 - 3.00-3.45	14 15	SPT DSPT B	N=30								Medium dense to dense greyish brown silty SAND.	- - (0.45) -	× × × × × × × × × × × × ×
Potteries, Pottery Street, Castleford, West Yorkshire -	3.70 - - - 4.00-4.45 - - - - -	16	D SPT(c) B	N=32								Dense greyish brown slightly gravelly silty fine to coarse SAND. Gravel is fine of mixed lithologies including sandstone and siltstone.	- 3.45 - - - - - -	*
Poller F										[///]				[::::ר::]

ĭ														
l Pe		Boring Pro	ogress and	Water Ob	servations		Chise	ling / Slow F	Progress	General Remarks				
eford:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration	General Remarks				
astle	Date	11110	Depth	Depth	(mm)	Depth	1 10111	10	(hh:mm)	Position cleared using CAT and Genny.	٦			
ÿ	23/09/22	07:42	3.45	3.00	200	Dry	9.20	9.60	01:00	2. Hand dug inspection pit to 1.20m.				
Eice Eice	23/09/22	15:00	12.00	12.00	200	9.10	11.20	11.70	01:00	3. Borehole drilled using 200mm tools and casing,				
C	26/09/22	09:20	12.00	12.00	200	6.60	13.30	13.80	01:00	then using 109.5mm tools from 14.00m.				
anc	26/09/22	13:24	13.80	13.50	200	-				4. 200 litres of water added from 3.00m to 12.00m				
Ä,	29/09/22	09:45	26.35	13.50	146	6.40				to aid drilling. 5. Borehole backfilled with a bentonite seal upon				
ž E	28/09/22	8/09/22 11:00 14.00 13.50 200 12.50								completion.				
Solls	28/09/22	17:00	26.35	13.50	146	24.50					\dashv			
a				6.40				All dimensions in metres Scale: 1:25						
nctu	Method Inspection pit + Plant Dando 300							ny Hutt +	Logged DNartey + Checked					
Ě	Used: Cable Percussion + Used: Comacchio GI					ccnio GEC	0 601	By: Sa	m Carter	By: RStan By:	ЭH			

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Soils Lid, Branch Office - Castleford: The Pottery Street, Castleford, West Yorkshire, WF10 1\overline{10}. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. | 11/12/22 - 10:38 | TC9 |

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STRUCTURAL SOILS

BOREHOLE LOG

Contract:				Client:			Borehol	e:		
EMG Pha	se 2					SEGRO			В	H15
Contract Ref:	Start:	22.09.22	Groun	d Level (m	AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	29.09.22		81.49		E:446370.2 N:325029.4		2	of	13
									_=	

				Liiu.	23.0			`			_	L.770070.2 N.020023.7		
			Sample	s & Testing		Mecha	nical	Log	s =	■	<u>ب</u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfill	Water	Description of Strata	(Thick ness)	Graphic Legend
100:01 - 22/2	5.00-5.45 5.00-5.45	19	D SPT(c) B	N=33								Dense greyish brown slightly gravelly silty fine to coarse SAND. Gravel is fine of mixed lithologies including sandstone and siltstone. (stratum copied from 3.45m from previous sheet) Below 5.00m: Gravelly.	- - (2.55) - - - -	*
)	5.70	22	D										- - - - 6.00	0x 0 ×6 ×0 *
	6.00-6.45 6.00-6.45 -	24	SPT(c) B	N=33								Medium dense to dense orangish brown very gravelly silty fine to coarse SAND. Gravel is fine of mixed lithologies including sandstone, siltstone and limestone.	-	* × 0 × 0 ×
	7.30	25	D										- - - (2.30) -	× 0× 0× × 0× × 0× × 0× × 0× × 0× × 0×
	7.50-7.95 7.50-7.95 - 7.50-7.95	27 28	SPT DSPT B	N=26									- - - -	× 0
oweres, 1 ower y officer, destroyed, west	- - - - - 8.70	29	D									Stiff laminated reddish brown, mottled grey, slightly sandy gravelly SILT. Sand is fine to coarse, predominantly coarse. Gravel is subangular to subrounded fine to coarse of mixed lithologies including sandstone, siltstone, mudstone and coal. Low cobble content of flint.	8.30	

lhe		Boring Pro	ogress and	Water O	oservations		Chise	lling / Slo	w Progress	Conoral	Domork	_	
stleford:	Date	Time	Borehole	_	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remark	S	
astl			Depth	Depth	(mm)	Depth		. •	(1111.111111)	6 SDT hammar AD2104 C	2022 (E = 64 (200/.)	ıaad
s Ltd, Branch Office - Ca	29/09/22	17:00	30.85	None	146	-				- 6. SPT hammer AR3104-2	2022 (E _r – 64.0	J076) U	isea.
Soil										All dimensions in metres	Scale: 1	:25	
Structura	Method Used:		tion pit +	Pla Use		ando 3000 icchio GEC			Jonny Hutt + Sam Carter	Logged DNartey + By: RStan	Checked By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1N. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:38 | TC9 |



BOREHOLE LOG

Contract:				Client:		Borehole	e:		
EMG Pha	se 2				SEGRO			В	H15
Contract Ref:	Start:	22.09.22	Groun	nd Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	29.09.22		81.49	E:446370.2 N:325029.4		3	of	13

Ī			Sample	s & Testing	N	Mecha	anical	Log	s <u>s</u>	=	<u></u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfill	Water	Description of Strata	(Thick ness)	Graphic Legend
Ī	9.00-9.32		SPT	4,5/7,26,17 for 20mm	,	,		,		///			-	* Q.*. O° . ×O.O
_	9.00-9.32 9.00-9.32	31 32	DSPT B	IOI ZOITIITI								Cobbles and boulders of flint.	9.20	, 30 ×
- 10:38 109	-												9.60	000
11/12/22	- - - -											Medium dense orangish brown silty sandy angular to subangular fine to coarse GRAVEL of mixed lithologies including sandstone, siltstone and flint. Sand is fine to coarse.		
iail: ask@so	10.30	33	D										-	
Web: www.soils.co.uk, Email: ask@soils.co.uk.	10.50-10.95 10.50-10.95 10.50-10.95	35	SPT DSPT B	N=23									(2.10)	
Fax: 01977-552299,	- - 11.20-11.70 - -	37	В									11.20-11.70m: Low cobble content of subrounded flint.	11.70	0.50 B 0.50 D 8.00 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C
0.1977-552255,	11.80	38	D									Stiff reddish brown, mottled grey, gravelly sandy SILT. Sand is fine to coarse. Gravel is angular to subangular fine to coarse of	-	× · × · × · × · × · × · × · × · × · × ·
Yorksnire, WF10 1NJ. 1el:	12.00-12.45 12.00-12.45 12.00-12.45 	40	SPT DSPT B	N=36								mixed lithologies including mudstone and flint.	(0.75)	× × × × × × × × × × × × × × × × × × ×
Street, Castleford, West Yorkshire	12.50 - -	42	W									Stiff reddish brown, mottled grey, gravelly sandy SILT. Sand is fine to coarse. Gravel is angular to subangular fine to coarse of mixed lithologies including mudstone and flint. Stiff to very stiff reddish brown gravelly	12.45	*** * * * * * * * * * * * * * * * * *
Potteries, Pottery Street, Ca	13.30	43	D									sandy SILT. Sand is fine. Gravel is angular to subangular fine of mudstone. Occasional band and pockets of grey siltstone. (MERCIA MUDSTONE GROUP)	-(1.30)	* · · · · · · · · · · · · · · · · · · ·

	Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	Progress	General	Domorl	l/0	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	NS	
			•	,								
,												
									All dimensions in metres	Scale:	1:25	
Method Used:	Cable Po	tion pit +	Plan Used		ndo 3000 cchio GEC			ny Hutt + m Carter	Logged DNartey + By: RStan	Checked By:	20	AGS

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appropriate												BOREH	OLE	ΞL	.OG
Contract:								Cli	ent:				Borehol	e:	
		EMG	Pha									SEGRO			BH15
Contract Ref	:			Start:	22.09	9.22	Grou	ınd Le	evel (m	AOD):		National Grid Co-ordinate:	Sheet:		
7	65	514		End:	29.0	9.22		8	31.49			E:446370.2 N:325029.4		4	of 13
		Samples	s & Tes	ting	ı	Mecha	anical	Log	s in		ř			Depth	Material
Depth (m)	No	Туре	Res	sults	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfill	Water	Description of Strata		(Thick ness)	Legend
13.50-13.80 - 13.50-13.80 - 13.50-13.80 13.80-14.02	45 46	SPT DSPT B SPT	for 7 25/2	19,31 75mm 26,24 70mm								Stiff to very stiff reddish brown g sandy SILT. Sand is fine. Gravel is a to subangular fine of mudstone. Occaband and pockets of grey siltstone. (MERCIA MUDSTONE GROUP) (stratum copied from 12.70m from probact)	ngular isional	14.00	**************************************
-13.80-14.02 - 14.00-14.35 - (0:02) - 14.20-14.30 - 14.30-14.35 - 14.35-15.85 - (0:05)	49 50	DSPT D C			100	14	0	N	Air+Mist (Brown)			MUDSTÓNE. GRADE III. Fractures: Very closely spaced, ran orientated, planar, locally NI, frequently black stained.	rough,	(1.08)	
(0.05)					100	25	13	NI NI 100	Air+Mist (Brown)			(MÉRCIÁ MUDSTONE GROUP) 14.33-14.35m: Grey siltstone 14.35-15.08m: NI, recover angular fine to coarse gravel, with abblack stained on surface. Fracture randomly orientated, predominantly planar, rough, abundant black stainin clay infill. Extremely weak to weak reddish brow MUDSTONE.	ed as undant es are 0-10°, g, silty	15.08	
15.29-15.39	51	С										Fractures: Closely spaced, 0-10°, prough, frequently black stained. (MERCIA MUDSTONE GROUP) 15.08-15.09m: 6° planar roug silty clay infill (<3mm) 15.10-15.30m: NI, fracture randomly orientated with abundant	h with		
- 15.85-17.35 _(0:04)						 	X	X	X			staining 15.32-15.40m: 22° planar roug abundant black staining, with clayinfill (<3mm) 15.74-15.85m: NI, fracture randomly orientated with abundant staining on discontinue surface 15.85-15.98m: 86° undulating	h with ey silt es are black	- -	
16.59-16.87	52	С			100	91	53	NI 70 540	Air+Mist (Brown)			abundant black staining 15.98-15.99m depth; 7° undout rough abundant black staining 15.99-16.26m: Weak and m strong grey siltstone 16.01-16.02m: 5° planar abundant black staining 16.04-16.05m: 3° planar occasional brown staining.	ulating edium rough rough,		
- 17.35-18.85 - (0:04) - 17.49-17.69		С			100	92	66	15 350 830	Air+Mist (Brown)			clean 16.14-16.15m: 6° undulating clean 16.23-16.24m: 6° undulating clean 16.27-16.28m: 4° undulating clean 16.30-16.31m: 5° planar abundant black staining 16.35-16.40m: NI, recovered a angular fine to medium gravel.	rough rough	(4.90)	

		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	Progress	General	Domor	ko	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	K5	
3													
, ,													
										All dimensions in metres	Scale:	1:25	
	Method Jsed:	Cable Pe	tion pit +	Plan Used		ndo 3000 cchio GEC			ny Hutt + m Carter	Logged DNartey + By: RStan	Checked By:		AGS

Rotary Cored

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BOREHOLE LOG

Contract:					Clier	nt:				Boreho	le:		
	EMG Pha	se 2							SEGRO			BH	15
Contract Ref		Start:	22.09.22	Ground	d Lev	el (m A	AOD):		National Grid Co-ordinate:	Sheet:			
7	'65514	End:	29.09.22		81	1.49			E:446370.2 N:325029.4		5	of 1	13
	Samples & Test	ting	Mecha	nical Lo	og	s <u>s</u>	≡	₩.			Depth	Mate	erial

		Samples	& Testing		/lech:	anical	Loa	<i>u</i>				.	N 4 - 4 1
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfill	Water	Description of Strata	Depth (Thick ness)	Material Graphic Legend
-				100	92	66	15 350 830	Air+Mist (Brown)			16.40-16.46m: 84° planar rough abundant black staining 16.46-16.50m: NI, recovered as clayey silty angular fine to medium gravel 16.50-16.59m: 82° undulating rough abundant black staining 16.59-16.60m: 5° planar rough abundant black staining 17.12-17.14m: Grey siltstone 17.16-17.18m: NI, recovered as silty	-	
- 18.85-20.35 _(0:06) - - - -						\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	X	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			sandy gravel 17.18-17.24m: Grey siltstone 17.35-17.43m: 43° undulating rough occasional black staining 17.79-18.20m: Weak grey siltstone 17.95-17.99m: 12° undulating rough occasional brown staining 17.98-17.99m: 4° undulating rough occasional brown staining.	- - - -	
- - 19.61-19.89 - - -	54	С		100	100	96	70 120 490	Air+Mist (Brown)			Extremely weak to weak reddish brown silty MUDSTONE. Fractures: Closely spaced, 0-10°, planar, rough, frequently black stained. (MERCIA MUDSTONE GROUP) 15.08-15.09m: 6° planar rough with silty clay infill (<3mm).(stratum copied from 15.08m from previous sheet) 18.02-18.05m: 15° planar rough	19.98	
- - 20.35-21.85 - (0:06) - 20.51-20.69 - - - -		С		100	77	77	VI NI NI	Air+Mist (Brown)			abundant brown staining	20.42	
- - - - 21.85-23.35 _(0:05) - 22.03-22.26		С		100	97	97	NI NI NI NI	Air+Mist (Brown)			occasional brown staining 19.26-19.97m: Grey mottled reddish brown siltstone and mudstone 19.34-19.41m: 40° planar rough abundant black staining 19.59-19.64m: 27° planar rough clean. Very weak to weak reddish brown silty sandy MUDSTONE. GRADE II. (MERCIA MUDSTONE GROUP) Very weak to weak reddish brown, mottled grey, fine and medium grained SANDSTONE, interbedded with grey siltstone. (MERCIA MUDSTONE GROUP)	21.90	

		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	Progress	General	Domor	l/0	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	NS	
-IU, Dialicii Ciilos - Ca			·	·		·							
	Method		tion pit +	Plan		ando 3000 ·			ny Hutt +	All dimensions in metres Logged DNartey +	Checked	1:25	
	Used:		ercussion -	+ Use	d: Coma	cchio GEC	601	By: Sa	m Carter	By: RStan	By:		AGS

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BOREHOLE LOG

Contract:				C	Client:			Boreho	ole:	
	EMG Pha	se 2					SEGRO			BH15
Contract Ref	:	Start:	22.09.22	Ground	Level (m AOI)):	National Grid Co-ordinate:	Sheet:		
7	7 65514	End:	29.09.22		81.49		E:446370.2 N:325029.4		6	of 13
D 41-	Samples & Tes	ting	Mecha	anical Log	g 8	ē			Depth	Material

 -		0	0 T4:	.	4	: •			Ť		
Denth		Samples	& Testing		viecha	RQD (%)	Log	_ su	ails	₹ ₹	Depth Mate
Depth (m)	No	Туре	Results	TCR	SCR	RQD	lf .	ush	Det	Backfill	Description of Strata (Thick Graph ness) Lege
(111)	INO	Type	Nesulis	(%)	(%)	(%)	(mm)	트폰	∞		ness) zego
_									K	//	21.50-21.90m: NI.
										<i>//</i> 1	22.26-22.28m: Reddish brown fine to
										//l	medium grained sandstone.
-								رب ا	. V	//	Very weak to weak reddish brown
							ΝI	Ais	ξ /.	///	MUDSTONE. Occasional pockets and [
				100	97	97	NI	Air+Mist			laminae of grey siltstone. Rare laminae of
-				1 , 1	١,	Ι,	NI	\(\bar{4}\)	<u> </u>	//	reddish brown fine to medium grained
										221	sandstone. GRADE II.
									/	//	(MERCIA MUDSTONE GROUP)
									- K	<u> </u>	(stratum copied from 21.90m from previous
				_	Ÿ	<u> </u>	Ť	Ý	_//	//	sheet)
23.35-24.85				1 1	↑	↑	₱	1		221	23.35-23.40m: 43° undulating rough
(0:06)										//1	clean.
_									Z.	//	23.41-23.43m: 9° planar rough brown
									K	<u> </u>	stained.
-										//1	23.48-23.52m: 33° planar rough brown
-										//1	stained.
-									\vee	//	23.53-23.56m: 16° planar rough brown
								ـ الـ ا	- K	<u>//</u>	stained.
-							60	Ais (Ē	//	
				95	92	67	60 80	Air+Mist	∮ /	221	
				1 , 1	,	Ι,	NI	₹ Œ	2 /	//	-
24.20-24.51	5/	C							- K	<u>//</u>	
										//\	
										221	
•										//	-
									- K	<u>//</u>	
										//	24.66.24.79m; With Jaminas of grov
										221	24.66-24.78m: With laminae of grey siltstone.
				<u> </u>	<u> </u>	.	.	*	_/	//	Silisione.
24.85-26.35				↑	A	1	♠	1	- K	<u>//</u>	-
_(0:06)										//	-
										//l	
									\vee	//	
•									K	<u> </u>	25.20-25.43m: Grey mottled reddish
										//l	brown siltstone and mudstone.
										//l	
_									. K	//	
25 55 25 24	E0.			'		'	NI	Nis A	₹ //	<u> </u>	
25.55-25.91	58	C		100	100	100	NI	Air+Mist		//l	25.60-25.71m: Pockets grey siltstone. (7 62)
				1 .	l ı	L	NI	\ \(\frac{1}{2}\)	<u> </u>	//l	25.60-25.71m: Pockets grey slitstone. (7.62)
									Z.	//	
									K	<u> </u>	
										//l	
-										//1	25.98-26.65m: Weak fine grained
										//	sandstone.
									Y.	<u>//</u>	
									K	//\	
·				₩	<u> </u>	<u> </u>		<u> </u>	_L	//1	
26.35-27.85				🕈	 	🕈	A	1 ♠		//1	
(0:06)									\vee	<u>//</u>	
								s st	- K	<u>//</u>	
26.60-26.90	59	С		1400	00		NI	Air+Mist	{ /	//1	00.05.07.05
				100	98	98	NI	1 = 2	5 V	//1	26.65-27.05m: Grey siltstone.
-							NI	<	- K	<u> </u>	
				1 1	1 1	1 1	ı 1	1 1	- 1/	//	· · · · · · · · · · · · · · · · · · ·
									- [/	~~1	
											26.90-26.93m: NI.

	Е	Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	rogress	Co	neral F	Domor	ko	
D	ate	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	Ge	enerai r	Temai	KS .	
3														
;														
ì														
1										All dimensions	in metres	Scale:	1:25	
Met Use	thod ed:	Cable Pe	tion pit +	Plan Used		ando 3000 cchio GEC			ny Hutt + m Carter		artey + Stan	Checked By:	20	AGS

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BOREHOLE LOG

Contract:							Cli	ent:				Boreho		
		EMG F	Phase 2								SEGRO			BH15
Contract Ref			Start:			Grou		,	AOD):		National Grid Co-ordinate:	Sheet:		
7	655	514	End:	29.0	9.22		8	31.49			E:446370.2 N:325029.4		7	of 13
		Samples &	Testing	ı	Mecha	anical	Log	Sie	■	ē			Depth	Materia
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfill	Water	Description of Strata		(Thick ness)	Graphic Legend
27.85-29.35 (0:06)				100	98	98	ZI Z	Air+Mist (Brown)			Very weak to weak reddish MUDSTONE. Occasional pockets laminae of grey siltstone. Rare lamin reddish brown fine to medium g sandstone. GRADE II. (MERCIA MUDSTONE GROUP) (stratum copied from 21.90m from presheet) 27.34-27.38m: Grey siltstone 27.47-27.75m: Weak grey siltstone 27.75-27.85m: Sandy mudstone.	nae of prained evious	-	
28.43-28.68	60	С		100	100	100	NI NI	Air+Mist (Brown)			28.08-28.14m: Medium strong siltstone 28.14-28.60m: Grey mottled rebrown siltstone 28.36-28.43m: 35° planar rough stained.	eddish	-	
											28.95-28.97m: Reddish brow grained sandstone.	n fine	- - - -	
29.35-30.85 (0:04) 29.35-30.85		С		100	100	100	_•	Air+Mist (Brown)			Weak reddish brown fine and m grained SANDSTONE. Occasional properties of grey siltstone and weak reddish brown mudstone. (MERCIA MUDSTONE GROUP) 30.03-30.18m: Reddish	ockets d very	- <u>29.52</u> 	
								Alir- (Br			mudstone. \(\ldots \ \ 30.82-30.85m: \) Grey siltstone.	ſ	(1.33) - - - - - - -30.85	
											Borehole terminated at 30.85m depth.		- -	

		Boring Pro	ogress and	Water Ob	servations		Chisel	ing / Slow F	rogress	General	Domorl	40	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	NS	
3													
										All dimensions in metres	Scale:	1:25	
	Method Inspection pit + Plant Dando Used: Cable Percussion + Used: Comacchi								ny Hutt + m Carter	Logged DNartey + By: RStan	Checked By:		AGS

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STR

STRUCTURAL SOILS

BOREHOLE LOG

Contract:				Client:		Borehole	:		-
EMG Pha	se 2				SEGRO			В	H16
Contract Ref:	Start:	15.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	15.09.22		73.98	E:446488.6 N:324866.7		1	of	11

				Liiu.									
			Sample	s & Testing		Mecha	nical	Log	& ' ë	<u></u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instru- mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
F	0.00-4.50										TOPSOIL	-	<u> </u>
ŀ	0.20	1	D									(0.60)	: ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
_	0.20-0.40	2	В									(0.00)	12 · · · · · · · · · · · · · · · · · · ·
-													77.77.7
-											Firm reddish brown gravelly sandy SILT. Sand is	0.60	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
	0.70	3	D								fine to coarse. Gravel is subangular to subrounded	(0.30)	× .× ·× ·×
-	0.70-0.80	4	В								fine to coarse of quartzite and sandstone.	0.90	* _{0×} ·×
-	1.00-1.20	5	В								Stiff reddish brown slightly gravelly sandy CLAY. Sand is fine to coarse, predominant coarse. Gravel	(0.40)	
											is subangular to subrounded fine to coarse of metamorphic rocks, sandstone and occasional	(0.40)	
	1.20-1.40	6	UT _(UT100)	150 blows 100% recovery							quartzite.	1.30	
: L	1.40-1.50	7	D								Stiff to very stiff reddish brown slightly gravelly sandy CLAY. Sand is fine. Gravel is angular to	-	
											subangular of mudstone lithorelics. GRADE IVb. (MERCIA MUDSTONE GROUP)		•••••
-	1.70	8	D								,	-	
-	1.70											-	
i L			ODT	N. 00					• • • • •			_	
?	2.00-2.45 2.00-2.45	10	SPT DSPT	N=32								-	
	2.00-2.45	11	В										<u>•</u> • • •
;												-	
-												-	
-													<u> </u>
3 -	2.70	12	D									(3.20)	
-												(3.20)	<u> </u>
-	3.00-3.43		SPT	9,9/9,13,16,12 for 55mm								-	
<u> </u>	3.00-3.43	14 15	DSPT B	10. 00111111								}	
	3.00-3.45	15	В									<u> </u>	- · · · · · · ·
-												-	
												}	
; [3.70	16	D						::				
-												-	
	4.00-4.36		SPT	9,12/16,18,16								<u> </u>	<u> </u>
; ; ;	4.00-4.36	18	DSPT	for 60mm								-	
-												-	
												4.50	

ш.											
The		Boring Pr	ogress and	Water Ob	servations		Chise	lling / Slow	Progress	Conoral	Domorko
eford:	Date	Time	Borehole	"	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remarks
astl			Depth	Depth	(mm)	Depth			(1111.11111)	1. Position cleared using C	AT and Genny
ils Ltd, Branch Office - C	16/09/22 20/09/22 21/09/22 21/08/32	16:00	4.00 4.50 14.00 20.00	3.00 None None None	200 N/R N/R N/R	3.20 5.30 13.00	3.60	4.00	00:30	Hand dug inspection pit SPT hammer AR3104-2	to 1.20m.
S S										All dimensions in metres	Scale: 1:25
ructura	Method Used:						+	Drilled Bv: . J	onny Hutt	Logged DNartey + Bv: DNeylon	Checked By:

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BOREHOLE LOG

Contract Ref: Start: 15.09.22 Ground Level (m AOD): National Grid Co-ordinate: Sheet:	Contract:		Client:		Borehole:			
	EMG Pha	se 2		SEGRO			Bŀ	116
	Contract Ref:	Start: 15.09.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514 End: 15.09.22 73.98 E:446488.6 N:324866.7 2 of	765514	End: 15.09.22	73.98	E:446488.6 N:324866.7		2	of	11

		Core-1-	0 Tastin		1/0	on:'	ا در ا		1			1
Depth			& Testing	TCR	SCR	anical RQD	~ I= ¬ := I	Water	De	escription of Strata	Depth (Thick	Mater Graph
(m)	No	Туре	Results	(%)	(%)	(%)	Backfill Instru		O4:ff1-1: 1 1	ann alimbatha a a a da a a a a a a a a a	ness)	Lege
4.50-5.00 4.90 5.00-6.50	20	D		60	0	0			Sand is fine to Gravel is angula		ed. F se -	
- - - 5.55 - 5.75 -	21	С		73	13	13			MUDSTÔNE. GE (MERCIA MUDS	STONE GROUP)	5.80	
- - - - 6.30	22	D							with fine to coar silt. Sand is fine		dy ed. - se -(0.65)	
6.50-8.00				*	*	X						
7.50-8.00	23	С		77	17	17			(<10mm) and pockets of thinly 7.35-7.45i (<10mm) of extr	m: Very closely spaced lamin medium to coarse gravel si cross laminated siltstone. m: Very closely spaced lamin emely weak greenish grey thi siltstone, with occasional clay.	ze - ae -	
8.00-9.50				*	X	*			9 25 9 20m	· Thinly laminated aroom silteton	(3.00)	
-				77	15	8			and mudstone.	: Thinly laminated cream siltsto :5m: Thinly laminated colour dstone.	L	
Во	ring F	Progress	and Water Ob	_			Chise	elling	g / Slow Progress	Conoral Do	marks	
Date	Time	Boreł Dep		Boreh Diamo (mn	eter	Wate Dept	II From		To Duration (hh:mm)	General Re		
Method Used: C		ection p				ndo 30 Inknov		Dri	illed	All dimensions in metres Sca Logged DNartey + Ch By: DNeylon By:	ecked	5 A(

<u> </u>		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow	Progress		General I	Domor	·ko	
isilaloid.	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)		Generali	Remai	KS	
Olls Ltd, branch Ollice - Ce														
ŏ u										All dimens	ions in metres	Scale:	1:25	
Tuctur	Method Used:		tion pit + ercussion	Plar Use		ando 3000 Unknown		Drilled By: J e	onny Hutt	Logged By:	DNartey + DNeylon	Checked By:		AGS



STRUCTURAL SOILS **BOREHOLE LOG**

Contract:				Client:				Boreho	le:		
EMG Phas	se 2						SEGRO			В	H16
Contract Ref:	Start:	15.09.22	Groun	d Level (m	AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	15.09.22		73.98	3		E:446488.6 N:324866.7		3	of	11
										=	

				_		ı						
_	L	Sample	s & Testing	N	Mecha	anical	Log	ૹ ૻૄ૽ 등	<u>.</u>		Depth	Material
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instru- mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
9.50-11.00				77	15	8			1	Extremely weak reddish brown MUDSTONE with frequent randomly orientated smooth planar clean fractures. GRADE II. (MERCIA MUDSTONE GROUP) (stratum copied from 6.45m from previous sheet) Extremely weak reddish brown MUDSTONE. (MERCIA MUDSTONE GROUP)	9.45	
10.20	24	D		100	3	0			1	10.25-10.85m: Smooth planar incipient fracture at approx angle of 85° running through the centre of the core.	-	
11.00-12.50 11.25	25	D			<u> </u>	X				10.85-10.95m: Fine to coarse gravel size pockets of greenish grey siltstone 10.90-11.50m: Very closely spaced randomly orientated closed fractures.	- (2.95)	
11.90-12.10	26	С		93	49	45					-	
12.50-14.00)			*	X	*	-			Extremely weak to very weak greenish grey thinly laminated SILTSTONE with fine to medium gravel size vugs. (MERCIA MUDSTONE GROUP)	12.40	× × × × × × × × × × × × × × × × × × ×
13.30-13.40	27	С		93	29	0			1	Extremely weak reddish brown MUDSTONE. GRADE II. Fractures: Closely spaced, randomly orientated, undulating, smooth, with occasional yellow staining and black specks on surfaces. (MERCIA MUDSTONE GROUP)	12.90	× × × × × × × × × × × × × × × × × × ×

		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	Progress	General	Domorl	10	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	15	
3				-									
										All dimensions in metres	Scale:	1:25	
	Method Inspection pit + Used: Cable Percussion +			Plan Used		ando 3000 Unknown	+	Drilled By: J o	nny Hutt	Logged DNartey + By: DNeylon	Checked By:	10	AGS
		Rotar	v Cored						-				

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web.



BOREHOLE LOG

Contract:				Client:		Borehole	e:		
EMG Pha	ase 2				SEGRO			В	H16
Contract Ref:	Start:	15.09.22	Ground	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	15.09.22		73.98	E:446488.6 N:324866.7		4	of	11

ĺ			Samples	& Testing		/lech	anical	Loa	_{αχ} ⊏			.	
	Depth (m)	No	Туре	Results					Backfill & Instru- mentatior	Water	Description of Strata	Depth (Thick ness)	Material Graphic Legend
.30 105	- - - - 14.00-15.50				93	29	0				Extremely weak reddish brown MUDSTONE. GRADE II. Fractures: Closely spaced, randomly orientated, undulating, smooth, with occasional yellow staining and black specks on surfaces. (MERCIA MUDSTONE GROUP) (stratum copied from 12.90m from previous sheet)	(1.30)	
Email: ask@soils.co.uk. 11/12/22 - 10:36 109	- - 14.25-14.55 - -	28	С								Extremely weak to very weak greenish grey thinly laminated SILTSTONE with fine to medium gravel size vugs. (MERCIA MUDSTONE GROUP)	14.20 (0.40) 14.60	× × × × × × × × × × × × × × × × × × ×
	- - 15.10-15.35	29	С		100	63	45				Extremely weak reddish brown MUDSTONE, closely interbedded with extremely weak greenish grey SILTSTONE. Boundaries of interbeds are transitional and not distinct. Bedding fractures: Closely spaced, rough, planar, with sandy clay infill. (MERCIA MUDSTONE GROUP)	(0.75)	× × × × × × × × × × × × × × × × × × ×
//-552299, Web. www.:	15.50-17.00 _				*	X	X	-			Very weak to weak greenish grey thickly cross laminated SANDSTONE. (MERCIA MUDSTONE GROUP) 15.35-15.70m: Rough undulating fracture at approx 85° through the core with black specks and yellow stain along surfaces.	- -(0.55)	X X X X
TOLNSTILLE, VVT 10 11/3: 161.01977-302230; VGD: WWW.SOIIS:CO.UA,	- - - - 16.40-16.70	30	С		93	53	42				undulating wide bedding fracture infilled with sandy gravel of sandstone and red clay. 15.75m: Verging towards an extremely weak siltstone with frequent fine to medium gravel size vugs. Extremely weak reddish brown MUDSTONE with occasional fine gravel size pockets of greenish grey siltstone. GRADE II. (MERCIA MUDSTONE GROUP)	-(0.85)	
- F	- - - - 17.00-18.50 -				- X -	X	*	-			Firm reddish brown slightly gravelly sandy CLAY with frequent fine to medium gravel size pockets of greenish grey sandy silt. Sand is fine to coarse and mudstone derived. Gravel is angular to subangular fine to coarse of extremely weak mudstone lithorelics. GRADE III.	- 16.75 - - - - - (0.95)	
Jouerles, Poutery Street, Castlerord, Wes	17.30	31	D		80	32	28				(MERCIA MUDSTONE GROUP) Description on next sheet 17.75-17.80m: Weak greenish grey fine	17.70	
otteries, Po	-										grained sandstone.	_	× × × × × × × ×

		Boring Pro	ogress and	Water Ob			Chisel	ling / Slow F	Progress		General I	2omar	kc	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)		Generari	Temai	NS	
				•										
										All dimens	ions in metres	Scale:	1:25	
)	Method Inspection pit + Cable Percussion +					ando 3000 Unknown	+	Drilled By: Jo	nny Hutt	Logged By:	DNartey + DNeylon	Checked By:		AGS
_		Rota	v Cored							l	<u> </u>	1		

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1N. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:38 | TC9 |



BOREHOLE LOG

				Client:				Borehole	9:		
EMG Pha	se 2					SEG	RO			В	H16
Contract Ref:	Start:	15.09.22	Groun	d Level (m	AOD):	National	Grid Co-ordinate:	Sheet:			
765514	End:	15.09.22		73.98		E:44	6488.6 N:324866.7		5	of	11

			Samples	s & Testing	ı	Mecha	anical	Log	fight &	Į.		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instru- mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
- 10:	18.50-20.00 18.70-18.90		C		93	17	17				Extremely weak to very weak greenish grey SILTSTONE closely interbedded with extremely weak reddish brown MUDSTONE. (MERCIA MUDSTONE GROUP) (stratum copied from 17.70m from previous sheet) Extremely weak reddish brown MUDSTONE with occasional fine to coarse gravel size pockets of greenish grey siltstone. Beddinf fractures: Medium spaced, rough, undulating, infilled with sandy clay. Fracture set 2: rough, planar, infilled with clayey sand. (MERCIA MUDSTONE GROUP) 18.70-18.80m: Extremely weak greenish grey thickly cross laminated SILTSTONE with thin laminae (<2mm) of SANDSTONE.	(0.70)	

<u> </u>		Boring Pro	ogress and	Water O	oservations		Chisel	ling / Slov	v Progress		Seneral I	Domor	ko	
Suciona	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)		beneral i	Temai	KS	
S Elu, Dianon Cinoc - Ca				294	()									
5										All dimensio	ns in metres	Scale:	1:25	
oil actais	Method Used:	Cable Pe	tion pit +	Plai Use		ando 3000 Unknown	+	Drilled By:	Jonny Hutt		ONartey + DNeylon	Checked By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Soils Lid, Branch Office - Castleford: The Pottery Street, Castleford, West Yorkshire, WF10 1\overline{10}. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. | 11/12/22 - 10:38 | TC9 |

BOREHOLE LOG

Contract:				Client:		Borehole):		
EMG Pha	se 2				SEGRO			В	H17
Contract Ref:	Start:	15.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	16.09.22		74.45	E:446293.6 N:324881.8		1	of	10

		000	/17	Ena:	10.0	J.ZZ			4.4		E.440293.0 N.32400 I.0	ı	or IU
Γ			Sample	s & Testing		Mecha	ınical	Log	જ , 등	_		Depth	Material
	Depth (m)	No		Results					Backfill & Instru-mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
r					<u> </u>		` ′	<u> </u>		†	TOPSOIL		7/1/V - 7/1/V - 7
ſ			 				l j		盟民	2		0.20	1/. 1/1/. 1/1/
	0.20	1 1	D	 			l			Z Z	Firm dark yellowish brown slightly gravelly sandy		×°,×°
-[0.20 0.20-0.50	101	ES B	1xT+1xJ+1xV						1	SILT. Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of mixed lithologies	-	* * * * * *
<u> </u>				<u> </u>						1	including quartzite and siltstone.	-	, × × ×
-	0.50	102	ES	1xT+1xJ+1xV					و ا	1		-	× × × ×
. L										1		-	× · × ×
										1	Below 1.80m; Stiff.	(1.30)	* * * * *
-	0.90	3	D						و ا	1	DGIOW 1.00III. OUIII.	<u> </u>	*°. × *°
	0.90-1.20	4	В						::H:	•		<u> </u>	× × ×
	1.00	103	ES	1xT+1xJ+1xV					贮胀			-	*°
	1.20-1.65	5	UT _(UT100)	32 blows					ki:Hii			-	× ×
t				100% recovery					喘喘				× _{o×} × × _o
			 				l j		l::H::			1.50	× × ×
-			 				l j				Soft to firm reddish brown very sandy SILT. Sand is fine to coarse.	-	* ·× ·
-	4.70		, L				l j		比目:Ě		is line to coalse.	-	
-	1.70	6	D				l j		以用:			-	× × ×
. 1									!:II:			-	× · · × · ×
f	2.00-2.45		SPT	N=13					隙間:			(1.10)	× × × ×
	2.00-2.45	8	DSPT									İ	× ^ × *
	2.00-2.45	9	В				l		K;Hi				× × ×
									贮肥			-	× × ×
									注目::	1	7	ļ.,	^ × × ×
;									常制:	: - -	Medium dense dark brown mettled areas after	2.60	× ·×
_	2.70	10	D						贮肥		Medium dense dark brown mottled grey silty SAND. Sand is fine to coarse.	-	::::×:::::
ŀ		'							贮뷤:			-	× × .
ŀ									い目:			-	×···×
t	3.00-3.45		SPT	N=16			l		₽:H:÷	₩			×
	3.00-3.45 3.00-3.45	12 13	DSPT B						問:	-		- (4.20)	×:::î
Ĺ	J.UU-J.#J	'3	ا						k::H::			(1.30)	×···×
-									KiHi:			-	×···×
-									ŗ:Ħ÷			-	×::::
L							l		₽:H:			-	: : × : : î
									ŀ:ll::			-	×···×
ŀ									恺詌			3.90	* : · · · · ×
t	3.90	14	D						!:目::		Stiff to very stiff reddish brown, mottled grey,		<u> </u>
[3.90 4.00-4.44	27	W SPT 6	 \$,10/12,13,13,12	,		l		赔措		sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of	_	
, [for 60mm	Ţ					•	mudstone. Occasional pockets of grey silt	-	<u>•</u>
-	4.00-4.44	16	DSPT						ĸĦ:		(<20mm).	-	
	4.00-4.44	17	В						!:目:		(MERCIA MUDSTONE GROUP)	-	<u></u>
L		Ш							ŀ∴H∴	1			

п.											
The		Boring Pro	ogress and	Water Ob	servations		Chise	lling / Slow	Progress	Conorol	Damarka
stleford:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remarks
ast			Depth	Depth	(mm)	Depth			(111.11111)	1. Position cleared using C	AT and Genny
ပ	15/09/22	15:14	5.45	4.50	200	Dry	5.50	6.00	00:30	2. Hand dug inspection pit	
tice	16/09/22	08:24	5.00	4.50	200	3.90				3. SPT hammer AR3104-2	
Ď	16/09/22	09:55	6.30	None	200	-					(1)
nc	21/09/22		6.00	None	N/R	1.60					
B	22/09/22		21.00	None	N/R	1.80					
Ę,											
S											
S E										All dimensions in metres	Scale: 1:25
itur	Method	Inspec	tion pit +	Plan	t Da	ando 3000	+	Drilled		Logged DNartey +	Checked
ĭ	Used:	Cable P	ercussion -	+ Used	d:	Unknown		Bv: J	onny Hutt	Bv: RStan	Bv: MGS

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Structural Solis Lid, Branch Office - Castleford: The Pottery Street, Castleford, West Yorkshire, WF10 1\overline{10.16.01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:39 | TC9 |



BOREHOLE LOG

Contract:					Client:		Boreho	ole:		
	EMG Pha	se 2				SEGRO			ВН	117
Contract Ref		Start:	15.09.22	Ground	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
7	65514	End:	16.09.22		74.45	E:446293.6 N:324881.8		2	of	10
	Samples & Test	tina	Mecha	nical I c	na ∞ . 5 .			Danth	N 4	4!!

			Sample	s & Testing	N	Иесhа	anical	Log	& ¹ iö	<u></u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instru- mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
):39 TC9	4.70 - 5.00-5.45	18	D	N=39							Stiff to very stiff reddish brown, mottled grey, sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of mudstone. Occasional pockets of grey silt (<20mm). (MERCIA MUDSTONE GROUP) (stratum copied from 3.90m from previous sheet)	- - -(2.10)	
. 11/12/22 - 10	5.00-5.45 - 5.00-5.45 -	20 21	DSPT B									-	
s.co.u	5.50-5.84		SPT	8,12/15,21,14 for 40mm									
il: ask@soils	- 5.50-5.84 - 5.50-6.00	23 24	DSPT B	IOI TOITIIII								-	
, Ema	6.00-7.50					_	_				AZCL.	6.00	
oils.co.uk	6.00-6.30	26	SPT DSPT	12,13/19,24,7 for 15mm							(MERCIA MUDSTONE GROUP)	6.30	AZCL
. v10_01. 5522 <u>9</u> 9, Web: www.s	6.70-6.77	27	D		80	35	21				Extremely weak MUDSTONE, recovered as slightly sandy silty gravel. GRADE IV. (MERCIA MUDSTONE GROUP) 6.30-6.81m: NI.	(0.62)	
GPJ -	-				1	-					6 96 6 02m; NI	6.92	× 0 .
E LOG - A4P 765514 EAST MIDLAND AIRPORT GPJ - v10_01. sst Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk, 11/12/22 - 10:39 TC9	7.33-7.41	26	С			<u> </u>	\ \ -\				Extremely weak thinly laminated MUDSTONE. Occasional pockets and laminae of grey siltstone. GRADE III. (MERCIA MUDSTONE GROUP) 6.92-6.97m: Thin laminae of grey siltstone 6.97-7.00m: NI 7.00-7.30m: Thinly interlaminated mudstone	7.30	A Y
07 Log COMPOSITI Street, Castleford, We	7.50-9.00 - - - - - 8.30-8.47	28	С		87	70	62				and siltstone. Extremely weak MUDSTONE. Occasional pockets and laminae of grey siltstone. GRADE III. Fractures: Very closely spaced, randomly orientated, incipient, undulating, smooth and rough, with occasional black staining on surface. (MERCIA MUDSTONE GROUP) 7.50-7.70m: AZCL 7.70-7.93m: NI 8.05-8.10m: Pockets of grey siltstone 8.14-8.21m: Thinly laminated 8.30-8.38m: Grey siltstone.	- - - - - - - -	
11 PrjVersion: v8_ Potteries, Pottery_	_				 		•					-	

: L		Boring Pro	ogress and	Water Ob			Chisel	ling / Slow F	Progress		General F	Domor	kc	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)		Jeneral I	\cillal		
<u> </u>														
, i										All dimension	ons in metres	Scale:	1:25	
	Method Used:	Cable Pe	tion pit + ercussion -	Plan Used		ando 3000 Unknown	+	Drilled By: Jo	nny Hutt	Logged I By:	DNartey + RStan	Checked By:		AGS

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BOREHOLE LOG

Contract:							Client:			Boreho	le:	
		EMC	3 Pha	se 2					SEGRO			BH17
Contract Ref	:			Start:	15.09.22	Groun	d Level (m AO	D):	National Grid Co-ordinate:	Sheet:		
7	655	514		End:	16.09.22		74.45		E:446293.6 N:324881.8		3	of 10
Depth		Sample	s & Test	ting		anical L	e ation so		D : 11 (O) 1		Depth	Material
(m)	No	Type	Res	sults	TCR SCR		Was Inst		Description of Strata		(Thick ness)	Graphic Legend

5		Sample	s & resung	'	viecna	anıcaı	Log S + 5	e e		Depth	Mater
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	It Backfill 8 Backfill 8 Backfill 8 Backfill 8	Water	Description of Strata	(Thick ness)	Grapl Lege
9.00-10.50				100	77	69			Extremely weak MUDSTONE. Occasional pockets and laminae of grey siltstone. GRADE III. Fractures: Very closely spaced, randomly orientated, incipient, undulating, smooth and rough, with occasional black staining on surface. (MERCIA MUDSTONE GROUP) (stratum copied from 7.30m from previous sheet) 9.11-10.03m: Thin laminated, locally mottled grey, interlaminated with grey siltstone 9.32-9.37m: Dark laminae of mudstone and siltstone 9.46-9.54m: Grey siltstone 9.49-10.03m: Recovery as sandy gravel.	- - - - - - - -(5.51)	
10.21-10.41	29	С							The second secon	-	
10.50-12.00				*	X	*	-		10.45-10.50m: NI. 10.50-10.64m: NI with band of weak grey siltstone.	- - -	
10.90-11.20	30	С							10.80-10.96m: 71° planar rough clean.	-	
				100	84	84				-	
12.00-13.50				X	X	 	-		11.95-12.00m: NI. 12.00-12.27m: NI.	- - -	
12.41-12.61	31	С							12.19-12.27m: Thinly laminated 12.27-12.29m: Bedding fracture, 5° undulating rough silty clay infill 12.27-12.39m: 85° planar rough yellow and grey stained 12.34-12.49m: Thinly laminated greenish grey	-	
-				100	64	55			siltstone, with occasional yellow staining 12.49-12.81m: Weak 12.75-12.95m: 63° planar rough with calcite infill (<3mm). Extremely weak reddish brown slightly sandy MUDSTONE interbedded with weak to medium strong grey SILTSTONE. Occasional calcite bands (<3mm). GRADE III. (MERCIA MUDSTONE GROUP) Description on next sheet	12.81	

₫		Boring Pro	ogress and	Water (Observations	•	Chisel	ling / Slow	Progress	Conoral	Domorl	' 0	
	Date	Time	Borehole	Casin	Borehole Diameter	Water	From	То	Duration	General	Reman	15	
asile	Date	TITIC	Depth	Depth	(mm)	Depth	1 10111	10	(hh:mm)				
5													
B													
g													
2													
00										All dimensions in metres	Scale:	1:25	
UCIUI						ando 3000 Unknown	+	Drilled Bv: .	lonny Hutt	Logged DNartey + Bv: RStan	Checked Bv:		MAS

GINT LIBRARY V10_01.GLB LibVersion: v8_07_001 PifVersion: v8_07 | Log COMPOSITE LOG - A4P | 785514 EAST MIDLAND AIRPORT GPJ - v10_01. Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10.1NJ. Tel: 01977-552255, Fax: 01977-552299.



BOREHOLE LOG

Contract:					Client	:			Boreho	ole:		-
	EMG Pha	se 2						SEGRO			В	H17
Contract Ref:		Start:	15.09.22	Ground	Leve	l (m AO	D):	National Grid Co-ordinate:	Sheet:			
7	65514	End:	16.09.22		74	.45		E:446293.6 N:324881.8		4	of	10
	Samples & Test	tina	Mecha	nical I d	na «x	<u>_</u>				Б "	Τ.,	

	65	714	End:	16.09.2	_	74.45					of 10
		Samples	& Testing	Med	chanical	_og ∞ , 5	_			Depth	Mate
Depth (m)	No	Туре	Results	TCR SC	RQD	Backfill & Bornstru-	Water	De	escription of Strata	(Thick ness)	Grap
` '		Турс	TCSUIS	(%) (%	6) (%)	(mm) <u>∞</u> E		10.04.10	44	ness)	Logo
13.50-15.00				1 1	` T				41m: Thinly laminated mudstone e. Rare calcite.	-	
							Extre	nelv weak	reddish brown slightly sandy	-	
									terbedded with weak to medium		
									ILTSTONE. Occasional calcite		
								s (<3mm). ((2.32)	
		_							STONE GROUP)	-	
14.01-14.26	32	С							from 12.81m from previous sheet)	-	
								3.50-13.56			
				100 8	3 71				m: Grey siltstone.		
									2m: Weak to medium strong grey	Ī	
							siltsto	ne.		†	
								44.50.44	00 111 11 1 1 1	-	
									.63m: with thin laminae of grey	-	
							siltsto		no. Madium atrono aditatana	-	
									m: Medium strong siltstone.		
									m: Thinly laminated mudstone.		
					.]				5.10m: Frequent calcite pockets	ŀ	
15.00-16.50					$\vdash \vdash \vdash$		(<30n	nm). 5.00-15.13	m: NI	-	
10.00-10.00					[[- 15.13	
									rey SILTSTONE.	-	× × :
							(MER	CIA MUDS	STONE GROUP)	L	\times \times :
									22m: 36° undulating rough, rare		× × ×
								staining.		(0.70)	× × ×
									6m: 8° planar rough, clay infill with	f` '	× × ×
15.60-15.81	22	С					occas	ional browr	n staining. 15.58m: 70° undulating rough	ŀ	×××
13.60-15.81	33									-	× × ×
				100 9	1 84		occas	15 58-15 <i>6</i>	ow and brown staining. 62m: 15° undulating rough. Rare	15.83	× × ×
				\perp , \perp ,			Vellow	/ staining.	Jan. 10 undulating lough. Nate	/[
									brown MUDSTONE interbedded	′ [
									rown fine to medium grained		
									Dccasional pockets and laminae of		
								siltstone. Gl		}	
									STONE GROUP)	ļ.	
							, , , 1	5.83-15.96	m: 50° planar rough.	L	
					, 🗼		1	6.07-16.20	m: Grey siltstone.		
16.50-18.00				A A	\ \ \ \ \				m: 53° planar rough.	(1.47)	
16.50-16.61		SPT	25/50							ŀ	
			for 50mm				1	6.63-17.30	m: AZCL.	-	
										-	
										Γ	
										t	
					_ '_					17.00	
				52 4	7 43		10/	ا المامية	water aliability and to MUDOTONE	17.30	
				$\perp \perp \perp$					rown slightly sandy MUDSTONE	ļ.	
									weak fine grained SANDSTONE. ninae of weak grey siltstone.	L	
							GRAI		iliae oi weak grey silisione.		
									STONE GROUP)	ľ	
47 70 47 00	0.4						(IVILA	OIA WIODO	STONE OROOT)	ŀ	
17.72-17.89	34	С								}	
										ŀ	
					<u> </u>						
						П					
Boi	ring F		and Water Ob				ing / Slow I		General Rem	arke	
Date 7	Time	Borel	0	Borehole Diameter	vvale	II From	То	Duration (hh:mm)			
		Dep	oth Depth	(mm)	Dept	1		(1111.111111)			
1											
									All dimensions in metros Seeler	4.0	<u> </u>
Method	Incr	ection p	it + Plan	t	Dando 30	<u> </u>	Drilled		All dimensions in metres Scale: Logged DNartey + Check	1:2	5 =

2		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	Progress		General I	Domor	ko	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)			Teman	K5	
}			·	•	,									
:														
i														
;										All dimension	ons in metres	Scale:	1:25	
	Method Used:	Cable Po	ction pit + ercussion -	Plan Used		ando 3000 Unknown	+	Drilled By: Jo	nny Hutt		DNartey + RStan	Checked By:	1.23	AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07_1 Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 11\overline 11\overlin

BOREHOLE LOG

0												DOIN			.00
Contract:								CI	ient:				Borel	nole:	
		EMC	3 Pha	se 2								SEGRO			BH17
Contract Ref	:			Start:	15.0	9.22	Grou	und L	evel (m	AOE	D):	National Grid Co-ordinate:	Shee	t:	
7	'65 !	514		End:	16.0	9.22			74.45	5		E:446293.6 N:32488	31.8	5	of 10
Depth (m)	No	Sample Type	s & Test Res		TCR (%)	Mecha SCR (%)	anical RQD (%)	Log If (mm	Backfill & Instru-	Water		Description of Strata	a	Depth (Thick ness)	
18.00-19.50 - - - - - - - - - - - - - - - - - - -	35	С			100	93	87				inte Occ GR (ME (strr gree IVb stai	ak reddish brown slightly sandy rbedded with weak fine grained casional laminae of weak of ADE III. ERCIA MUDSTONE GROUP) atum copied from 17.30m from p. 18.00-18.46m: Interlaminated y siltstone. 18.46-18.62m: with sandy silt rown. 18.62-18.75m: Siltstone with ning. 19.11-19.30m: Very werlaminated with grey siltstone. 19.30m: NI. 19.60-20.24m: Pockets of calcidates and silts of calcidates and silts of calcidates.	SANDSTONE. grey siltstone. previous sheet) sandstone and matrix, GRADE th local yellow eak mudstone te.	(3.31)	
						•	•				greg silts (ME	remely weak to weak reddish y, occasional pockets and stone. GRADE II. ERCIA MUDSTONE GROUP) 20.61-20.68m: NI. ehole terminated at 21.00m dept	laminae grey	(0.39)	× × × × × × × × × × × × × × × × × × ×

	Boring Pro	ogress and	Water Ob	servations		Chisel	ing / Slow	Progress	Conoral	Remarks	
Date	Date Time Borehole Depth		Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remarks	
			-								
									All dimensions in metres	Scale: 1·25	
Method Used:					ando 3000 · Unknown		Drilled By:	Jonny Hutt	Logged DNartey + By: RStan	Scale: 1:25 Checked By:	AGS

BOREHOLE LOG

Contract:				Client:		Borehole	:		
EMG Pha	se 2				SEGRO			В	H18
Contract Ref:	Start:	15.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	06.10.22		77.62	E:446112.9 N:324864.2		1	of	12

			Sample	s & Testing	l N	Mecha	anical	Log	∞ , 5	<u></u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instru-	Water	Description of Strata	(Thick ness)	Graphic Legend
est Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 10:39 TC9	0.00 - 0.00-0.20 - 0.10 - 0.20 0.20-0.40 - 0.40 - 0.50 - 0.50 0.50-0.80 - 0.80-1.20	1 3 2 4 6 5 7 10 8 9 12	D B S D D S B B							l	TOPSOIL Stiff to very stiff brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of mixed lithology included siltstone and occasional quartzite.	0.20	
s.co.uk.	1.00	11	ES									-	
uk, Email: ask@soil	1.20-1.65 1.20-1.65 1.20-1.70	13 14	SPT DSPT B	N=18								-	
www.soils.co.	1.70	15	D									- -	
977-552299, Web: ν	2.00 2.00-2.45	16 17	ES UT _(UT100)	95 blows 100% recovery								- (3.90) -	
77-552255, Fax: 019	2.50 2.50-3.00 - 2.60	18 20 19	D B ES									- - -	
ire, WF10 1NJ. Tel: 019	3.00 3.00-3.45 - 3.00-3.45 - 3.00-3.50	21 22 23	ES SPT DSPT B	N=23								- - -	
	3.50	24	D									- - -	
Potteries, Pottery Street, Castleford, W	4.00 4.00-4.45	25 26	ES UT _(UT100)	116 blows 100% recovery							Firm light brown mottled reddish brown fissured slightly gravelly sandy CLAY. Sand is fine to coarse, predominant coarse. Gravel is angular and subangular fine to coarse of mixed lithology.	- - 4.10 - -	

	Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	Progress	Conoral	Domarka	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General I		
16/09/22 20/09/22 21/09/22	08:30	7.50 9.00 25.50	6.00 None None	200 N/R N/R	5.80 6.30 6.20	7.30 8.50	7.50 9.00	00:30 01:00	Position cleared using Call 2. Hand dug inspection pit to the control of the	o 1.20m.	
Method Used:		tion pit +	Plan • Use		ando 3000 cchio GEO		Drilled Bv:	???	All dimensions in metres Logged DNeylon + By: JAlton	Scale: 1:25 Checked By:	Mes

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Pottery Street, Castleford, West Yorkshire, WF10 1\overline{10.16.01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:39 | TC9 |



BOREHOLE LOG

Contract:				Client:			Borehole	e:		
EMG Pha	se 2				SEGRO				В	H18
Contract Ref:	Start:	15.09.22	Groun	nd Level (m AOD):	National Grid Co-ordinate:		Sheet:			
765514	End:	06.10.22		77.62	E:446112.9 N:324864	l.2		2	of	12

[Sample	s & Testing	N	Mecha	nical	Log	∞ , 5			Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instru- mentation	Water	Description of Strata	(Thick ness)	
_	4.50 4.50 4.50-5.00	27 28 29	D ES B								Firm light brown mottled reddish brown fissured slightly gravelly sandy CLAY. Sand is fine to coarse, predominant coarse. Gravel is angular and subangular fine to coarse of mixed lithology. (stratum copied from 4.10m from previous sheet)	(0.90)	
11/12/22 - 10:40 109	5.00 5.00-5.45 5.00-5.45 5.00-5.50	30 31 32	ES SPT DSPT B	N=31							Stiff to very stiff reddish brown slightly gravelly sandy CLAY. Sand is fine and medium. Gravel is angular and subangular of mudstone. Occasional pockets of grey siltstone (<30mm). GRADE IVb. (MERCIA MUDSTONE GROUP)	5.00	× · × · × · × · × · × · × · × · × · × ·
ask@solls.co.uk.	5.50	33	D									-	· · · · · · · · · · · · · · · · · · ·
www.solis.co.uk, Email: ask@s	6.00 6.00-6.45 6.00-6.45 6.00-6.50	34 35 36	ES SPT DSPT B	N=43								-	* * * * * * * * * * * * * * * * * * *
-552239, Web.	6.50	37	D									-	· · · · · · · · · · · · · · · · · · ·
U1977-55225, FAX. U1977	7.00-7.36 - 7.00-7.45 - 7.00-7.50	38 39	SPT DSPT B	8,12/14,19,17 for 61mm								(4.00)	****** * * * * * * * * * * * * * * * *
WFID INJ. ICI.	7.50 7.50-7.83 7.50-7.95 7.50-8.00	40 41 42	D SPT DSPT B	10,13/18,26,6 for 25mm								- - -	× × × × × × × × × × × × × × × × × × ×
west rorksille,	8.00-8.38	43	SPT	8,10/11,15,24 for 75mm								-	*
olleel, Castlelold, We	8.00-8.50	44	В									- -	
Poueries, Pouery Street,	8.50 - -	45	D									9.00	* • • • • • • • • • • • • • • • • • • •

T														
e E		Boring Pr	ogress and	Water Ol	oservations		Chise	lling / Slow l	Progress		Canaral	Damar	-la	
erora:	Date	Time	Borehole	- 5	Borehole Diameter	Water	From	То	Duration (hh:mm)		General	Remai	KS	
ası			Depth	Depth	(mm)	Depth			(1111.11111)					
י ו														
5	ļ													
:	ļ													
gal														
ġ.	ļ													
2														
ž										All dimen	sions in metres	Scale:	1:25	
ructur	Method Used:		ction pit +	Plar + Use		ando 3000 acchio GEC		Drilled By:	???	Logged By:	DNeylon + JAlton	Checked By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Soils Lid, Branch Office - Castleford: The Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552295, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. | 11/12/22 - 10:40 | TC9 |



BOREHOLE LOG

Contract:			Client:		Borehole) :		
EMG P	hase 2			SEGRO			Вł	H18
Contract Ref:	Start: 1	15.09.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End: 0	06.10.22	77.62	E:446112.9 N:324864.2		3	of	12

			Liiu.	00.1							
.		Sample	s & Testing		Mech	anical	_og 🙇 ှ <u>ë</u>	<u>0</u>		Depth	Material
Depth (m)	No	Туре	Results	TCF (%)	SCR (%)	RQD (%)	od lt Backfill & Instru-mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
9.00-10.50 9.00-9.21 - 9.00-9.45	46	SPT DSPT	18,7/31,19 for 42mm		A	A			AZCL. (MERCIA MUDSTONE GROUP)	(0.40)	AZCL
9.90	47	D		80	15	0			Reddish brown clayey angular to subangular fine to coarse GRAVEL of mudstone. Sand is fine to coarse and mudstone derived. Gravels and matrix showing traces of thin laminated. GRADE III. (MERCIA MUDSTONE GROUP)	9.40	
10.50-12.00									Very weak greenish grey SILTSTONE. Bedding fractures: Very closely spaced, rough, undulating. (MERCIA MUDSTONE GROUP) 7 10.40-10.45m: Extremely weak reddish brown processes.	- 10.15 - (0.35) - 10.50	× × × × × × × × × × × × × × × × × × ×
11.10-11.30		С		87	63	41			mudstone. Very weak reddish brown MUDSTONE with occasional fine to medium gravel size pockets of greenish grey siltstone. GRADE II. (MERCIA MUDSTONE GROUP)	- - -(1.05) - -	
12.00-13.50									Extremely weak reddish brown MUDSTONE very thinly to thickly interlaminated with very weak greenish grey SILTSTONE. Bedding fractures: Very closely spaced, rough, undulating, infilled with reddish brown clay. (MERCIA MUDSTONE GROUP)	(0.45)	× × × × × × × × × × × × × × × × × × ×
12.60	49	D		100	39	0			brown sandstone. Very weak reddish brown MUDSTONE with occasional fine to medium gravel size pockets of greenish grey siltstone. GRADE II. Fractures: Closely spaced, randomly orientated. (MERCIA MUDSTONE GROUP) 12.15-12.25m: Recovered as sandy angular fine to coarse gravel, verging towards GRADE III.	-(1.25)	
-									Description on next sheet	- - 13.25 - -	× × × × × × × × × × × × × × × × × × ×

							1								
É		Boring Pro	ogress and	Water	Observa	ations		Chisell	ing / Slow F	Progress		Conoral	Domor	ko	
5	Date	Time	Borehole	Casin		ehole neter	Water	From	То	Duration		General I	Remai	KS	
236	Date	Time	Depth	Depth		im)	Depth	FIOIII	10	(hh:mm)					
j															
ŝ															
,															
2															
j ē											All dimens	sions in metres	Scale:	1:25	
5	Method Used:		tion pit +		ant		ndo 3000		Drilled	???	Logged	DNeylon +	Checked Bv:		MAS
- 1	USea.	Cable P	ercussion :	+ 103	sed: (::oma	cchio GFC	1705	Bv:		l Bv:	.IAlton	IDV.		

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BOREHOLE LOG

Contract:			Client:		Borehol	e:		
EM	G Phase 2			SEGRO			ВІ	H18
Contract Ref:	Start:	15.09.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	06.10.22	77.62	E:446112.9 N:324864.2		4	of	12
0	- 0 T4:		:					

			Sample	s & Testing	N	Necha	anical	l Log	∞ ' ë	<u>~</u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQE (%)	If (mm	Backfil Instru mentat	Water	Description of Strata	(Thick ness)	Graphic Legend
soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 10:40 TC9	13.50-15.00	50	D		100	17	0				Weak greenish grey SILTSTONE very thinly interbedded with extremely weak reddish brown mudstone and clay bands. (MERCIA MUDSTONE GROUP) (stratum copied from 13.25m from previous sheet) Extremely weak reddish brown MUDSTONE. GRADE II. Fractures: Very closely spaced, randomly orientated, rough, undulating, with occasional black staining along surfaces. (MERCIA MUDSTONE GROUP) 14.00-14.03m: Trace thin laminae and recovered partly as clayey gravel 14.40-14.75m: Some fractures are stained yellow 14.75-14.80m: Very weak greenish grey siltstone.	(0.55)	X X X X X X X X X X X X X X X X X X X
w.soils.co.uk, Email	15.00-16.50				-	*	*				AZCL. (MERCIA MUDSTONE GROUP) Extremely weak reddish brown MUDSTONE, recovered as sandy angular to subangular fine to	15.20	AZCL
est Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www	15.90	51	D		87	0	0			<u>+</u>	coarse gravel. GRÁDE III. (MERCIA MUDSTONE GROUP) Extremely weak reddish brown MUDSTONE. GRADE II. Fractures: Very closely spaced, randomly orientated, with occasional black staining on surfaces. (MERCIA MUDSTONE GROUP)	15.70	
orkshire, WF10 1NJ. Tel: 01977-56	16.50-18.00				*	*	•	_			Very weak greenish grey fine grained SANDSTONE. Bedding fractures: Closely spaced, rough, undulating. (MERCIA MUDSTONE GROUP) Extremely weak reddish brown thinly laminated	16.56	
otteries, Pottery Street, Castleford, West Y	. 17.55-17.80	52	С		77	50	35				MUDSTÓNE. GRADE II. (MERCIA MUDSTONE GROUP) 16.90-17.00m: Randomly orientated fractures. AZCL Very weak to weak reddish brown MUDSTONE with occasional gravel size pockets of siltstone. GRADE II. (MERCIA MUDSTONE GROUP)	17.10	AZCL

2		Boring Progress and Water Observations ate Time Borehole Depth Depth Diameter (mm)					Chisel	ing / Slow F	Progress		General I	Domor	kc	
	Date	Time		U	Diameter	Water Depth	From	То	Duration (hh:mm)		Generali	Tellial		
}														
										All dimens	sions in metres	Scale:	1:25	
:	Method Used:					ndo 3000 cchio GEC		Drilled By:	???	Logged By:	DNeylon + JAlton	Checked By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrIVersion: v8_07 | Log COMPOSITE LOG - A4P | 785514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255. Fax: 01977-552299.



BOREHOLE LOG

Contract:					Client:			Borehol	le:		
	EMG Pha	se 2					SEGRO			В	H18
Contract Ref	:	Start:	15.09.22	Ground	d Level (m AOE):	National Grid Co-ordinate:	Sheet:			
7	65514	End:	06.10.22		77.62		E:446112.9 N:324864.2		5	of	12
	OI 0 T4							1			

5 "		Samples	s & Testing		Mech	anical	Log ≝ - <u>i</u>	ē				Depth	Materia
Depth (m)	No	Туре	Results	TCF (%)	SCR (%)	RQD (%)	It Backfill & Bod	Water			escription of Strata	(Thick ness)	Graphi Legen
_ 18.00-19.50 - - -									with o	ccasional E II. CIA MUDS	reak reddish brown MUDSTONE gravel size pockets of siltstone STONE GROUP) from 17.55m from previous sheet,		
- - -				97	69	37			sand s	STONE vized vugs.	greenish grey fine grained with occasional fine to medium es: Very closely spaced, rough	١ -	
- - 19.10-19.20	53	С							undula	ating.	STONE GROUP)	-	
-									Extren	nelv weal	k reddish brown MUDSTONE	19.25	:::::
-				L.	<u> </u>	l y			intersp	ersed with	n greenish grey siltstone. GRADE	19.35	
_ 19.50-21.00 - - -									Moder fine gr (MER angula	ately weal ained SAN CIA MUDS 19.50-19.6 ar medium	STONE GROUP) to medium strong greenish grey IDSTONE. STONE GROUP) 60m: Reddish brown very clayey to coarse gravel.	(0.95)	
-				97	77	61			infilled 1 weak r	with reddi 9.83-19.8 eddish bro	Rough planar bedding fracture sh brown clay. 7m and 19.90-19.95m: Extremely own mudstone.	20.30	
- -									infilled thin be	with reddi 20.10-20.° eds of redd	Rough planar bedding fracture sh brown clay. 15m: Thinly laminated with some lish brown clay. 30m: Thinly laminated and partly		
- - 20.75 - 20.85	54	С							recove	ered as fine nely weak	e to medium size gravel. reddish brown MUDSTONE with	(1.00)	
_ _ _21.00-22.50 -				*	X	 			greeni (MER	sh grey sil CIA MUDS	o coarse gravel size pockets of t. GRADE II. STONE GROUP) m: 75° undulating rough fracture.	21.30	
- - - - 21.80-22.05	55	С		93	40	40			SILTS reddisi a sand gravel larger	TONE in h brown ndy gravel fragments gravel / co	to very weak greenish grey terspersed with extremely weak nudstone. Generally recovered as to cobbles, with laminae in some . Randomly orientated fractures in bbles. STONE GROUP)	(0.75)	X X X X X X X X X X X X X X X X X X X
_												22.05	× × ×
-									fine to	medium ilt. GRADE	wn sandy CLAY with occasiona gravel size pockets of greenish IVa.	(0.30)	
-										CIA MUDS	STONE GROUP) vext sheet	22.35	
				_ T	1 1	1 7			L			1 22.00	1
		Progress Borel	and Water Ol	Bore Diam	hole	Wate	r	lling	J / Slow F	Duration	General Rem	narks	
Date 1	Гime	Dep	oth Depth	(mi		Dept	From		To	(hh:mm)			
											All dimensions in metres Scale:	1:2	5
	able	ection p	sion + Use			ndo 30 chio	00 + SEO 205	Dri By	illed r:	???	Logged DNeylon + Check By: Sylvan By:		ΑÜ

<u> </u>		Boring Pro	ogress and	Water O	oservations		Chisel	ling / Slow F	Progress		General	Domor	ko	
Sileioid	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)		General	Remai	K5	
CII Oillog - oa				•		•								
Olls Ltd, Dian														
5										All dimens	sions in metres	Scale:	1:25	
און מרותוי	Method Used:		tion pit + ercussion	Plai Use		ando 3000 Icchio GEC		Drilled By:	???	Logged By:	DNeylon + JAlton	Checked By:		AGS



BOREHOLE LOG

Со	ontract:				Client:				Borehol	le:		
	EMG Pha	se 2						SEGRO			В	H18
Со	ontract Ref:	Start:	15.09.22	Groun	d Level (m	AOD):	National Grid Co-ordinate:	Sheet:			
	765514	End:	06.10.22		77.62	<u>. </u>		E:446112.9 N:324864.2		6	of	12
											\neg	

Depth		Sample	s & Testing	ľ	Mecha	anical	Log	≅ - le	<u>~</u>		Depth	Material
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instru- mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
22.50-24.00	56	С		97	777	53				Very weak greenish grey fine to medium grained SANDSTONE. (MERCIA MUDSTONE GROUP) Extremely weak to very weak reddish brown MUDSTONE with frequent fine to coarse gravel size pockets of greenish grey siltstone. GRADE II. (MERCIA MUDSTONE GROUP) 22.50-22.80m: Very closely spaced randomly orientated rough undulating fractures, partly recovered as angular fine to medium gravel 22.90-23.05m: Thinly interlaminated with greenish grey siltstone and sandstone.	- - - - - - - - - - - - - - - - - - -	
24.80-24.92 - - - - - -	57	С		100	67	42				Extremely weak greenish grey SILTSTONE interspersed with laminae and lenses of extremely weak reddish brown mudstone and clay. Verging towards a silt in some of the siltstone bands. (MERCIA MUDSTONE GROUP) Extremely weak reddish brown MUDSTONE. GRADE II. (MERCIA MUDSTONE GROUP) Very weak greenish grey SILTSTONE. (MERCIA MUDSTONE GROUP)	- 24.45 - (0.40) - 24.85 - (0.35) - 25.20 - (0.30) - 25.50	X X X X X X X X X X X X X X X X X X X
-											- - - - - - - - -	

	Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	rogress	General	Domorl	' 0	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remair	(5	
				(****)	•							
Method Used:		ction pit +	Plan • Used		ando 3000 · cchio GEC	I	Drilled By:	???	All dimensions in metres Logged DNeylon + By: JAlton	Scale: Checked By:	1:25	AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web.

BOREHOLE LOG

Contract:				Client:		Borehole	e:		
EMG Pha	se 2				SEGRO			В	H19
Contract Ref:	Start:	14.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	16.09.22		76.63	E:446150.1 N:324740.8		1	of	11

ı		Samples & Testing										1	
			Sample	s & Lesting		/lecha			J ≣	ē		Depth	Material
	Depth		_		TCR	SCR	RQD	If (mm)	Backfill	Water	Description of Strata	(Thick	Graphic
	(m)	No	Туре	Results	(%)	(%)	(%)	(mm)	m	>	·	ness)	Legend
İ					. ,	. ,	,	,	*****		TOPSOIL		7/1/V. 7/1/V. 7
ł	0.10	4	D						\bowtie		101 0012	(0.35)	[i, i, j, i, j]
ļ	0.10	1 2	B						\bowtie			(0.55)	
	- 0.20	101		1xT+1xJ+1xV					\bowtie			١٠٥٠	76.76.7
_ [0.20	101	E9	IXI+IXJ+IXV					\bowtie		Oct 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.35	
- 10:40 C9	-								>>>>		Stiff reddish brown, mottled grey, slightly gravelly	<u> </u>	<u></u>
-	-								>>>>		sandy CLAY. Gravel is angular to subangular fine	-	
4:0	_								\bowtie		to coarse sandstone and mudstone lithorelics. GRADE IVa.	-	·_ · _ · _
<u>-</u> ا	_								\bowtie		(MERCIA MUDSTONE GROUP)		
7									\bowtie		(INIERCIA INIODS FONE GROUP)		
	-								\bowtie				<u> </u>
=	0.90	3	D						*****			-	
¥. ∤	0.90-1.20	4	В						*****			-	
8	- 1.00	102	ES	1xT+1xJ+1xV								-	
<u> </u>									*****				
<u></u>	1.20-1.65	5	UT _(UT100)	150 blows					1.7.7				F
as	-		,	78% recovery								[
Email: ask@soils.co.uk. 11/12/22	-								1//			t	
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¥.	-											-	
8	- 1.65-1.75	6	D						///				
soils.co.uk,	1.00 1.70								///				<u>- • · · · · •</u>
	-											Ī	
Web: www	1.90	7	D						///			-	
ep:	2.00-2.45	l '	SPT	N=27					///			-	<u> </u>
ر ا	2.00-2.45	10	B	IN-21								-	· • • · ·
55	2.00-2.45	9	DSPT						///			Ļ	·
222	2.00-2.40	"							///				
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552255, Fax: 0197	-								///			<u> </u>	<u></u>
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ζ,	-											(4.65)	
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ဂို	2.70	11	D						///			_	
01977													• • • • • •
	-								///			Ī	
<u> </u>	3.00-3.44		SPT	6,7/10,13,13,14					///				
10 1NJ. Iel:	- 5.00 5.44			for 65mm								}	<u> </u>
0	3.00-3.44	13	DSPT						V//			}	<u> </u>
¥	3.00-3.45	14	В						1//			ļ	
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Yorkshire,	=								1///				
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ora,	3.70	15	D						1//			<u> </u>	<u> </u>
i et	_								<i>[///</i>			L	<u> </u>
Cas									1//				F
je,	4.00-4.44		SPT 1	0,13/13,13,13,1	1				1//			Γ	
215	-			for 60mm					<i>[///</i>			<u> </u>	<u> </u>
er	4.00-4.44	17	DSPT						1//			ŀ	<u> </u>
ة	4.00-4.45	18	В						1//			}	
- S	-										4.35-4.45m: medium strong grey siltstone	-	
Potteries, Pottery Street, Castleford, Wes									1//]		<u> </u>
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The		Boring Pro	ogress and	Water Ob	servations		Chisel	lling / Slow F	Progress	Canaral	Damarl	, <u> </u>	
Castleford:	Date	Time	Borehole		Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remark	is	
astl			Depth	Depth	(mm)	Depth			(1111.11111)	1 Desition algored using C	AT and Can	21.1	
Ÿ	14/09/22	16:21	5.00	3.00	200	Dry				1. Position cleared using C 2. Hand dug inspection pit		ıy.	
<u>S</u>	16/09/22	08:00	5.00	5.00	114	Dry				3. SPT hammer AR3104-2		00%) 1	lsed
Branch Office	16/09/22	17:00	20.00	5.00	114	Dry				0, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	.o (_ r o		
Ę													
ural Soils										All dimensions in metres	Scale:	1:25	
tructura	Method Used:		ction pit +	Plan Used		ando 3000 ·		_	nny Hutt + Martin	Logged AJones + By: RSenior	Checked By:		AGS

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BOREHOLE LOG

Contract Ref: Start: 14.09.22 Ground Level (m AOD): National Grid Co-ordinate: Sheet:	Contract:				Client:			Borehole) :		
	EMG Pha	se 2					SEGRO			В	H19
765514 End: 16.09.22 76.63 F:446150.1 N:324740.8 2 of	Contract Ref:	Start:	14.09.22	Ground	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
10011 Elia: 1010122 1010 21110100111102111010 2 01	765514	End:	16.09.22		76.63		E:446150.1 N:324740.8		2	of	11

		Sample	s & Testing	1	Mech	anical	Log	I≡	į.		Depth	Material
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill	Water	Description of Strata	(Thick ness)	Graphic Legend
4.70	19	D								Stiff reddish brown, mottled grey, slightly gravelly sandy CLAY. Gravel is angular to subangular fine to coarse sandstone and mudstone lithorelics. GRADE IVa. (MERCIA MUDSTONE GROUP) (stratum copied from 0.35m from previous sheet)	5.00	
5.00-6.50 5.00-5.39 5.00-5.39	21	SPT DSPT	8,12/13,16,16,5 for 15mm							Stiff thickly laminated to thinly bedded reddish brown, mottled light grey, CLAY with occasional subangular fine to medium gravel size mudstone lithorelics. GRADE III. (MERCIA MUDSTONE GROUP)5.00-5.74m: AZCL (SPT).	-	
- - - -				51	0	0	NI NI			5.83-5.84m: extremely weak siltstone.	- - - -(2.25)	
6.50-8.00 6.50-6.90	21	D SPT	5,7/10,14,16,10 for 25mm	X	X	*	NI			6.36-6.50m: 3 no very closely spaced thin beds of extremely weak to very weak siltstone 6.50-7.25m: AZCL (SPT).	-	0
- - - - - 7.50	22	D		50	0	0				7.18-7.26m: 80° undulating smooth discontinuity with occasional black spots on surface. Extremely weak very thinly bedded, locally thickly laminated, reddish brown MUDSTONE. GRADE	- - 7.25 -	
8.00-9.50		CDT	2 10/10 21	X	X		NI 20 130			II. Bedding fractures: Very closely to closely spaced, undulating, rough, with a little clay smear on surfaces and locally stained black. (MERCIA MUDSTONE GROUP) 7.32m: 5° undulating smooth discontinuity with frequent black spots and a little vellowish.	-	
8.80	23	SPT D	2,10/19,31 for 70mm	97	23	7	NI NI 30			with frequent black spots and a little yellowish brown staining 7.40-7.53m: 80° to 90° undulating rough black stained discontinuity 7.45-7.50m: 50° undulating smooth black stained discontinuity 7.54-7.57m: 50° undulating smooth black stained discontinuity 7.58-7.62m: 45° undulating smooth black stained discontinuity. Description on next sheet	(2.00)	

2		Boring Pro	ogress and	Water O	oservations		Chisell	ing / Slow F	rogress		General I	Domor	l/o	
	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	,	Jenerai i	Remai	KS	
5			Depth	Depth	(mm)	Depth			,					
	1													
3	1													
5	1													
2	1													
5	1													
į	1													
2	1													
5										All dimension	ons in metres	Scale:	1:25	
2	Method								ny Hutt +		AJones +	Checked		IJ
	Used:	Cable Pe	ercussion -	+ Use	d: Com a	cchio GEC	205	By: I	Martin	By:	RSenior	By:		AGS

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Opp												BOKI	EH	UL	EL	.UG
Contract:								Cli	ent:					Boreho	le:	
		EMO	G Pha	se 2								SEGRO				BH19
Contract Re	f:			Start:	14.09	9.22	Grou	und L	evel (m	AOE)):	National Grid Co-ordinate:		Sheet:		
765514 End: 16.09.22								•	76.63	3		E:446150.1 N:32474	40.8		3	of 11
Depth (m)	Samples & Testing Mechanica h TCR SCR RQI					RQD	<u>_</u>	Backfill	Water		Description of Strata	a		Depth (Thick ness)	Material Graphic Legend	
-					97	23	7	NI NI 30	///. ///. ///. ///.		sub	. 7.62-7.74m: very stiff clay v angular fine to coarse gravel siz emely weak mudstone. . 8.00-8.20m: Drilling disturbed	ze lithore	elics of	- - 9.25 -	

Depth Campies & resums				VICCIIC		_ <u> </u>	-l -⊊ l	<u>ā</u>		Depth	Mate	
		Results		SCR (%)			Backfill	Water	Description of Strata	(Thick ness)	Grap Lege	
				97	23	7	NI NI 30			7.62-7.74m: very stiff clay with occasional subangular fine to coarse gravel size lithorelics of extremely weak mudstone.	- - 9.25	
				91	23	'	1			8.00-8.20m: Drilling disturbed, recovered NI as gravel.	-	
9.50-11.00				 	*	*	-			8.33-8.50m: 80° to 90° undulating smooth black stained discontinuity occasionally with a little clay smear on surfaces.	(0.70)	
										8.50-8.56m: NI with extremely closely spaced randomly oriented undulating smooth clay smeared discontinuities, locally black stained 8.87-8.89m: extremely weak siltstone 8.90-8.93: very weak mudstone.	- - - 9.95 -	
				87	37	0				Very weak very thinly to thinly bedded reddish brown MUDSTONE. GRADE II. Bedding fracture: Very closely to closely spaced,	-	
					3					0° to 5°, planar and undulating, smooth, clean, locally with a little clay smear and black staining on surfaces.	-	
10.53-10.63	24	С								(MERCIA MUDSTONE GROUP) 9.26-9.32m: 85° undulating rough discontinuity with frequent black specks.	-	
							 NI			9.32-9.43m: 90° undulating smooth black stained discontinuity 9.35-9.45m: 50° undulating rough	-	
11.00-12.50							10 70			discontinuity with a little clay smear on surfaces 9.50-9.75m: extremely weak very thinly to thinly bedded mudstone.	-	
										Extremely weak thickly laminated to thinly bedded reddish brown MUDSTONE. GRADE II. Bedding fractures: Extremely closely to closely spaced, undulating, smooth, with a little clay smear on surfaces.	(2.85)	
12.00	25	D		100	11	0				(MERCIA MUDSTONE GROUP) 9.95-10.15m: Discontinuity are extremely closely to very closely spaced randomly orientated undulating smooth with black staining on surfaces.	- - -	
00										10.15-10.21m: extremely weak light greenish grey siltstone 10.26-10.40m: 70° undulating smooth black stained discontinuity.	- -	
12.50-14.00				+	+	*				10.29-10.31m. 20° undulating smooth black stained discontinuities 10.42-10.55m: firm to stiff thinly to thickly laminated reddish brown clay with frequent gravel	- -	
										size lithorelics 10.75-10.85m: 75° undulating smooth discontinuity with occasional black staining on	12.80	
12.93-13.16	26	С		95	27	0	NI NI 100			surfaces 10.85-11.00m: AZCL 11.00-11.15m: drilling disturned, recovered NI as clayey gravel 11.18-11.23m: very weak to weak very thinly	(0.73)	
										bedded greenish grey siltstone. Description on next sheet	-	

		Boring Pro	ogress and	Water Ob	servations		Chisel	ing / Slow F	rogress	Cou	oorol l	Remar	ko	
	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	Gei	lerari	Remai	KS	
į l			Depth	Depth	(mm)	Depth			(
<u>'</u>														
5														
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2														
										All dimensions in	n metres	Scale:	1:25	
) I	Method Used:		tion pit +	Plan Use		ando 3000 icchio GEC		Drilled Jon By:	ny Hutt + Vartin	_ 00	nes + enior	Checked By:		AGS

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alle												BOREH	OL	EL	.OG
Contract:								Cli	ent:				Boreho	ole:	
		EMG	Pha									SEGRO			BH19
Contract Ref	:			Start:	14.09	9.22	Grou	und Le	evel (m	AOE	D):	National Grid Co-ordinate:	Sheet:		
7	65	514		End:	16.09	9.22		7	76.63	}		E:446150.1 N:324740.8		4	of 11
Double		Samples	s & Test	ting			anical		■	er				Depth	
Depth (m)	No	Туре	Res	sults	TCR (%)	SCR (%)	RQD (%)	If (m <u>m</u>)	Backfill	Water		Description of Strata		(Thick ness)	Graphic Legend
								*	///			11.25-11.36m: 85° undulating		13.53	
-						07					surf	continuity with frequent black spec faces.		-	
-					95	27	0		///		clos	. 11.36-11.45m: Discontinuities are ext sely to closely spaced randomly orientate	remely and with	(0.72)	
- 					<u> </u>	<u> </u>	ų.					mm clay on surfaces. Locally surface			
14.00-15.50 					1	1	1					12.43-12.50m: extremely weak light	nt grey	-	
_												stone 12.55-12.80m: 85° undulating	rough	14.25	
_											disc	continuities with frequent black spo faces.	ts on	_	
14.45-14.59	27	С									Stiff	f thickly laminated to very thinly bedded i	eddish	(0.60)	
_											brov	wn, mottled light grey, CLAY with occ gular and subangular fine to medium grav	asional /el size	-	
_					97	40	17				mud	dstone lithorelics. GRADE III.			
_									///		clos	dding fractures: Extremely closely to sely spaced, 0° to 5°, undulating, smoo	th and	14.85	
_											rou	gh, clean, locally with a little clay sm faces.	ear on	_	
_											(ME	ERCIA MUDSTONE GROUP)		(0.65)	
-												ratum copied from 12.80m from previous		- (* * * *)	
_									///		redo	remely weak very thinly to thickly t dish brown MUDSTONE. GRADE II.			
45 50 47 00					+	<u> </u>	<u> </u>	.				dding fractures: Extremely closely to sely spaced, 0° to 5°, planar, smoot		15.50	
15.50-17.00					[///		und	dulating, rough, locally stained black ar	nd with	-	
_								NI 20	///		OCC (ME	asional black spots. ERCIA MUDSTONE GROUP)		-(0.65)	
								200	///		`	. 13.56-13.63m: 85° to 90° undulating s	smooth	- (0.00)	
_									///		Diac	ck stained discontinuity. . 13.68-13.71m: very weak light greenis	sh grey	-	
-									///			stone. . 13.76-13.80m: very weak light greenis	sh arevir	16.15	
_					100	49	7		///		silts	stone.		-	
-												. 13.82-13.85m: very weak light greenis stone.	h grey	-	
-									///		∥	. 13.85-13.90m: stiff reddish brown clay.		-	
16.58-16.65	28	С									silts	13.90-13.95m: very weak greenis stone.	, ,	-	
ţ											.	. 14.06m: 1 no 15mm diameter reduction . 14.16-14.22m: 88° undulating smooth	spot.		
-									///		stai	ned discontinuity.		(1 GE)	
_ 					X	X	 	$\left\{ \ \right\}$	1//		Ver	y weak very thinly to thickly bedded in MUDSTONE. GRADE II.	eddish	(1.65)	
									1//		Bed	dding fractures: Very closely to closely s		-	
									1//		loca	phorizontal, undulating, smooth, stained ally clean.	Diack	_	
-									1//		(ME	EŘCIA MUDSTONE GROUP)	, block	-	
-					100	24	13		///		stai	. 14.30-14.33m: 85° undulating smoothined discontinuity.		-	
-												. 14.33-14.42m. 80° to 90° undulating an locally black stained discontinuity.	rough	-	
17.70	29	D									١.	14.35-14.45m: extremely weak	clayey	17.80	
-												stone. scription on next sheet		-	
									レンン		<u> </u>	•	1		

	Boring Pro	ogress and	Water Ob	servations		Chisel	ing / Slow F	rogress	General	Domor	ko	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remai	KS	
									All dimensions in metres	Scale:	1:25	
Method Used:	Cable P	ction pit + ercussion -	Plan Used		ando 3000 cchio GEC	+) 205	•	ny Hutt + Vartin	Logged AJones + By: RSenior	Checked By:		AGS

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<i>9</i> -														OL		
Contract:								CI	ient:					Boreho	le:	
		EMC	3 Pha	se 2								SEGRO				BH19
Contract Re	f:			Start:	14.0	9.22	Gro	ound L	evel (m	AOE	D):	National Grid Co-ordina	te:	Sheet:		
	765	514		End:	16.0	9.22		1	76.63	3		E:446150.1 N:	324740.8		5	of 11
		Sample	s & Test	ting		Mecha	anica	al Log		<u>~</u>					Depth	Material
Depth (m)	No	Туре	Res	sults	TCR (%)	SCR (%)		D If) (mm	Backfill	Water		Description o	f Strata		(Thick ness)	Graphic Legend
-	(II) 140 Type (Nesults (%) (%)								///		disc	14.60-14.72m: 8 continuity with occasion			(0.70)	

Depth		Samples	s & Lesting		Mech		<u> </u>	Backfill	Water	-	position of Ctusts		oth Ma ick Gra
(m)	No	Туре	Results	TCR (%)		RQD (%)) Bac	Wa	Di	escription of Strata	ne:	
				100	24	13	NI 20 200			discontinuity wi surfaces. 14.72m: tl grey siltstone ba	14.72m: 85° undulating th occasional black specting lamination (3mm) of grand.	eenish	
18.50-20.00							1			reddish brown M Bedding fracture subhorizontal, u and occasionally	UDSTONE. GRADE II. s: Very closely to closely s ndulating, smooth, black s clean.	paced,	
18.80-18.96 -	30	С								14.86-14.89 15.00-15.40	STONE GROUP) m: siltstone inclusions (<50 m: randomly orientated ext closely spaced undulating s	remely smooth	
				100	67	50	NI 20 60			15.40-15. stained discontin	50m: 75° undulating rough uity. < thinly and thickly lan	ninated	50)
19.50-19.70	31	С								laminae of siltsto Bedding fractur closely spaced,	MUDSTONE with occasion ne. GRADE II. res: Extremely closely to subhorizontal, undulating, s ally with a little silt on surfac	very mooth,	
-				 						(MERCIA MUDS 15.90-15.98	BTONE GROUP) m: weak grey siltstone. m: very weak light grey silts	20.	00
										very thinly bedogrey, MUDSTON	to very weak thickly lamin- ded reddish brown, mottle NE. GRADE II. es: Extremely closely to	ed light	
										spaced, 0° to 5° clay smear on sublack spots.	c, undulating, smooth, with urfaces and locally with occusions GROUP)	a little	
-										16.15-16.50 closely to very oblack stained dis 16.58-16.61 16.70-16.80	Om: randomly orientated ext closely spaced undulating s continuities, occasionally cl m: siltstone inclusions (<40 Om: 85° to 90° undulating s	smooth ean. mm).	
										black stained of surfaces.	continuity. 1m: 80° to 85° undulating s iscontinuity with <1mm c m: Randomly oreintated ext	lay on	
										closely to clos predominantly bl 17.60-17.80	ely spaced undulating s ack stained discontinuities. m: Recovered NI as gravel. eak thinly bedded reddish	smooth	
-										Bedding fracture 0° to 5°, undul stained. (MERCIA MUDS	es: Very closely to closely s ating and planar, smooth, STONE GROUP)	, black	
										black stained of 17.80m from pre	m: 80° to 90° undulating siscontinuity.(stratum copie vious sheet)	d from	
Вог	ring F	Progress	and Water O					Chise	lling	/ Slow Progress	General I	2amarl	e
Date 1	Γime	Borel Dep	0	Borel Diam (mr	eter	Wate Dept		From		To Duration (hh:mm)	Generali	veilla!k	
											All dimensions in metres	Scale: 1	:25
Method Used: C		ection p				ndo 30			Dri By:	led Jonny Hutt + Martin	Logged AJones + By: RSenior	Checked By:	.23

_													
E E		Boring Pro	ogress and	Water C	bservations	i	Chisel	ling / Slow F	Progress	Caparal	Domor	ko	
j O	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration	General	Remai	KS	
asile	Date	Tillie	Depth	Depth	(mm)	Depth	1 10111	10	(hh:mm)				
י וי													
5													
5													
ם ם													
Ę													
200										All dimensions in metres	Scale:	1:25	
ਰ							L			All difficusions in medies	Scale.	1.25	
ī,	Method		ction pit +	Pla	_	ando 3000			ny Hutt +	Logged AJones +	Checked		
=	Used:	Cable Po	ercussion ·	+ ∣Us	ea: Coma	ecchio GEC	205	Bv:	Martin	Bv: RSenior	Bv:		Mas



BOREHOLE LOG

Contract:			Clien	t:			Borehole	e:		
EMG Pha	se 2					SEGRO			В	H19
Contract Ref:	Start:	14.09.22	Ground Leve	el (m AOD)):	National Grid Co-ordinate:	Sheet:			
765514	End:	16.09.22	76	6.63		E:446150.1 N:324740.8		6	of	11

			Sample	s & Testing	ľ	Mecha	nical	Log	=	<u>_</u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill	Water	Description of Strata	(Thick ness)	Graphic Legend
ries, Pottery Street, Castielord, West Yorkshire, WP 10 1NJ. 181: 01977-352239, Web: Www.solis.co.uk, Email: ask@solis.co.uk, 11712/2 - 10:40 10:9	-										Very weak very thinly to thinly bedded reddish brown MUDSTONE. GRADE II. Bedding fractures: Extremely closely to closely spaced, 0° to 5°, undulating, smooth, clean, locally black stained with occasional clay smear on surfaces. (MERCIA MUDSTONE GROUP) 18.50-18.56m: drilling disturbed, recovered as gravel 18.88-19.04m: moderately weak light greenish grey siltstone 19.10-19.14m: 30° undulating smooth black stained discontinuity 19.20-19.21m: 20° undulating smooth black stained discontinuity 19.42-19.45m: 30° undulating smooth discontinuity with occasional black specks 19.74-19.80m: 60° undulating smooth black stained discontinuity. Borehole terminated at 20.00m depth.		

<u> </u>		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	rogress	General	Domor	ko	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remai	KS	
5				-									
בומי ב													
5										All dimensions in metres	Scale:	1:25	
	Method Used:	Cable Pe	tion pit +	Plan Used		ando 3000 cchio GEC		By: I	ny Hutt + Martin	Logged AJones + By: RSenior	Checked By:		AGS

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GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:40 | TC9 |

Rotary Cored

BOREHOLE LOG

Contract:				Client:				Boreho	le:		
EMG Ph	ase 2						SEGRO			В	H20
Contract Ref:	Start:	15.09.22	Groun	d Level	(m A	OD):	National Grid Co-ordinate:	Sheet:			
765514	End:	15.09.22		76.9	91		E:446017.0 N:324870.9		1	of	16

L		65	714	End:	15.0	9.22		70	.91			E:446017.0 N:324870.9	I	of 16
Ī			Sample	s & Testing	1	Mechar	nical Lo	og	<u>s</u>	= 1	_		Depth	Material
	Depth (m)	No	Туре	Results		SCR F		If Fall	Returns & Detail	Backfill	Water	Description of Strata	(Thick ness)	Graphic Legend
-	0.00-0.20 0.10 0.10 0.25	1 101 2 3	B ES D	1xT+1xJ+1xV	/	(- /			<u> </u>			TOPSOIL	(0.40)	\(\frac{1}{2}\), \(\frac{1}\), \(\frac{1}\), \(\frac{1}{2}\), \(\frac{1}{2
ا ا ا	0.25-0.40	4 102	B ES	1xT+1xJ+1xV								Firm reddish brown slightly gravelly sandy SILT. Sand is fine to coarse, predominantly	0.40	/ _{//} · \\ / _/ / _/ · \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \
11/12/22 - 10:4	0.60 0.60 0.60-0.90	103 5 6	ES D B	1xT+1xJ+1xV								coarse. Gravel is subangular to subrounded fine to coarse of quartzite.	(1.10)	* · · · · · · · · · · · · · · · · · · ·
Email: ask@soils.co.uk. 11/12/22 - 10:41 IC9	1.00 1.00 1.00-1.20 1.20-1.65 1.20-1.65	104 7 8	ES D B SPT DSPT	1xT+1xJ+1xV N=15									- - - -	× · · · × · · · · · · · · · · · · · · ·
k, Email:	1.20-1.65	11	В									Firm reddish brown, mottled grey, slightly	1.50	× ×
.soils.co.u	1.60-1.80	12	В									gravelly sandy CLAY. Sand is fine to coarse, predominantly coarse. Gravel is angular to subangular fine of mudstone as	-	
/eb: www	1.80 - 2.00-2.45	13	D	120 blows					ne.)			lithorelics. GRADE IVa. (MERCIA MUDSTONE GROUP)	- (4.00)	
orkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk,	· 2.45-2.55	15	UT _(UT100)	89% recovery				+	Alr+Mist Red/Grey Mudstone.				(1.20)	
11977-552255, F	2.80	16	D									Extremely weak reddish brown fine grained MUDSTONE with rare greenish grey laminae and pockets of siltstone. GRADE	2.70	
WF10 1NJ. 1el: C	3.00-3.45 3.00-3.45 3.00-3.45	18 19	SPT DSPT B	N=30								IVb. (MERCIA MUDSTONE GROUP)	- - -	
	3.70	20	D										- - -	
Castlerord			, ,										(2.50)	
Poueries, Pouery Street, Castleford, West Y	4.00-4.41 4.00-4.41 4.00-4.45	22 23	SPT DSPT B	7,9/10,13,18,9 for 30mm									-	
Potteries	-													

п.															
The		Boring Pro	ogress and	Water Ob	servations		Chise	lling / Slo	w Progre	ess		Canarall	Damar	ما	
tleford:	Date	Time	Borehole	- 3	Borehole Diameter	Water	From	То	Dura (hh:	ation		General I	Remai	KS	
ast			Depth	Depth	(mm)	Depth			(1111.1	111111)	1 Position	cleared using C	AT and Gen	nv	
!	15/09/22	12:00	5.00	4.50	200	-						g inspection pit t		iiiy.	
Hice	20/09/22		10.70	None	N/R	9.80						nmer AR3104-20		4.00%)	used.
Ö	21/09/22		21.00	None	N/R	8.30							` '	,	
anc	21/09/22		30.00	None	N/R	25.90									
m m															
ž															
Solis											All dimone	sions in metres	Scale:	1:25	
ā								<u> </u>							_
ctu	Method		ction pit +	Plan	_,	ando 3000		Drilled			Logged	DNartey +	Checked		
2	l Used:	Cable Po	ercussion -	+ Use	d: Coma	cchio GEO	205	l Bv:	Jonny F	-lutt	l Bv:	DNevlon	Bv:		MGS

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Structural Soils Lid, Branch Office - Castleford: The Pottery Street, Castleford, West Yorkshire, WF10 1\overline{10}. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. | 11/12/22 - 10:41 | TC9 |



Contract Ref: Start: 15.09.22 Ground Level (m AOD): National Grid Co-ordinate: Sheet:	Contract:		Client:		Borehole:		
	EMG Pha	se 2		SEGRO		В	H20
765544	Contract Ref:	Start: 15.09.22 Groun	nd Level (m AOD):	National Grid Co-ordinate:	Sheet:		
765514 End: 15.09.22 76.51 E.446017.0 N.324670.5 2 of	765514	End: 15.09.22	76.91	E:446017.0 N:324870.9	2	of	16

Ī			Sample	s & Testing	N	Mecha	anical	Log	S.	siis	≣	ē		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	Log If (mm)	Flush	& Deta	Backfill	Water	Description of Strata	(Thick ness)	Graphic Legend
109	4.70	24	D										Extremely weak reddish brown fine grained MUDSTONE with rare greenish grey laminae and pockets of siltstone. GRADE IVb. (MERCIA MUDSTONE GROUP) (stratum copied from 2.70m from previous	-	
0:41	5.00-5.36		SPT	12,13/16,21,17 for 55mm						Į			sheet)	-	
11/12/22 - 1	5.00-5.36 5.20-6.00	26	DSPT	101 3311111	_	1	1	1	The second secon) (a) (Extremely weak reddish brown MUDSTONE with frequent beds of greenish grey siltstone. GRADE II.	5.20	
ask@soils.co.uk. '	5.48-5.65	28	С		69 	25	25		Air+Mist	red/Gley ividusit			Fractures: Extremely closely spaced, randomly orientated, planar, smooth, with frequent black and yellow stained. (MERCIA MUDSTONE GROUP) 5.20-5.45m: AZCL.	-	
soils.co.uk, Email:	6.00-7.50				*	*	X	NI	*	۵)			5.45-5.75m: NI.	(2.30)	
Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. 1el: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 10:41 TC9					100	9	9	20 150	Air+Mist	(Ped/Gley Midds(Ole)			6.55-6.72m: 60° planar smooth clean 6.70-7.10m: 9° undulating rough with black and yellow staining. GRADE II 6.90-7.00m: 60° planar smooth clean.	(2.30)	
977-55	7.25-7.40	29	С											-	
hire, WF10 1NJ. Tel: 019	7.50-9.00				*	*	X	X	*				Extremely weak to very weak indistinctly and very thinly bedded reddish brown MUDSTONE. With beds of thinly laminated greenish grey siltstone. Fracture Set 1: Randomly orientated, very closely spaced, planar and undulating,	7.50	
tery Street, Castleford, West Yorks	8.24	30	D		100	67	60	NI 30 70	Air+Mist (Dod/Croy, Mudston)	(Pedivides) Middeline			smooth and rough, with black and yellow staining. Fracture Set 2: 45°, closely spaced, planar, smooth, with black and yellow staining. (MERCIA MUDSTONE GROUP)	-	
Potteries, Pc					•								8.90-8.95m: Greenish grey siltstone.		

2		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	Progress		General I	Domor	ko	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)		Generali	Temai	KS	
,				•	,									
:														
i														
Ľ										All dimensi	ions in metres	Scale:	1:25	
	Method Used:					ando 3000 cchio GEC	I	Drilled By: Jo	nny Hutt	Logged By:	DNartey + DNeylon	Checked By:		AGS

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Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1N. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:41 | TC9 |



	Contract:					Clier	nt:				Boreho	le:		
		EMG Phas	se 2							SEGRO			В	H20
	Contract Ref:		Start:	15.09.22	Ground	d Lev	el (m A	AOD):	N	National Grid Co-ordinate:	Sheet:			
	765	514	End:	15.09.22		76	6.91			E:446017.0 N:324870.9		3	of	16
1		Camandaa 9 Taati		Maaba	مالممند									

			Sample	s & Testing	1	Mecha	anical	Log	σ σ		<u>_</u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfill	Water	Description of Strata	(Thick ness)	
est Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552289, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 10:41 TC9	9.00-10.50	31	С		100	47	47	NI 30 70	Air+Mist (Red/Grey Mudstone)		<u>\$</u>	Extremely weak to very weak indistinctly and very thinly bedded reddish brown MUDSTONE. With beds of thinly laminated greenish grey siltstone. Fracture Set 1: Randomly orientated, very closely spaced, planar and undulating, smooth and rough, with black and yellow staining. Fracture Set 2: 45°, closely spaced, planar, smooth, with black and yellow staining. (MERCIA MUDSTONE GROUP) (stratum copied from 7.50m from previous sheet) 9.36-9.42m: Medium strong 9.75-9.82m: (Firm) reddish brown clay with lithorelics of mudstone 9.82-9.92m: Greenish grey siltstone.	(3.90)	
w.soils.co.uk, Ema	10.50-12.00				+	 	*	-	*		₫	10.45-10.60m: (Soft) reddish brown silty clay with lithorelics of mudstone.	- - -	
977-552299, Web: ww	_ 11.00-11.20	32	С		77	77	77		Air+Mist (Red/Grey Mudstone)				- - - - 11.40	
\u00e4J. Tel: 01977-552\u00e555, Fax: 01	12.00-13.50				X	*	¥	À	(Red//			Extremely weak to weak reddish brown and greenish grey MUDSTONE with closely spaced very thin and thin beds of greenish grey SILTSTONE. GRADE II. Fractures: Randomly orientated, very closely spaced, planar and undulating, smooth, clean. (MERCIA MUDSTONE GROUP)	-	x x x x
tt, Častleford, West Yorkshire, WF10 1N	12.30	33	D		97	60	47	NI 50 170	Air+Mist (Red/Grey Mudstone)				- (2.85)	x x x x x x x x x x x x x x x x x x x
Potteries, Pottery Street, Castleford, W													- - -	x x x x x x

		Boring Pro	ogress and	Water Ob	servations		Chisel	ing / Slow F	Progress		General I	Domor	ko	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)		Generali	Remai	KS	
2														
										All dimens	ions in metres	Scale:	1:25	
	/lethod Jsed:	ed: Cable Percussion				ando 3000 cchio GEC	I	Drilled By: Jo	nny Hutt	Logged By:	DNartey + DNeylon	Checked By:		AGS
				Plan Used			I		nny Hutt	Logged	DNartey +	Checked	1:25	-

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BOREHOLE LOG

Contract:								Cli	ent:				Boreho	ole:	
		EMC	3 Phase	2								SEGRO			BH20
Contract Ref	ontract Ref: 765514			art: 1 5	5.09.	.22	Grou	ınd L	evel (m	AOD):		National Grid Co-ordinate:	Sheet:		
7	765514			id: 15	5.09.	.22		-	76.91			E:446017.0 N:324870.9		4	of 16
	Samples & T				Ме	echa	nical	Log	SI S	III	Ē			Depth	Material
Depth (m)	No	Туре	Results		CR S (%) (6CR ((%)	RQD (%)	If (mm)	Flush Returns & Details	Backfill	Water	Description of Strata		(Thick ness)	Graphic Legend
12 50 15 00							_ A			///		Extremely week to week reddish bro	wn and		

13.50-15.00 13.50-13.65 34 C Sextremely weak to weak reddish brown and greenish grey MUDSTONE with closely spaced very thin and thin beds of greenish grey SILTSTONE. GRADE II. Fractures: Randomly orientated, very closely spaced, planar and undulating, smooth, clean. (MERCIA MUDSTONE GROUP) (stratura copie drom 11.40m from previous sheet) Extremely weak reddish brown clayey MUDSTONE with abundant very closely spaced thinly beds of greenish grey siltstone. Fractures: Randomly orientated, extremely closely spaced thinly beds of greenish grey siltstone. Fractures: Randomly orientated, very closely spaced thinly beds of greenish grey siltstone. Fractures: Randomly orientated, extremely closely spaced thinly beds of greenish grey siltstone. Fractures: Randomly orientated, extremely closely spaced thinly beds of greenish grey siltstone. Fractures: Randomly orientated, extremely closely spaced thinly beds of greenish grey siltstone. Fractures: Randomly orientated, extremely closely spaced thinly beds of greenish grey siltstone. Fractures: Randomly orientated, extremely closely spaced thinly beds of greenish grey siltstone. Fractures: Randomly orientated, extremely closely spaced thinly beds of greenish grey siltstone. Fractures: Randomly orientated, extremely closely spaced, undulating, smooth, clean. (MERCIA MUDSTONE GROUP) [0.45] Signal And Signal	13.50-15.00 13.50-15.00 13.50-13.65 34 C A			Samples	s & resung	ı	viecna	anicai	Log] sign	I≣	ē		Depth	
13.50-13.65 34 C 15.00-16.50 15.89-16.05 35 C 15.89-16.05 35 C 16.50-18.00 17.00 18.89-16.05 35 C 18.89-16.05 36 C 18.89-16.05 37 C 18.89-16.05 37 C 18.89-16.05 37 C 18.89-16.05 37 C 18.89-16.05 38	greenish grey MUDSTONE with closely spaced, planar and undulating, smooth, clean. (MERCIA MUDSTONE GROUP) (stratum copied from 11.40m from previous sheet) 15.00-16.50 97 40 30 18	, ,	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Return & Det	Backfill	Water	Description of Strata		
15.00-16.50 15.00-16.50 15.00-16.50 15.00-16.50 15.00-16.50 16.50-18.00 16.50-18.00 16.50-18.00 17.00-16.50 18.00-16.50 19.00 10.00	15.00-16.50 15.00-16.50 16.50-18.00 16.50-18.00 17.00-16.50 18.00	13.50-15.00 13.50-13.65	34	С		97	40	30	50 170 	Air+Mist (Red/Grey Mudstone)			greenish grey MUDSTONE with closely spaced very thin and thin beds of greenish grey SILTSTONE. GRADE II. Fractures: Randomly orientated, very closely spaced, planar and undulating, smooth, clean. (MERCIA MUDSTONE GROUP) (stratum copied from 11.40m from previous sheet) Extremely weak reddish brown clayey MUDSTONE with abundant very closely spaced thinly beds of greenish grey siltstone. Fractures: Randomly orientated, extremely	(0.45)	× >
extremely closely spaced, planar, smooth, clean. 15.89-16.05 35 C 87 53 43 NI 10 10 10 10 10 10 10 1	extremely closely spaced, planar, smooth, clean. 15.89-16.05 35 C 16.50-18.00 16.50-18.00 16.50-18.00 17. Style of the content of the co	- 15.00-16.50				X	*	X		*			(MERCIA MUDSTONE GROUP) 14.50-14.65m: Clay with frequent lithoerlicts. Very weak reddish brown MUDSTONE with medium spaced thin beds of greenish grey SILTSTONE. Fracture Set 1: 0-15°, closely spaced, undulating, smooth, clean. GRADE I.	-	×××
16.50-18.00 V V V V Extremely weak reddish brown MUDSTONE. Frequent gravel size pockets and lenses (<15mm) of greenish grey siltstone. GRADE II.	16.50-18.00 Extremely weak reddish brown MUDSTONE. Frequent gravel size pockets and lenses (<15mm) of greenish grey siltstone. GRADE II. Bedding fractures: Closely spaced, rough, planar. Fractures Set 2: Very closely spaced, randomly orientated, smooth, planar. Fractures Set 2: Very closely spaced, randomly orientated, smooth, planar.	15.89-16.05	35	С		87	53	43	10	Air+Mist (Red/Grey Mudstone)			extremely closely spaced, planar, smooth, clean.	(1.80)	
	planar. Fractures Set 2: Very closely spaced, randomly orientated, smooth, planar. (MEDICA MUDSTONE CROUP)	16.50-18.00					*	X		X			Extremely weak reddish brown MUDSTONE. Frequent gravel size pockets and lenses (<15mm) of greenish grey siltstone. GRADE II.	16.50	

	Boring Pr	ogress and	Water Ob	servations		Chisell	ing / Slow F	Progress		General l	Domor	lko	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)		Generali	Remai	KS	
		Берит	(111111)	Берит				-					
								All dimensi	ons in metres	Scale:	1:25		
Method	opootion pit			t Da	ando 3000	+	Drilled		Logged	DNartey +	Checked		
Used:		ercussion ·	+ Used	d: Coma	cchio GEC	205	By: J o	nny Hutt	By:	DNeylon	By:		AGS
L	Rota	rv Cored											1000

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10.1NJ. Tel: 01977-552255, Fax: 01977-552299, i



BOREHOLE LOG

•														
Contract:							Cli	ient:				Boreho	le:	
		EMC	3 Pha	se 2							SEGRO			BH20
Contract Ref	:			Start:	15.09.2	22 Gro	und L	evel (m	AOD):		National Grid Co-ordinate:	Sheet:		
7	65	514		End:	15.09.2	22	•	76.91			E:446017.0 N:324870.9		5	of 16
		Sample	s & Test	ting	Me	echanica	Log	S	Kfill	Į.			Depth	Material
Depth (m)	No	Туре	Res	sults	TCR S	CR RQE) If	lush Returns Details	Back	Water	Description of Strata		(Thick ness)	Graphic Legend

			Samples	& Testing	1	Mecha	anica	Log	s <u>s</u>		<u>_</u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQE (%)	lf (mm)	Flush Returns & Details	Backfill	Water	Description of Strata	(Thick ness)	Graphic Legend
est Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 10:41 TC9	18.00-19.50 - - - - - 18.90-19.10 -		С		97	43	20		Air+Mist (Red/Grey Mudstone)			Extremely weak reddish brown MUDSTONE. Frequent gravel size pockets and lenses (<15mm) of greenish grey siltstone. GRADE II. Bedding fractures: Closely spaced, rough, planar. Fractures Set 2: Very closely spaced, randomly orientated, smooth, planar. (MERCIA MUDSTONE GROUP) (stratum copied from 16.50m from previous sheet)18.00-18.15m: Weak to medium strong greenish grey SANDSTONE with fine to medium sand size vugs.	-(3.25)	
s.co.uk, Email:	- 19.50-21.00 -				+	*	X		Mist Mudstone)				19.75	
01977-552299, Web: www.soil	- - - -				97	65	27		Air+Mist (Red/Grey Mud			Weak greenish grey fine to medium grained SANDSTONE with frequent medium to coarse sand size vugs. Interspaced with thin laminae of siltstone. Bedding fractures: Closely spaced, rough, undulating. (MERCIA MUDSTONE GROUP) 19.80m to 19.85m: Siltstone. 20.20-20.40m: Sandstone is a	(0.70)	
255, Fax: (- 20.45 - 20.70 -	38	С									interspersed with reddish brown clay with mudstone lithorelics. Weak reddish brown MUDSTONE.	- (0.35)	
NJ. Tel: 01977-552	- - - 21.00-22.50				 	X	X					GRADE II. (MERCIA MUDSTONE GROUP) 20.70-20.80m: Very closely spaced randomly orientated fractures and recovered as gravel of mudstone.	20.80	
t Yorkshire, WF10 1,	-								st tone)			Weak to medium strong greenish grey fine to medium grained SANDSTONE. (MERCIA MUDSTONE GROUP) 21.00-21.45m: AZCL.	(0.90)	
rd, West	21.60-21.95	39	С		70	53	33		υ. <u>υ</u> . υ			Very weak greenish grey SILTSTONE.	21.70	× × × × × × × × × × × × × × ×
astlefo	-								Air+M (Red Mud			(MERCIA MUDSTONE GROUP)	(0.30)	× × × × × × × × × × × × × × × × × × ×
Street, C	-											Description on next sheet	-	X X X X
ottery S	-												_	
Potteries, Pottery Street, Castleford, W	-											22.35-22.50m: Siltstone.	_	× × × × × × × × × × × × × × × × × × ×
, ,						-								

		Boring Pro	ogress and	Water Ob	servations		Chisel	ing / Slow I	Progress		General I	Domor	iko	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)		Generali	Remai	KS	
;			Ворит	Ворит	(11111)	Ворит								
		·												
										All dimens	ions in metres	Scale:	1:25	
) [Method Used:	Cable Po	tion pit + ercussion -	Plan Used		ando 3000 cchio GEO	I	Drilled By: J o	onny Hutt	Logged By:	DNartey + DNeylon	Checked By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web



BOREHOLE LOG

Contract:				(Client:				Boreho	ole:		
	EMG Pha	se 2						SEGRO			Bŀ	120
Contract Ref:		Start:	15.09.22	Ground	Level (m /	AOD):		National Grid Co-ordinate:	Sheet:			
76	65514	End:	15.09.22		76.91			E:446017.0 N:324870.9		6	of	16
	Samples & Test	ting	Mecha	nical Lo	g		L			Denth	Ms	aterial

		Campico	& Lesting		Mecha	incai	LUG	ુ≋	≣	ē		Depth	Material
Depth (m)		Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfill	Water	Description of Strata	(Thick ness)	Graphic Legend
_ 22.50-24.00 - - - - - - 23.25-23.40 - -		С		100	40	0		Air+Mist (Red Mudstone)			Extremely weak reddish brown MUDSTONE with occasional gravel size pockets of greenish grey siltstone. Medium interbedded with extremely weak to very weak greenish grey SILTSTONE. GRADE II. Bedding fractures: Medium spaced, rough, undulating, infilled with red sandy clay. (MERCIA MUDSTONE GROUP) (stratum copied from 22.00m from previous sheet) 22.70-22.95m: Siltstone. 23.70-23.95m: Extremely weak siltstone verging towards silt.	[(2.95)	× × × × × × × × × × × × × × × × × × ×
_ _ 24.00-25.50 -					*	*		*			24.10-24.25m: Siltstone.	-	× × × × × × × × × × × × × × × × × ×
- - 24.35 - 24.55 - -	41	С						st stone)				-	X X X X X X X X X X X X X X X X X X X
-				100	69	21		Air+Mist (Red Mudstone)			Extremely weak reddish brown fine grained SANDSTONE. Fractures: Closely spaced, randomly orientated, smooth, undulating. (MERCIA MUDSTONE GROUP)	24.95	× × × × × × × × × × × × × × × × × × ×
_ 25.50-27.00 - - - - -								ist stone)				26.10	
- - - - 26.65-26.90	42	С		97	93	83		Air+Mist (Red Mudsto			Extremely weak reddish brown MUDSTONE very thinly interbedded with extremely weak greenish grey SILTSTONE. GRADE II 26.25m: Sandstone.	(0.80)	x x x x x x x x x x x x x x x x x x x
		1							///			26.90	

	Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow	Progress	General	Domorl	l/O	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	NS	
				, ,								
									All dimensions in metres	Scale:	1:25	
Method Used:	Cable Po	tion pit +	Plan Used		ando 3000 cchio GEC	I	Drilled By: J	onny Hutt	Logged DNartey + By: DNeylon	Checked By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT GPJ - v10_01. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552256. Fax: 01977-552299 v

Rotary Cored



Contract:				Cli	ent:				Boreho	le:	
	EMO	G Phase 2						SEGRO			BH20
Contract Ref	:	Start:	15.09.22	Ground Lo	evel (m	AOD):		National Grid Co-ordinate:	Sheet:		
7	65514	End:	15.09.22	-	76.91			E:446017.0 N:324870.9		7	of 16
Depth	Sample	s & Testing	Mecha	anical Log	sh urns etails	skfiii	ater	Description of Strata		Depth (Thick	Material Graphic

			Samples	s & Testing	ı	Mech	anical	Log	ا ه	2	<u>_</u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfill	Water	Description of Strata	(Thick ness)	Graphic Legend
TC9	27.00-28.50 - - -				A				A	///. ///. ///. ///.		Medium strong greenish grey thinly to thickly laminated SANDSTONE. (MERCIA MUDSTONE GROUP) (stratum copied from 26.90m from previous sheet) Extremely weak reddish brown	27.10	
. 11/12/22 - 10:41	- - - - 27.85-28.15	43	С		100	87	30		Air+Mist Red Mudstone)			MUDSTONE with abundant fine to medium gravel size pockets of greenish grey siltstone. GRADE II. (MERCIA MUDSTONE GROUP) 27.10-27.40m: 70°, smooth, planar fracture.	- - - 27.85 -	
nail: ask@soils.co.uk	- - -											Weak reddish brown fine grained SANDSTONE with occasional fine to medium gravel size pockets of greenish grey siltstone. (MERCIA MUDSTONE GROUP)	- - -	
est Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 10:41 TC9	28.50-30.00 - - - -								Air+Mist Red Mudstone)			28.80m: Bedding fracture is infilled with subangular gravel of reddish mudstone.	(1.45)	
552	-				87	50	28		Air+Mist d Mudsto	1///		29.20-29.50m: Thinly cross laminated.	29.30	
1977-552 <u>2</u> 55, Fax: 01977.	_ _ 29.40-29.60 - -	44	С						Air (Red N			Extremely weak reddish brown fine grained SANDSTONE. (MERCIA MUDSTONE GROUP)	- - (0.70) -	
el: 0.	_				_\	V	₩		V	1//		\ 29.95m: Greenish grey siltstone.	30.00	
itteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. T	-											Borehole terminated at 30.00m depth.	- - - - - - - -	

2		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	rogress	General	Domorl		
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remair		
- 20				•	,								
)													
, c.													
)										All dimensions in metres	Scale:	1:25	
טון מסומי מי	Method Used:	Cable Pe	tion pit + ercussion -	Plan Used		ando 3000 · cchio GEC		Drilled By: Jo	nny Hutt	Logged DNartey + By: DNeylon	Checked By:	1.20	AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1N. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:41 | TC9 |

BOREHOLE LOG

Contract Ref: Start: 14.09.22 Ground Level (m AOD): National Grid Co-ordinate: Sheet:	Contract:		Client:		Borehole):		
	EMG Pha	se 2		SEGRO			Bł	H21
765514	Contract Ref:	Start: 14.09.22 Grou	nd Level (m AOD):	National Grid Co-ordinate:	Sheet:			
703514 End: 16.09.22 75.30 E.443504.3 N.324044.5 I 0	765514	End: 16.09.22	75.56	E:445964.3 N:324644.9		1	of	16

			Sample	s & Testing	N	Mecha	nical	Log	∞ ₁.ౖ	<u> </u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instru- mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
	0.10 0.10-0.30	1 2	D B								TOPSOIL	(0.30)	17.31.17.31.17
_	- 0.20	101	ES	1xT+1xJ+1xV							Stiff orangish brown, mottled grey, slightly gravelly	0.00	<u>xox</u>
2 - 10:41 TC9	0.40 0.40 - 0.40-0.60	102 3 4	ES D B	1xT+1xJ+1xV							silty CLAY. Gravel is subangular to subrounded fine to coarse extremely weak mudstone and siltstone lithorelics and occasional sandstone. GRADE IVa.	(0.50)	x x x
ς. 11/12/2;	0.80 0.80-1.20	5 6	D B								(MERCIA MUDSTONE GROUP) Stiff to very stiff reddish brown slightly gravelly silty CLAY. Sand is predominantly coarse. Gravel is	0.80	XO
co.uk	1.00	103	ES	1xT+1xJ+1xV							subangular fine to coarse of extremely weak mudstone and siltstone lithorelics and occasional		× _ ×
est Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22	1.20-1.65 1.20-1.65 1.20-1.65	8 9	SPT DSPT B	N=14							sandstone. GRADE IVa. (MERCIA MUDSTONE GROUP)	-	x _ x _ xo _ xo _ xo _ xo
.co.uk, Emai	-	3										- -	x _ x x _ s x x
: www.soils	1.70	10	D									_	XO
52299, Web	2.00-2.40	11	UT _(UT100)	150 blows 88% recovery								-	xx _ x _ x
ax: 01977-5	2.40-2.50	12	D									-	x _ x
77-552255, F	- 2.70 -	13	D									(3.70)	XO
4J. Tel: 0197	3.00-3.40		SPT	5,10/10,13,18,9 for 20mm							below 3.00m: becoming very stiff.	- -	x - x
ire, WF10 1N	- 3.00-3.40 - 3.00-3.45	15 16	DSPT B	IOI ZOITIITI								- -	~ × _ ×
West Yorksh	-											-	
Potteries, Pottery Street, Castleford, W	3.70	17	D									-	X X
reet, (4.00-4.37		SPT	6,8/13,20,17								-	
ery St	- 4.00-4.37	19	DSPT	for 65mm								-	
ies, Potte	-											4.50	xx x x
otte								L			L	4.30	

п.													
The		Boring Pro	ogress and	Water Ob	servations		Chise	lling / Slow F	rogress	Canaral	Damarla		
stletord:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remark	S	
ast			Depth	Depth	(mm)	Depth			(1111.111111)	1. Position cleared using C	AT and Cenn	N/	
ပ	13/09/22	16:44	1.90	1.90	200	Dry				2. Hand dug inspection pit		ıy.	
<u>ice</u>	14/09/22	07:46	1.90	1.90	200	Dry				3. SPT hammer AR3104-2		00%) u	sed.
בַ	20/09/22		10.30	None	N/R	3.00						,	
anc	16/09/22		4.50	4.50	200	Dry							
B	16/09/22		30.00	4.50	114	26.00							
ξ													
olls													
Σ M										All dimensions in metres	Scale: 1	1:25	
ğ	Method	Inspec	ction pit +	Plan	t D a	ando 3000	+	Drilled Jon	ny Hutt +	Logged JAIton +	Checked		
Ĭ	Used:	Cable Po	ercussion -	+ Used	d: Coma	cchio GEO	205	Bv:	Luke	Bv: RSenior	Bv:		MAS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Soils Lid, Branch Office - Castleford: The Pottery Street, Castleford, West Yorkshire, WF10 1\overline{10}. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. | 11/12/22 - 10:41 | TC9 |



Contract:					Client:		Boreho	ole:		
	EMG Pha	se 2				SEGRO			Bŀ	121
Contract Ref		Start:	14.09.22	Ground	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
7	65514	End:	16.09.22		75.56	E:445964.3 N:324644.9		2	of	16
	Samples & Test	ting	Mecha	nical Lo	og ∞ , 5 _			Denth	Ma	

			Sample	s & Lesting		Mecha			│≝ Ÿը│ ™		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm	Backfill Instru- mentatic	Description of Strata	(Thick ness)	Graphic Legend
0:41 TC9	4.50-6.00					A	•	N		AZCL. (MERCIA MUDSTONE GROUP)	_	AZCL
est Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 10:41 TC9	5.60	23	D		53	9	9	*		Extremely weak to very weak very thinly to thinly bedded reddish brown MUDSTONE. GRADE II. Bedding fractures: Very closely to closely spaced, 0° to 10°, undulating, smooth and rough, clean, with rare black specks. (MERCIA MUDSTONE GROUP)	5.20	
oils.co.uk, Ema	6.00-7.50				*	X	*			6.00-6.15m: AZCL.	- - -	
: 01977-5522 <u>9</u> 9, Web: www.s	- - - - -				83	22	0			6.30-6.50m: Stiff reddish brown silty clay with occasional subangular fine to coarse gravel size mudstone lithorelicts.	- - - -	
1NJ. Tel: 01977-552255, Fax	7.50-9.00	24	D		X	*	X	NI 60 170		7.02m: thin laminae (5mm) of weak light greenish grey siltstone 7.12-7.38m: With frequent thick laminae and very thin beds of very weak light greenish grey siltstone 7.34-7.36m: 45° undulating rough discontinuity with frequent black specks 7.34-7.62m: 85° undulating rough locally orangish brown stained discontinuity with frequent	-	
	- - 8.00 - -	25	D		99	33	7			black specks. 7.94-8.00m: 40° undulating rough black stained discontinuity.	[(5.97)	
teries, Pottery Street, Castleford, W	- - -									undulating smooth black stained discontinuities. 8.60-9.00m: 80° to 90° undulating smooth rough black stained discontinuity.	- - - -	

		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	rogress	General	Domor	lc0	
a serial of a	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	NS	
3 -													
ž													
2										All dimensions in metres	Scale:	1:25	
	Method Inspection pit + Used: Dando 30 Used: Cable Percussion + Used: Comacchio Comacc							Ву:	ny Hutt + Luke	Logged JAlton + By: RSenior	Checked By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT GPJ - v10_01. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552256. Fax: 01977-552299 v



BOREHOLE LOG

Contract:				Client:		Borehol	e:		
EMG Pha	se 2				SEGRO			В	H21
Contract Ref:	Start:	14.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	16.09.22		75.56	E:445964.3 N:324644.9		3	of	16
								_	

			Sample	s & Testing	N	/lecha	anical	Log	∞ ' iº			Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	lf (mm	Backfill & Instrumentation	Water	Description of Strata	(Thick ness)	Graphic Legend
. 11/12/22 - 10:41 TC9	9.00-10.50 9.00-9.27	26	С		97	61	43				Extremely weak to very weak very thinly to thinly bedded reddish brown MUDSTONE. GRADE II. Bedding fractures: Very closely to closely spaced, 0° to 10°, undulating, smooth and rough, clean, with rare black specks. (MERCIA MUDSTONE GROUP) (stratum copied from 5.20m from previous sheet) 9.27m: Thick laminae (15mm)of very weak light greenish grey siltstone 9.69-9.78m: 50° undulating rough black stained discontinuity.	-	
ask@soils.co.uk.	- - -							NI 60 170			10.00-10.20m: 85° to 90° undulating rough black stained discontinuity 10.13-10.320m: 50° undulating rough discontinuity with frequent black specks.	- - -	
ils.co.uk, Email:	10.50-12.00				*	*	X	-			randomly orientated undulating smooth and rough discontinuities with occasional black specks 10.50-10.55m: Moderately weak light grey siltstone.	- - -	
-5522 <u>9</u> 9, Web: www.sc	- - - _ 11.02-11.17 - -	27	С		95	80	69				10.72-10.80m: 50° undulating smooth discontinuity with <1mm clay on surfaces 10.72-10.89m: Discontinuities are closely to very closely spaced randomly orientated undulating smooth and rough clean locally stained black 10.89-11.00m: Thinly and thickly laminated.	- - - - 11.17	
77-552 <u>2</u> 55, Fax: 01977	- - - 11.56-11.76 - -	28	С								Very weak thinly to medium bedded reddish brown MUDSTONE. GRADE II. Bedding fractures: Very closely to medium spaced, 0°, undulating, smooth, clean, locally with a little clay smear on surfaces. (MERCIA MUDSTONE GROUP) 11.29-11.35m: Coarse gravel size siltstone	- - -	
1NJ. Tel: 0197	_ 12.00-13.50				X	*	X	NI 60 200			inclusion. 11.38-11.42m: Extremely weak light greenish grey siltstone. 12.00-12.20m: AZCL.	[(1.48) - -	
organistics, Potery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 10:41 TC9	-				87	47	17	ZI ZI 90			12.20-12.30m: Thickly laminated12.30-12.50m: Drilling disturbed, recovered as clayey gravel12.50-12.65m: Thickly laminated. Stiff thinly and thickly laminated silty CLAY with frequent angular to subangular fine to medium gravel size lithorelics. GRADE III. (MERCIA MUDSTONE GROUP)12.70-12.72m: Thick laminae of stiff light greenish grey silt. 12.86-13.07m: Thinly laminated to very thickly	12.65	
otteries, Potter	13.28-13.42 -	29	С			•		NI 60 170			bedded stiff to very stiff light greenish grey clay 13.08-13.15m: Thin bed of moderately weak light greenish grey siltstone.	-	

2		Boring Pro	ogress and	Water C	bservations		Chisell	ing / Slow F	Progress		Seneral I	Domor	l/o	
	Date	Time	Borehole		Diameter	Water	From	То	Duration (hh:mm)		beneral i	Remai	KS	
Š			Depth	Depth	(mm)	Depth			(_				
3														
5														
2														
5														
į														
2														
5										All dimensio	ns in metres	Scale:	1:25	
;	Method								ny Hutt +	_ 00	JAlton +	Checked		
3	Used:	Cable Pe	ercussion -	+ Us	ed: Com a	cchio GEC	205	By:	Luke	By:	RSenior	By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01. Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552256, Fax: 01977-552299, v



Contract:					Client:			Borehol	e:		
	EMG Pha	se 2					SEGRO			В	H21
Contract Ref	:	Start:	14.09.22	Ground	Level (m AO	D):	National Grid Co-ordinate:	Sheet:			
7	65514	End:	16.09.22		75.56		E:445964.3 N:324644.9		4	of	16
	Camarilas 9 Tast		N4	مالممند				1			

			Sample	s & Testing	1	∕lecha	anica	l Log	∞ + 5	-		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQE (%)	l Log If (mm	Backfill Instrumentat	Water	Description of Strata	(Thick ness)	Graphic Legend
est Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 10:42 TC9	13.50-15.00				100	75	38	NI 60 170			Very weak to weak very thinly to thinly bedded reddish brown MUDSTONE. GRADE II. Bedding fractures: Very closely to closely spaced, 0° to 10°, undulating, rough, black stained locally orangish brown stained. (MERCIA MUDSTONE GROUP) (stratum copied from 13.15m from previous sheet) 13.55-13.65m: 85° undulating rough orangish brown stained discontinuity 14.04-14.07m: Moderately weak light grey siltstone 14.16-14.17m: Incipient fractures very closely to closely spaced randomly orientated rough clean 14.16-14.24m: 45° undulating rough black and orangish brown stained discontinuity 14.34-14.35m: Weak light greenish grey siltstone 14.39-14.40m: Weak light greenish grey	(2.68)	
.co.uk, Email	15.00-16.50					*	*	-			siltstone. 14.55-14.70m: Extremely closely to very closely spaced randomly orientated undulating rough clean locally orangish brown stained	-	
: 01977-552299, Web: www.soils	15.24-15.42	31	С		93	43	28	NI.			discontinuities 15.12-15.16m: Moderately weak light greenish grey siltstone 15.40-15.45m: 90° undulating rough discontinuity with rare black specks 15.58-15.67m: 85° to 90° undulating rough black stained discontinuity 15.66-15.72m: 35° undulating rough black stained discontinuity.	15.83	<i>y</i> x
JJ. Tel: 01977-552255, Fax	16.50-18.00				X	- X -	X	NI 30			Stiff thinly and thickly laminated silty CLAY with occasional subangular fine to medium gravel size lithorelics of mudstone. Occasional thin laminea of very weak light grey siltstone. GRADE III. (MERCIA MUDSTONE GROUP) Very weak very thinly to thinly bedded reddish brown MUDSTONE. GRADE II. Bedding fractures: 0° to 15°, very closely to	- 16.13	XX
Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1N	17.00	32	D		97	31	13	NI 50 100			closely spaced, undulating, rough, clean, occasional black staining. (MERCIA MUDSTONE GROUP) 16.15-16.19m: Moderately weak light grey siltstone with occasional vugs (<2mm). 16.30-16.38m: Moderately weak light grey siltstone with frequent vugs (<2mm). 16.50-16.70m: Drilling disturbed, NI / recovered as gravel. 16.81-16.82m: Very weak light greenish grey siltstone. 16.83-17.05m: 85°-90° undulating rough black stained discontinuity. 17.05-17.35m: Extremely close to very closely	(2.94)	
otteries, Potte											spaced randomly orientated clean and black stained discontinuities. Description on next sheet		

		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	rogress	_	eneral l	Domor	ko	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter	Water Depth	From	То	Duration (hh:mm)	G	enerari	Temai	KS .	
;			Берит	Берит	(mm)	Берит			` '					
٠														
										All dimension	ns in metres	Scale:	1:25	
	Method	Inspec	tion pit +	Plan	t Da	ando 3000	+	Drilled Jon	ny Hutt +	Logged J	IAlton +	Checked		
	Used:		ercussion -	+ Used	d: Coma	cchio GEC		By:	Luke	By: F	RSenior	Ву:		AGS
	Method Used:	Cable Po						•		Logged J	IAlton +	Checked	1:25	ļ

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552256, Fax: 01977-552299, v



Contract:				Client:		Boreho	lo:	
Contract.		_		Cilett.		Boreiro	ile.	
	EMO	3 Phase 2			SEGRO			BH21
Contract Re	ef:	Start:	14.09.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:		
•	765514	End:	16.09.22	75.56	E:445964.3 N:324644.9		5	of 16
	Sample	s & Testing	Mecha	anical Log			Depth	Material
Depth (m)	Depth No Type Res		TCR SCR		Description of Strata		(Thick	Graphic

			Sample	s & Testing	1	Mecha	anical	Log	∞ 구 둳	<u>_</u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQE (%)	l Log If (mm)	Backfil Instru mentat	Water	Description of Strata	(Thick ness)	Graphic Legend
soils.co.uk. 11/12/22 - 10:42 TC9	18.00-19.50 - - - - - - -				93	23	8	NI 50 100			17.13-17.38m: 75°-85° undulating smooth and rough clean locally black stained discontinuity 17.39-17.50m: 50° undulating rough discontinuity with 1-2mm soft clay on surfaces 17.50-17.78m: 60° undulating smooth lightly black stained discontinuity 17.75-17.78m: 60° undulating smooth lightly lack stained discontinuity 17.80-17.93m: Extremely closely to very closely spaced randomly orientated undulating smooth clean locally black stained discontinuities 17.85-18.00m: 65° undulating smooth clean discontinuity. Very weak very thinly to thinly bedded reddish brown MUDSTONE. GRADE II.		
ail: ask@s	- 19.25 - 19.37 -	33	С					X			Bedding fractures: 0° to 15°, very closely to closely spaced, undulating, rough, clean, occasional black staining.	_	
s.co.uk, Em	19.50-21.00 -				*	*	*	_			(MERCIA MUDSTONE GROUP) (stratum copied from 16.13m from previous sheet) 18.00-18.20m: Drilling disturbed. Recovered NI as subangular coarse gravel and cobble size	-	
977-5522 <u>9</u> 9, Web: www.soils	_ _ 19.82-20.05 _ - - -	34	С		100	60	53				fragments 18.20-18.30m: 45° undulating smooth black stained discontinuity 18.30-18.55m: Extremely closely to very closely spaced undulating smooth and roughly lean locally lightly black stained discontinuities 18.40-18.46m: 75° undulating smooth clean locally lightly black stained discontinuity 18.43-18.47m: 30° undulating smooth	- -(1.93) - -	
. 01977-552255, Fax: 01	- - - -							NI 120 300			discontinuity with <1mm clay smear on surfaces and locally stained black 18.60-18.90m: 70° undulating smooth clean locally light black stained discontinuity 19.06-19.10m: 20° planar smooth lightly black stained discontinuities.	21.00	
n Fijversion: vo of Log Common E.Co Afri 1 7053 H. EAST MILLAND AND CN 1.5F3 - VIU. 01. Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk, 11/12/22 - 10:42 TC9	21.00-22.50 - - - - - -				95	73	43				Weak to moderately weak very thinly to thiny bedded reddish brown MUDSTONE. GRADE II. Bedding fractures: Very closely to closely spaced, undulating, smooth and rough, clean, locally black stained and locally with <1mm silt on surfaces. (MERCIA MUDSTONE GROUP) 19.07-19.20m: 75°-90° curved undulating rough black stained discontinuity. 19.25-19.42m: Moderately weak light greenish grey siltstone. 19.50-19.77m: Occasional fine to medium gravel size inclusions of siltstone. 19.82-19.97m: 85°-90° undulating smooth and rough clean and locally with frequent black		X X X X X X X X X X X X X X X X X X X
offeries, Pottery Street,	- - 22.15-22.45 - -	35	С								specks 20.19-20.23m: Thinly interlaminated stiff reddish brown clay and very weak light greenish grey siltstone 20.23-20.27m: Moderately weak light greenish grey siltstone.	- - -	

	Boring Pr	ogress and	Water	Observa	tions		Chiselli	ing / Slow F	rogress	Copora	l Remar	ko	
Date	Time	Borehole Depth	Casin Depth	l Diam ו	neter	Water Depth	From	То	Duration (hh:mm)	Genera	ii Kemai	KS	
										All dimensions in metro	es Scale:	1:25	
Method Used:								Drilled Jon Bv:	ny Hutt + Luke	Logged JAlton + Bv: RSenior	Checked By:		AGS

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BOREHOLE LOG

Contract:					Client:			Boreho	le:		
	EMG Pha	se 2					SEGRO			В	H21
Contract Ref	: -	Start:	14.09.22	Ground	d Level (m AO	D):	National Grid Co-ordinate:	Sheet:			
7	'65514	End:	16.09.22		75.56		E:445964.3 N:324644.9		6	of	16
	Samples & Tost	ina	Macha	nicol I c	20 0X E		<u> </u>			T	

		Samples	s & Testing			anical		≅ - Ei	<u></u>		Depth	Material
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	lf (mm)	Backfill & Instru- mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
22.50-24.0		С		97	32	19	NI 120 300			20.27-20.45m: 50°-70° undulating smooth and rough clean locally black stained discontinuity 20.38-20.40m: 50° undulating smooth black stained discontinuity 20.70-20.82m: Extremely closely to very closely spaced randomly orientated undulating rough and smooth clean locally lightly black stained discontinuities 21.62-21.63m: Stiff reddish brown clay 21.77-22.00m: Stiff thinly bedded reddish brown mudstone locally trending to extremely weak mudstone. Medium strong to strong thinly to medium bedded light greenish grey SILTSTONE with occasional diameter vugs (<2mm). GRADE II. Bedding fractures: 0° to 10°, undulating, rough, clean, locally orange stained. (MERCIA MUDSTONE GROUP)	22.80	X X X X X X X X X X X X X X X X X X X
24.00-25.5		С		97	36	25	NI NI 220			(stratum copied from 21.00m from previous sheet) Extremely weak very thinly to medium bedded reddish brown silty MUDSTONE. GRADE II. Bedding fractures: Very closely to medium spaced, 0° to 15°, undulating, rough, clean, locally with <1mm clay or silt on surfaces. (MERCIA MUDSTONE GROUP) 22.93-23.20m: Extremely closely spaced very thin beds of very stiff light greenish grey silt 23.45-23.75m: Occasional fine to coarse gravel size inclusions of extremely weak light greenish grey siltstone 23.75-23.79m: 25° undulating rough discontinuity with <1mm silt on surfaces 23.75-23.84m: Weak light greenish grey siltstone 23.80-23.84m: 40° undulating rough clean [(2.42)	
23.52-23.74 24.00-25.5 25.12-25.5 25.50-27.0 25.55-25.7		С		97	77	69	NI 150 380		<u>‡</u>	discontinuity 24.09-24.15m: Firm reddish brown silty clay 24.09-24.15m: Firm reddish brown silty clay 24.25-24.30m: Firm reddish brown silty clay 24.30-24.58m: Thinly interbedded extremely weak light greenish grey siltstone with stiff reddish brown silty clay 24.88-25.22m: Extremely weak thickly laminated to very thinly bedded light greenish grey siltstone. Extremely weak to very weak thinly to medium bedded reddish brown, mottled light greenish grey, silty MUDSTONE. GRADE II. Bedding fractures: Closely to medium spaced, 0° to 10°, undulating, rough, stained, orangish brown, locally with <1mm silt on surfaces. (MERCIA MUDSTONE GROUP) 25.50-25.55m: Thickly interlaminated to very thinly interbedded very weak greenish grey siltstone and extremely weak reddish brown mudstone. Description on next sheet		

		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	rogress	General	Domor	lc0	
a selection of	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	NS	
3 -													
ž													
2										All dimensions in metres	Scale:	1:25	
	Method Used:	Cable Pe	tion pit + ercussion -	Plan Used		ando 3000 cchio GEC		Ву:	ny Hutt + Luke	Logged JAlton + By: RSenior	Checked By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1N. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:42 | TC9 |

BOREHOLE LOG

Contract:					Client:			Boreho	e:		
	EMG Pha	se 2					SEGRO			В	H21
Contract Ref		Start:	14.09.22	Ground	d Level (m AO	D):	National Grid Co-ordinate:	Sheet:			
7	65514	End:	16.09.22		75.56		E:445964.3 N:324644.9		7	of	16
	OI 0 T									$\overline{}$	

			Samples	s & Testing	ľ	Mecha	anical	Log	∞ ' ië	<u></u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instru- mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 10:42 TC9		39	Type C	Results	97	80 80	60 60	NI 150 380		Wat	Description of Strata 25.93-25.97m: 25° undulating smooth lightly black stained discontinuity 26.02-26.15m: 80°-90° undulating rough clean discontinuity 26.40-26.50m: Weak light greenish grey siltstone with 85° undulating rough clean locally orangish brown stained discontinuity 26.65-26.68m: 15° undulating rough black stained discontinuity. Extremely weak to very weak thinly to medium bedded reddish brown, mottled light greenish grey, silty MUDSTONE. GRADE II. Bedding fractures: Closely to medium spaced, 0° to 10°, undulating, rough, stained, orangish brown, locally with <1mm silt on surfaces. (MERCIA MUDSTONE GROUP) (stratum copied from 25.22m from previous sheet) 27.10-27.12m: Weak light grey siltstone 27.30-27.34m: 2 no very thin bands of weak light grey siltstone 27.48-27.60m: 85°-90° undulating rough discontinuity with light orangish brown staining over lower 30mm 28.13-28.33m: 60°-90° curved undulating rough clean discontinuity 28.69-28.79m: Very weak light greenish grey	· .	
itteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. 11/12/22 - 10:42 TC9					97	69	57	•			siltstone 28.97-29.00m: 0°-25°undulating smooth clean discontinuity locally with <1mm silt on surfaces 29.35-29.43m: Extremely weak to very weak light greenish grey siltstone 29.37-29.45m: 40° undulating rough discontinuity with 1-2mm of firm clay on surfaces 29.60-29.77m: Very stiff reddish brown silty clay 29.80-30.00m: 70° undulating rough clean discontinuity. Borehole terminated at 30.00m depth.	30.00	

	Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	Progress	General	Domorl	10	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	15	
		,	•	,								
,												
									All dimensions in metres	Scale:	1:25	
Method Used:					ndo 3000 cchio GEC	I	Ву:	ny Hutt + Luke	Logged JAlton + By: RSenior	Checked By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1N. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:42 | TC9 |

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BOREHOLE LOG

Contract:				Client:		Borehol	e:		
EMG Pha	se 2				SEGRO			В	H22
Contract Ref:	Start:	13.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	15.09.22		73.80	E:446085.7 N:324639.6		1	of	12

	-	00.	• • •	Liiu.	10.0				0.00			-	<u> </u>
			Sample	s & Testing	ı	Mecha	anical	Log	■	p.		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill	Water	Description of Strata	(Thick ness)	Graphic Legend
60	0.20 0.20-0.50	1 2	D B								TOPSOIL Firm dark brown slightly gravelly sandy SILT. Sand is fine to coarse, predominantly coarse. Gravel is	0.30)	× × × × × × × × × × × × × × × × × × ×
75 - 10:42	0.50	101 102	ES ES	1xT+1xJ+1xV 1xT+1xJ+1xV							subangular to subrounded fine to coarse of sandstone, mudstone and occasional quartzite. Stiff orangish brown, mottled grey, sandy gravelly silty CLAY. Sand is fine to coarse, predominantly	- 0.55 - -	x . x . x . x . x . x . x . x .
EIIIaii. ask@soiis.co.uk. 11/12/22 - 10.42 109	0.80 0.80-1.20 -	3 4	D B								coarse. Gravel is subangular to subrounded fine to coarse of extremely weak mudstone, siltstone and occasionally sandstone, lithorelics. GRADE IVa. (MERCIA MUDSTONE GROUP) Below 1.00m: Reddish brown	- - -	
	1.20-1.65	5	UT _(UT100)	150 blows 67% recovery								- - -	× · · ×
D. WWW.SUIS.CO.L	- - 1.65-1.75 ₋ 1.70	6 7	D D									-	x
, rak. 01977-55229, we	2.00-2.45 - 2.00-2.45 - 2.00-2.45 	10 9	SPT B DSPT	N=22								(3.45)	*
01911-00220	2.70	11	D									-	× - × - × - × - × - × - × - × - × - × -
.t TOTASTILIS, WE TO THAT THE OTER 1-302E23, I AM. 0.1977-302E39, WED. WWW.SOIIS.CO. AM.	3.00-3.39 - 3.00-3.39 - 3.00-3.45	13 14	SPT DSPT B	8,8/10,18,18,4 for 10mm								-	
datieioid, wes	3.70	15	D									- - - 4.00	x. x
oueries, r ouery oueer, casuerord, west	4.00-5.00 4.00-4.37 - 4.00-4.37 4.30-4.40	17 18	SPT DSPT C	5,11/14,26,10 for 65mm	100	90	16	NI NI 110			Description on next sheet	- 4.00 - - -	
	_	1							V / / .				

Д.													
The		Boring Pr	ogress and	Water Ob	servations		Chise	lling / Slow F	Progress	Canaral	Damark	_	
tleford:	Date	Time	Borehole	- 5	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remark	S	
ast			Depth	Depth	(mm)	Depth	<u> </u>		(1111.11111)	1. Position cleared using C	AT and Cenny	,	
Ö	13/09/22	14:00	4.00	3.00	200	Dry	1			2. Hand dug inspection pit		y.	
lice	15/09/22	08:00	4.00	4.00	114	2.30	1			3. SPT hammer AR3104-2		00%) used.	
٥	15/09/22	15:15	20.00	4.00	114	16.00					(_, _ , _ , _ , _ , _ , _ , _ , _ , _ ,	,	
anc													
Ä													
멷													
SIOS							1			AH II			_
<u>8</u>				<u> </u>			<u> </u>			All dimensions in metres	Scale: 1	<u>:25 </u>	_
Str.	Method	Insped	ction pit +	Plan		ando 3000	+		ny Hutt +	Logged DNartey +	Checked		1
Ž	Used:	Cable P	ercussion -	+ Used	d: Coma	cchio GEC	205	By:	Luke	Bv: RSenior	Bv:	AG	И

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Structural Soils Lid, Branch Office - Castleford: The Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552295, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. | 11/12/22 - 10:42 | TC9 |

BOREHOLE LOG

Contract:				C	Client:			Boreho	le:		
	EMG Pha	se 2					SEGRO			В	H22
Contract Ref		Start:	13.09.22	Ground	Level (m	AOD):	National Grid Co-ordinate:	Sheet:			
7	'65514	End:	15.09.22		73.80		E:446085.7 N:324639.6		2	of	12
	Samples & Tost	ina	Moobo	nical Loc	,					Τ	

			Samples	& Testing	N	Mecha	anical	Log	■	<u></u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill	Water	Description of Strata	(Thick ness)	Graphic Legend
	4.90	19	D		100	90	16				4.42-4.80m: NI with extremely closely spaced randomly orientated planar and undulating smooth clean locally black stained discontinuities 4.46-4.55m: Extremely weak light greenish grey siltstone. Very weak very thinly to thinly bedded reddish brown MUDSTONE. GRADE II.	- - - -	
	5.50	20	D		100	87	37	NI NI 110			Bedding fractures: Very closely spaced, 0° to 10°, undulating, smooth, clean, locally with a little clay smear on surfaces and locally with black non-penetrative staining. (MERCIA MUDSTONE GROUP) 4.00-4.15m: NI with extremely closely spaced randomly orientated planar and undulating smooth clean locally black stained discontinuities.(stratum copied from 4.00m from previous sheet)	- (2.29)	
.99, WCD. WWW.SOIS.COdr, Elliali. ash	6.30-6.50 6.50-8.00	21	С		100	87	37	V			4.65-4.73m: Extremely closely spaced bands of very weak greenish grey siltstone 4.78-4.82m: Strong grey siltstone 5.00-5.20m: AZCL 5.35-5.40m: NI recovered as clayey angular fine to medium gravel 5.45-5.50m: NI recovered as clayey angular fine to medium gravel 5.59-5.95m: NI recovered as clayey angular fine to medium gravel 5.89-6.29m: Extremely closely to very closely spaced thin and thick laminae (3 to 20mm) of light	6.29	
002E00, 1 dA: 01011-00E	6.80	22	D		100	97	43				grey siltstone. Very weak to weak thinly to medium bedded reddish brown MUDSTONE. GRADE II. Bedding fractures: Closely spaced, 0° to 5°, undulating, smooth with frequent black non-penetrative staining. (MERCIA MUDSTONE GROUP)	-	
	7.35	23	D					NI 80 230			discontinuity with 1mm clay infill on surfaces. 6.69-6.85m: 65° undulating smooth discontinuity with black non-penetrative staining on surfaces. 6.71-6.88m: 40° to 75° undulating smooth discontinuity with black non-penetrative staining on surfaces.	-	
as career, casacacia, west rainer,	8.33-8.44	24	С		100	97	12				6.84-6.91m: Undulating smooth discontinuity with black non-penetrative staining on surfaces 6.93-6.97m: 10° to 20° undulating smooth black stained discontinuity 7.02-7.18m: 30° to 50° undulating smooth black stained discontinuity 7.17-7.23m: 40° undulating smooth discontinuity with 1mm clay infill on surfaces 7.20-7.36m: 50° undulating rough clean discontinuity 7.35-7.45m: NI with extremely closely to very	-	
roughes, rough											closely spaced randomly orientated undulating smooth clean locally black stained discontinuities.	- (5.11) -	

		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	rogress	General	Domorl	' 0	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remair	(5	
3			-	-		-							
										All dimensions in metres	Scale:	1:25	
	Method Inspection pit + Used: Cable Percussion +					ando 3000 cchio GEC		Ву:	ny Hutt + Luke	Logged DNartey + By: RSenior	Checked By:		AGS
		Rotar	v Cored					R	amford	<u> </u>	1		

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1N. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:42 | TC9 |



BOREHOLE LOG

Contract:				Client:			Borehole) :		
EMG Ph	ase 2				SEGRO				В	H22
Contract Ref:	Start:	13.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:		Sheet:			
765514	End:	15.09.22		73.80	E:446085.7 N:32	4639.6		3	of	12

			Liiu.					0.00		211100001111102100110		-
		Samples	s & Testing	N	Иеch	anical	Log		<u></u>		Depth	
Depth (m)	No	Туре	Results	TCR (%)		RQD (%)	If (mm)	Backfill	Water	Description of Strata	(Thick ness)	Graphic Legend
9.00	25	D		100	97	12				7.40-7.53m: 70° undulating smooth black stained discontinuity 7.45m: 3mm diameter light grey reduction spot 7.56-7.58m: 10° undulating smooth black	-	
9.50-11.00				*	*	*				stained discontinuity 7.68-7.70m: Thick laminae (20mm) with fine to medium gravel size siltstone inclusions 7.80-7.93m: 2 no. very closely spaced 30° undulating smooth discontinuities with a little clay smear on surfaces 8.00-8.12m: NI with extremely closely spaced	-	
10.00	26	D		100	90	65	NI 80 230			randomly orientated undulating smooth discontinuities with a little clay smear on surfaces 8.24-8.26m: Greenish grey siltstone 8.26-8.36m: Extremely weak reddish brown mudstone with extremely closely spaced randomly orientated discontinuities, 1mm clay infill 8.46-8.56m: 30° to 70° curved undulating smooth black stained discontinuity 8.54-8.62m: 60° undulating smooth black	-	
- - 10.75-10.94 - - 11.00-12.50		С		<u> </u>		V.				stained discontinuity. 8.61-8.73m: 85° to 90° undulating smooth black stained discontinuity. 8.65-8.71m: 2 no. parallel very closely spaced undulating smooth black stained discontinuity.	-	
11.50	28	D		100	85	50	NI NI 40			non-penetrative staining. (MERCIA MUDSTONE GROUP)	11.40	
- - - 12.15-12.32 - -	29	С					NI 100 160			(stratum copied from 6.29m from previous sheet) 9.50-9.65m: Drilling disturbed, NI, recovered as gravel 9.92-10.10m: Stiff clay with 50% lithorelicts 9.99-10.02m: 15° undulating rough discontinuity with 1mm clay on surfaces 10.30-10.40m: Occasional medium gravel size	12.15	
12.50-14.00	30	D		100	96	47	NI 60 180			siltstone inclusions 10.41-10.60m: 70° to 80° undulating rough clean discontinuity 10.55-10.61m: 70° to 80° undulating rough clean discontinuity 10.61-10.70m: 80° to 90° undulating rough black stained discontinuity. Extremely weak very thinly bedded reddish brown MUDSTONE thickly interlaminated with (soft) clay with 20% lithorelics of extremely weak mudstone. Grade III.	12.60	
										Bedding fractures: Very closely spaced, 0° to 5°, planar and undulating, smooth, clean.		

	Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	rogress	General	Domorl	.	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	15	
									All dimensions in metres	Scale:	1:25	
Method Used:	Cable Po	ction pit + ercussion -	Plan Used		ndo 3000 cchio GEC		Ву:	ny Hutt + Luke	Logged DNartey + By: RSenior	Checked By:	0	AGS

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Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1N. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:42 | TC9 |

BOREHOLE LOG

Contract:				(Client:				Boreho	le:		
	EMG Pha	se 2						SEGRO			ВН	122
Contract Ref	:	Start:	13.09.22	Ground	Level (m	AOD)):	National Grid Co-ordinate:	Sheet:			
7	765514	End:	15.09.22		73.80			E:446085.7 N:324639.6		4	of '	12
	Samples & Tes	ting	Mecha	nical Lo	g _Щ	Ē				Depth	Mat	terial

	_		•									
D- "		Samples	s & Testing			anical			ē		Depth	
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill	Water	Description of Strata	(Thick ness)	Graphic Legend
13.50	31	D		100	96	47				(MERCIA MUDSTONE GROUP) 11.50-11.68m: Stiff thinly to thickly laminated reddish brown clay with occasional mudstone lithorelicts 11.88-12.17m: Stiff thickly laminated reddish	-	
_ _ 14.00-15.50 - -)			+	*	*				brown mottled light grey clay. Extremely weak thinly bedded reddish brown MUDSTONE. GRADE II. Bedding fractures: Closely spaced, 0° to 5°, undulating, rough with a little clay smear on	(3.40)	
_ _ 14.42-14.57 - -	32	С		100	03	52	NI 60			surfaces. (MERCIA MUDSTONE GROUP) 12.66-12.71m: 2 no. parallel extremely closely spaced undulating rough clean discontinuities 12.71-12.75m: 35° undulating smooth discontinuity with a little clay smear on surfaces.	- - -	
- - 15.00 -	33	D		100	92	53	60 180			12.72-13.20m: 80° to 90° undulating / stepped rough locally black stained discontinuity 12.90-12.92m: 5° to 15° undulating rough black stained discontinuity 13.29-13.42m: Thick laminae to very thin beds (20-30mm) of moderately weak grey siltstone 13.32-13.60m: Bedding fractures are 5° to 15°	-	
15.50-17.00)			*	- X -	*				undulating rough locally smooth mainly clean locally with a little clay smear on surfaces 13.42-13.62m: Stiff very thinly bedded reddish brown clay with occasional angular to subangular fine to medium gravel size lithorelics.	- - -	
_ _ 15.90 _	34	D					<u> </u>			Extremely weak to very weak very thinly to thinly bedded reddish brown MUDSTONE. GRADE II. Bedding fractures: Very closely to closely spaced, 0° to 5°, planar and undulating, smooth and rough, clean with occasional clay smear on surfaces. (MERCIA MUDSTONE GROUP)	16.00	
- - 16.28-16.43 - -	35	С		100	90	62				(stratum copied from 12.60m from previous sheet) 13.62-13.64m: Occasional 5 to 10mm diameter grey reduction spots 13.63-13.69m: 50° planar smooth clean discontinuity.	-	
-							NI 80			13.65-13.75m: 40° planar smooth clean discontinuity with 1mm soft clay on surfaces 13.78-13.83m: 85° undulating smooth black stained discontinuity 13.80-14.00m: 85° to 90° undulating smooth black stained discontinuity.	-	
17.00-18.50 - - -	, 						200			black stained discontinuity	- - -	
- - ⁻ 17.68-17.78 - -	36	С		100	93	39				gravel size light grey siltstone inclusions 14.57-14.66m: 85° to 90° undulating smooth black stained discontinuity 14.60-14.90m: Extremely closely to very closely spaced randomly orientated undulating smooth black stained discontinuities.	(4.00)	

		Boring Pro	ogress and	Water 0	Observation	S	Chisel	ling / Slow F	rogress	Conoral	Domor	lco	
	Date	Time	Borehole	Casing	' Diameter	vvalei	From	То	Duration (hh:mm)	General	Remai	KS	
į L			Depth	Depth	(mm)	Depth			,				
Î													
1													
, _										All dimensions in metres	Scale:	1:25	
) I	/lethod Jsed:		tion pit +	Pla • Us		ando 3000 acchio GE0		Drilled Jon Bv:	ny Hutt + Luke	Logged DNartey + Bv: RSenior	Checked Bv:		ags

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Structural Solis Lid, Branch Office - Castleford: The Pottery Street, Castleford, West Yorkshire, WF10 1\overline{10}. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:42 | TC9 |



BOREHOLE LOG

Contract:				Client:		Borehol	e:			
EMG Pha	se 2				SEGRO			В	H22	2
Contract Ref:	Start:	13.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:				
765514	End:	15.09.22		73.80	E:446085.7 N:324639.6		5	of	12	2
										=

			Samples	s & Testing	ı	Mecha	anical	Log	=			Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill	Water	Description of Strata	(Thick ness)	
	18.20	37	D		100	93	39				14.93-14.98m: Extremely weak light grey siltstone 14.98-15.13m: Thinly to thickly laminated stiff reddish brown clay interbedded with extremely weak mudstone 15.14-15.15m: Extremely weak siltstone.	-	
77.77	18.50-20.00		С		- 	X		NI 80			15.45-15.50m: Extremely weak siltstone 15.55-15.65m: Moderately weak thickly laminated greenish grey siltstone 15.65-16.00m: Extremely weak thickly laminated reddish brown mudstone 16.01-16.05m: Weak light grey siltstone 16.05-16.24m: 80° to 85° undulating rough	-	
	19.50	39	D		100	98	43	200			yellow brown stained discontinuity 16.43-16.48m: 40° undulating rough yellow brown stained discontinuity 16.48-16.51m: 30° undulating rough clean discontinuity 16.53-16.56m: 15° undulating smooth yellow brown stained discontinuity 16.54-16.60m: 80° undulating smooth clean	-	
owely entered the second of th					•						discontinuity	20.00	
	-										and undulating, smooth, occasional yellowish brown staining on surfaces. (MERCIA MUDSTONE GROUP) (stratum copied from 16.00m from previous sheet) 18.00-18.10m: Randomly orientated extremely closely spaced undulating smooth clean discontinuities.	-	

<u> </u>		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	Progress	General	Domorl	kc	
Sileioid	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	N 5	
ICII OIIICE - Ce													
JOIIS LIW, DIG										All dimensions in metres	Scale:	1:25	
oll ucturar	Method Used:		tion pit +	Plar Use		ando 3000 acchio GEC		Drilled Jor By:	ny Hutt +	Logged DNartey + By: RSenior	Checked By:	1.25	AGS

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Structural Soils Lid, Branch Office - Castleford: The Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552295, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. | 11/12/22 - 10:42 | TC9 |

Used: Cable Percussion + Rotary Cored

Used:

Luke



BOREHOLE LOG

Contract:				Client:		Borehole	e:			
EMG Pha	se 2				SEGRO			В	H22	2
Contract Ref:	Start:	13.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:				
765514	End:	15.09.22		73.80	E:446085.7 N:324639.6		6	of	12	2
										_

			Sample	s & Testing	ľ	Mecha	anical	Log	=	_		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill	Water	Description of Strata	(Thick ness)	Graphic Legend
eries, Pottery Street, Castlerord, West Yorksnife, WF10 1NJ. 1el: 01977-5522555, FaX: 01977-5522599, Web: Www.solis.co.uk, Email: ask@solis.co.uk, 11712/22 - 10:42 10:9											18.10-18.26m: 75° undulating smooth yellow brown stained discontinuity 18.12-18.15m: 30° undulating smooth yellow brown stained discontinuity 18.25-18.40m: Weak grey siltstone 18.25-18.40m: 60° undulating smooth clean discontinuity locally lightly stained yellow brown 18.68-18.76m: 80° to 90° undulating rough clean discontinuity 18.78-18.80m: Moderately weak light grey siltstone 19.11-19.30m: 50° undulating rough clean discontinuity 19.30-19.33m: Extremely weak light grey siltstone 19.40-19.48m: 5 no. parallel extremely closely spaced 80° to 85° undulating rough clean discontinuities 19.55-19.57m: Very weak light grey siltstone 19.57-19.60m: 20° undulating smooth clean discontinuity 19.60-19.79m: 70° undulating smooth yellow brown stained discontinuity 19.68-19.72m: 25° undulating smooth yellow brown stained discontinuity 19.81-19.85m: 50° undulating smooth clean discontinuity with a little clay smear on surfaces 19.83-19.87m: 20° planar smooth clean discontinuity. Borehole terminated at 20.00m depth.		

		Boring Pro	ogress and	Water Ob	servations		Chisel	ing / Slow F	rogress	Conoral	Domor	ko	
istal city.	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remai	KS	
- 20													
,													
5										All dimensions in metres	Scale:	1:25	
סוו מכוניו	Method Used:	Cable Pe	tion pit + ercussion -	Plan Used		ando 3000 · cchio GEC		Ву:	ny Hutt + Luke	Logged DNartey + By: RSenior	Checked By:		AGS

Bamford

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Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1N. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:42 | TC9 |

Rotary Cored



BOREHOLE LOG

Contract:				Client:		Borehole):		
EMG Pha	se 2				SEGRO			В	H23
Contract Ref:	Start:	13.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	14.09.22		70.77	E:446319.7 N:324654.7		1	of	16

l		000	717	Ena:	14.0	9.22			U.11		E.446319.7 N.324634.7	ı	or IO
			Sample	s & Testing	1	Mecha			& - ioi			Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instru- mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
_	0.10 0.10 0.10 0.10-0.30	1 101 2	D ES B	1xT+1xJ+1xV							TOPSOIL	(0.40)	17 - 3-14 - 3-17 17 - 3-14 - 3-17 17 - 3-14 - 3-17
EIIIaii. ash@soiis.co.ah. 1/1/2/2 - 10:43 103	0.60 0.70 0.70-1.00	102 3 4	ES D B	1xT+1xJ+1xV							Very stiff reddish brown slightly sandy slightly gravelly CLAY. Sand is fine and medium and mudstone derived. Gravel is angular and subangular fine of extremely weak to very weak mudstone lithorelics. Occasional fine and medium gravel size pockets of grey silty sand. GRADE IVa. (MERCIA MUDSTONE GROUP)	(0.60)	
3.00.dh.	1.00	103	ES	1xT+1xJ+1xV							Very stiff reddish brown slightly sandy slightly gravelly CLAY with frequent laminae (<10mm) of	- 1.00	• • • • • • • • • • • • • • • • • • •
IIall. asnæss	1.20 1.20-1.50	5 6	D UT _(UT100)	150 blows 100% recovery							very weak to weak brown sandstone. Sand is fine and medium and mudstone derived. Gravel is angular and subangular fine to coarse of extremely weak to very weak mudstone lithorelics and weak	(1.00)	
i (n)	1.50-1.60	7	D								fine grained sandstone. GRADE III verging towards GRADE IVb.	(1.00)	
WED. WWW.SOIIS.CO.UR,	1.70	8	D								(MERCIA MUDSTONE GROUP)	-	
	2.00-2.45		SPT	N=40							Very stiff reddish brown slightly sandy slightly	2.00	· · · · · ·
A. 01911-002233, v	2.00-2.45 2.00-2.45	10 11	DSPT B								gravelly CLAY with frequent fine and medium gravel size pockets of grey silty sand. Sand is fine and mudstone derived. Gravel is angular and subangular fine to coarse of extremely weak to very weak mudstone lithorelics and weak fine grained sandstone. GRADE IVb.	- - -	
,	2.50-2.88		SPT	8,12/13,14,23 for 75mm							(MERCIA MUDSTONE GROUP)	(1.30)	
01011-005500	- 2.50-2.88 - 2.50-3.00	13 14	DSPT B									- - -	
5	3.00-3.37		SPT	9,14/15,17,18								_	
	3.00-3.37	16	DSPT	for 70mm								3.30	<u> </u>
, will 10 1140. 101.	3.30-4.80					A					AZCL. (MERCIA MUDSTONE GROUP)	3.50	AZCL
2	- - -										Very stiff reddish brown slightly sandy gravelly CLAY. Sand is fine to medium and mudstone derived. Gravel is fine to coarse angular to subangular extremely weak mudstone. GRADE III. (MERCIA MUDSTONE GROUP)	3.75	
oueries, rouery sueer, casuerora, west	3.90	25	D		80	33	0				Extremely weak reddish brown MUDSTONE. GRADE II Fractures: Very closely spaced, randomly orientated, rough, undulating, dark brown staining on surfaces (MERCIA MUDSTONE GROUP)	(0.90)	

_													
e E		Boring Pr	ogress and	Water Ob	servations		Chise	lling / Slow	Progress	Canaral	Damari	مادم	
erord:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Reman	KS	
astleto			Depth	Depth	(mm)	Depth		'	(1111.111111)	1 Desition elegand using C	AT and Can		
ػ	12/09/22	16:33	2.50	1.50	200	Dry	2.50	3.00	00:45	1. Position cleared using C 2. Hand dug inspection pit		ny.	
CHICE	14/09/22		15.30	4.00	114	-				3. SPT hammer AR3104-2		1.00%) ı	used.
ancn (
g Br													
IS L													
SO SO										All dimensions in metres	Scale:	1:25	
CTU	Method		ction pit +	Plan		ando 3000		Drilled		Logged DNartey +	Checked		
SIL	Used:		ercussion -	+ Used	d: Coma	cchio GEC	205	By: J	onny Hutt	By: DNeylon	Ву:		AGS
		KUIS	rv Cored							·			

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Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1N. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:43 | TC9 |



BOREHOLE LOG

Contract:		Client:		Borehole	e :		
EMG Ph	nase 2		SEGRO			Bl	H23
Contract Ref:	Start: 13.09.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End: 14.09.22	70.77	E:446319.7 N:324654.7		2	of	16
						_	

.		Sample	s & Testing			anical	.og <u></u> ≒ ⊑ .		Depth	Material
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	It Backfill & Borner Instru-	Description of Strata	(Thick ness)	Graphic Legend
-									4.65	
_				80 _ Y	33 	0		Extremely weak greenish grey SILTSTONE. (MERCIA MUDSTONE GROUP)	4.80	× × × × × × × ×
4.80-6.30 - 5.20	26	D						Extremely weak reddish brown thickly laminated MUDSTONE with very closely spaced laminae and very thin beds (<25mm) of gravelly clay. GRADE II verging towards GRADE III. (MERCIA MUDSTONE GROUP)	- - (0.65)	
-									⁻ 5.45	
-				97	21	0		Extremely weak greenish grey thinly laminated SILTSTONE. (MERCIA MUDSTONE GROUP)	5.55	× × × × ×
- -								Very stiff reddish brown lightly sandy slightly gravelly CLAY. Sand is fine to medium and mudstone derived. Gravel is fine to medium mudstone lithorelics. GRADE III.	(0.55)	
-								(MERCIA MUDSTONE GROUP) Extremely weak reddish brown thinly laminated MUDSTONE. GRADE II verging towards GRADE	6.10	
6.30-7.80				-	*	X		ŊIII.	6.30	
- - -								\(\text{(MERCIA MUDSTONE GROUP)}\) AZCL. (MERCIA MUDSTONE GROUP)	(0.70)	AZCL
6.80-7.17		SPT	2,9/11,14,25 for 70mm						7.00	
7.20	27	D		53	18	0		Extremely weak reddish brown MUDSTONE. GRADE II. (MERCIA MUDSTONE GROUP)7.00-7.40m: Thinly laminated.	-	
- - -								7.40-7.45m: Thinly laminated greenish grey silt 7.45-7.55m: Extremely weak greenish grey	- - -	
7.80-9.30				+	*	X		thinly laminated siltstone 7.55-7.85m: Thickly laminated.	-	
- - - -								7.85-8.20m: Very closely spaced randomly orientated rough undulating fractures with black staining on surfaces.	-	
8.40 - -	28	D		100	9	0		8.35-8.65m: Extremely closely spaced rough planar bedding fractures and very closely spaced randomly orientated rough undulating fractures with dark brown staining on surfaces 8.65-8.70m: Thinly laminated greenish grey silt 8.70-8.95m: Recovered as gravel.	-	

2		Boring Pro	ogress and	Water O	oservations		Chisell	ing / Slow F	Progress		General I	Domor	-ko	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter	Water Depth	From	То	Duration (hh:mm)		Generali	Remai	KS	
3			Берит	Depui	(mm)	Берит			, ,	+				
3														
į														
2														
ĺ														
2										A II - I'		0 1		
ā										All dimens	ions in metres	Scale:	1:25	
3	Method Used:	poot p.:					Drilled By: J o	nny Hutt	Logged By:	DNartey + DNeylon	Checked By:		AGS	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552256, Fax: 01977-552299, Web



STRUCTURAL SOILS

Contract:						Client:				Boreho	le:	
		EMG	Phase 2		_			SEGR				BH2
Contract Re			Start:	13.09.22	Grour	nd Level (m AO	D):		d Co-ordinate:	Sheet:		
	765			14.09.22		70.77		E:4463	319.7 N:324654.7		3	of 16
Depth (m)	No		& Testing Results	TCR SCF	RRQD (%)	Backfill & Bornstru- Mater		De	escription of Strata		Depth (Thick ness)	
9.30-10.80				100 9	0		orie stail Extr GR. (ME fron	entated rough ning on surfa remely weak ADE II. ERCIA MUDS 7.00-7.40m n 7.00m from 9.40-9.4 enish grey sill 9.45-9.70m nced random	reddish brown MUDS STONE GROUP) : Thinly laminated.(stratum previous sheet) :5m: Extremely weak lar	TONE. copied minated closely ar and	- - - - - - - (5.70)	
10.55	29	D		97 35	11		surf san med san med brov is fi	faces. 9.90-9.95n dstone, recodium gravel. 10.35-10.40 dstone, recodium gravel. 10.40-10.6 wn slightly sa	n: Thinly laminated greenis overed as subangular f m: Thinly laminated greeni- overed as subangular f 5m: Stiff thinly laminated andy slightly gravelly CLAY mudstone derived. Gravel gular to subangular mu	sh grey fine to sh grey fine to reddish /. Sand is fine	-	
11.70	30	D		77 33	28	<u>‡</u>	orie stai	. 11.45-12.70 entated rough ning on surf	m: Recovered as gravel . Om: Very closely spaced rate in undulating fractures with aces and closely to very fractures with black and ces.	n black closely	-	
12.30-13.80 12.30-12.43		SPT	25/50 for 60mm	* *	X						-	
- -				77 33	28		reco	overed as sa dium gravel. (r reddish brown MUDS ndy angular to subangular GRADE III. STONE GROUP)	TONE, fine to	12.70 - - -(0.50) -	
13.20	31	D					Des	scription on n	ext sheet		13.20	
											(0.60)	
	oring I Time	Boreh	_	Borehole Diameter	Water	From	/ Slov To	Duration (hh:mm)	General	Rema	arks	
		Dep	th Depth	(mm)	Depth			,				
<u> </u>										Scale:	1:25	
Method Used: (ection pi			ndo 300		illed ':		Logged DNartey + By: DNeylon	Checke	ed	А

		Boring Pro	ogress and	Water Ob	servations		Chisel	ing / Slow F	Progress	General	Domorl		
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remair	(5	
3													
2													
; 5										All dimensions in metres	Scale:	1:25	
	Method Jsed:							Drilled By: Jo	nny Hutt	Logged DNartey + By: DNeylon	Checked By:		AGS



BOREHOLE LOG

Contract:					Client:			Boreho	le:		
	EMG Pha	se 2					SEGRO			В	H23
Contract Ref:		Start:	13.09.22	Ground	d Level (m	AOD):	National Grid Co-ordinate:	Sheet:			
70	65514	End:	14.09.22		70.77	ı	E:446319.7 N:324654.7		4	of	16
	Samples & Testing Mechanical									Т	

7	655	14	End:	14.0			70.7			E:446	319.7 N:324654.7	4	of
Depth		Samples	s & Testing		_	anical		Water			locariation of Strate	Dept	
(m)	No	Туре	Results	TCR (%)	RSCF (%)	RQD (%)	(mm) 물 절 (mm)	ment Wa		D	escription of Strata	(Thic	
									Extren		ık reddish brown MUDST	ONE	
				77	33	28			Fractu	res: Ve		domly	
13.80-15.30				X	X	+			orienta		gh, undulating, black stainin	ig on 13.80	X X
									(MER	CIA MUD	STONE GROUP)	(0.35) × × ×
											from 13.20m from previous s reenish grey thickly lamin	heet) [× × × × × ×
									SILŤS	TONE.	3 , ,	- 14.10	
											STONE GROUP) k reddish brown MUDST(ONE	
									GRAD	ΕÍΙ.			
14.60-14.95	22	С		100	37	37			rough,	res: Clos undulatir	ely spaced, randomly orienting, black staining on surfaces.	tated, -	
14.00-14.93	32	C									ŠTONE GROUP)	-	
												(1.50)
												-	
												-	
				↓								-	
15.30-16.80				À	A	1						[
												-	
45.05.45.00	00	0							10/	, P		15.6	5
15.65-15.90	33	С							mediu	n grained	um strong greenish grey fir SANDSTONE.	ne to -	
									(MER	CIĂ MUD	STONE GROUP) 5: Greenish grey silt.	(0.65	\
				100	52	40				1.00-10.7	o. Oreemsir grey siit.	(0.00	' :::
				100	52	40						Ė	
											LE LA MUDOTONE	16.3) <u>:::</u>
									lenses	of greeni	reddish brown MUDSTONE sh grey siltstone. GRADE II.	: with	
											STONE GROUP) Om: NI, recovered as gravel.	- (0.65	\
											_	Ī,	
				<u> </u>	₩	+			sands		80m: Medium strong greenish	grey	
									Voncu	roak aroo	nish grey SILTSTONE.	16.9	5 × × ×
									(MÉR	CIA MUD	STONE GROUP)	. [× × × ×
											5m: 45°, rough undulating frac ish brown clay.	cture,	× ×
											·	(0.85	$\left \begin{array}{c} \times \times \\ \times \times \end{array}\right $
													××
									17	′ 60 ₋ 17 7(Dm: Reddish brown mudstone	-	x x
										.00 17.71	om. reduier brown madelene	17.8) × × × ×
		_							Descri	ption on	next sheet	-	-0_
17.90	34	D											<u> </u>
Bo	ring F	Progress	and Water Ob	oserva	tions		Chi	sellin	g / Slow F	rogress	Canaral) o m o = : =	
Date	Time	Borel	0	Borel Diam	eter	Wate	II ⊨ro	n	То	Duration (hh:mm)	General R	temarks ———	
		Dep	oth Depth	(mr	m)	Dept	h			(1111.11111)			
											All discounts in the second	N1- 4 -	
				\perp								Scale: 1:2	<u> 25</u>
Method	Inen	ection p	oit + Plan	nt	Da	ndo 30	100 +	חו	rilled		Logged DNartey +	Checked	

	Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow	Progress	General	Domor	·ko	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remai	K5	
3												
i i												
5									All dimensions in metres	Scale:	1:25	
Method Used:	opooto p.t					I	Drilled Bv: J	onny Hutt	Logged DNartey + Bv: DNevlon	Checked By:		AGS



BOREHOLE LOG

Contract:					Client:			Boreho	ole:		
	EMG Pha	se 2					SEGRO			Bŀ	1 23
Contract Re	f:	Start:	13.09.22	Groun	d Level (m A	(OD):	National Grid Co-ordinate:	Sheet:			
	765514 End:				70.77		E:446319.7 N:324654.7		5	of	16
	Samples & Testing			anical L	og ≝ ˌ ౖ <u></u>	<u></u>			Depth	Ma	aterial

<u> </u>	<u>0</u> 0;	514	End:	14.09	9.22		70.77		E:446319.7 N:324654.7	5	of 10
		Samples	s & Testing	ı	Mech	anical	Log ∞ <u>.</u> 5	_		Depth	Mater
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	Dackfill & Backfill &	Water	Description of Strata	(Thick ness)	Graph Leger
18.30-19.80					_	_			Very stiff reddish brown slightly sandy slightly gravelly CLAY. Sand is fine to medium and mudstone derived. Gravel is fine to coarse angular mudstone lithorelics. GRADE IVa. (MERCIA MUDSTONE GROUP) (stratum copied from 17.80m from previous sheet) AZCL.	18.30	AZ(
									(MERCIA MUDSTONE GROUP)	18.70	
				73	29	0			Extremely weak reddish brown thinly laminated MUDSTONE. GRADE II. Bedding fractures: Extremely closely spaced, rough, planar. (MERCIA MUDSTONE GROUP)	(0.60)	
										19.30	
19.40	35	D							Stiff reddish brown sandy CLAY. Sand is fine to medium and mudstone derived. GRADE IVb. (MERCIA MUDSTONE GROUP)	(0.40)	
										19.70	
19.80-21.30				*	*	*	-		Extremely weak greenish grey SILTSTONE. (MERCIA MUDSTONE GROUP) 19.80-19.85m: Stiff reddish brown sandy clay.	(0.30)	× × × × × ×
									19.85-20.00m: Very closely spaced randomly orientated fractures with yellow staining on surfaces.	20.00	× × ;
				100	0	0			Extremely weak reddish brown MUDSTONE with occasional fine to medium gravel size pockets of greenish grey siltstone. GRADE II. Bedding fractures: Closely spaced, rough, planar. (MERCIA MUDSTONE GROUP)	(1.00)	
									E (21.00	
21.20-21.30 21.30-22.80	36	С		X	X	X			Extremely weak reddish brown MUDSTONE. GRADE II. (MERCIA MUDSTONE GROUP)	- - (0.65)	
1.30-22.00									21 50m: Firm roddich brown clay	-	
									21.50m: Firm reddish brown clay.	21.65	
				100	41	35			Extremely weak reddish brown MUDSTONE with frequent fine to coarse gravel size pockets of greenish grey siltstone. GRADE II. (MERCIA MUDSTONE GROUP) 22.00-22.50m: Closely interbedded with weak	- - -	
22.05-22.25	37	С							greenish grey siltstone. Bedding fractures: Closely spaced, rough, planar, infilled with reddish brown clay.	- -	

	Boring Pr	ogress and	Water Ob	servations		Chisell	ing / Slow F	Progress		General l	Domor	lko	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)		Generali	Remai	KS	
		Берит	Берит	(111111)	Берит				-				
									All dimensi	ons in metres	Scale:	1:25	
Method						+	Drilled		Logged	DNartey +	Checked		
Used:		ercussion ·	+ Used	d: Coma	cchio GEC	205	By: J o	nny Hutt	By:	DNeylon	By:		AGS
L	Rota	rv Cored											1000

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Ille	J		. •.	- 1=							BOF	REH	DLE	ΞL	.OG
Contract:							Cli	ent:					Borehol	e:	
	E	MG Pha	se 2								SEGRO				BH23
Contract Ref	f:		Start:	13.0	9.22	Grour	nd Le	evel (m	AOD):	National Grid Co-ordinate:		Sheet:		
7	765514		End:	14.0	9.22		7	70.77			E:446319.7 N:324	1654.7		6	of 16
Depth		ples & Tes				anical L	_og If	Backfill & Instru- mentation	Water		Description of St	rata		Depth (Thick	Material Graphic
(m)			sults		67	(%) (35 43	(mm)	Ba Ir me	-	freq gree (ME (stra grav	remely weak reddish brown uent fine to coarse gravel enish grey siltstone. GRADE: RCIA MUDSTONE GROUF atum copied from 21.65m fro 22.50-22.55m: Recovered a . 22.90-23.15m: Recovered rel.	I size pocker II. P) m previous s s clayey grav I as sandy common MUDST RADE II.	sheet) vel. clayey	(1.85) (23.50 (1.00)	Legend
24.30-25.80					*	*				GR/ (ME	y stiff reddish brown sligh ADE IVb. ERCIA MUDSTONE GROUF remely weak greenish grey TSTONE and fine grained SA	thinly interbe	edded	24.50 (0.35) 24.85 -(0.35)	× × × × × × × × × × × × × × × × × × ×
25.40-25.65	39 C			100	20	0			7	und grav (ME Ven	Iding fractures: Closely ulating, infilled with sandy vel of siltstone. RCIA MUDSTONE GROUF stiff reddish brown sligh velly CLAY. Sand is fine to be	fine to me b) tly sandy s	ough, edium	25.20	× × × × × × × × × × × × × × × × × × ×

_						derived. Gravel is angular fine to median middsone lithorelics. GRADE III verging towards GRADE II. (MERCIA MUDSTONE GROUP)	(1.15)	
25.80-27.30			A	A	A			
							_	<u></u>
_							_	<u> </u>
-							_	- <u>°</u>
-							26.35	
-			100	20	0	Extremely weak greenish grey thickly	-	
-			lι		1	interlaminated SILTSTONE and fine grained SANDSTONE.	- (0.35)	
-						Bedding fractures: Closely spaced, rough,	26.70	
-						undulating, infilled with sandy fine to medium gravel.		<u></u>
- 26.85-27.15	10 0	3				(MERCIA MUDSTONE GROUP)		
20.03-27.13	40					Description on next sheet		•

26.85-27.1	15 40	С					L .					
В	Soring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	Progress	Conoral	Damark	· -	
Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remark	.S	
		Берит	Берип	(mm)	Берит			, ,				
									All dimensions in metres	Scale:	<u>1:25 </u>	
Method Used:	Jsed: Cable Percussion +						_	nny Hutt	Logged DNartey + By: DNeylon	Checked By:		AGS
	Date Method	Date Time Method Inspectable Personal Cable Person	Boring Progress and Date Time Borehole Depth Method Inspection pit +	Boring Progress and Water Ob Date Time Borehole Casing Depth Depth Method Inspection pit + Cable Percussion + Plan	Boring Progress and Water Observations Date Time Borehole Casing Depth	Boring Progress and Water Observations Date Time Borehole Casing Depth Depth Water Depth Depth Depth Depth Depth Method Used: Cable Percussion + Plant Used: Comacchio GEO	Boring Progress and Water Observations Chisel Date Time Borehole Casing Depth Depth Depth Depth Depth Depth From Method Used: Comacchio GEO 205	Boring Progress and Water Observations Date Time Borehole Casing Depth Depth Depth Depth Borehole Diameter (mm) Depth From To Method Used: Dando 3000 + Drilled By: Jo	Boring Progress and Water Observations Date Time Borehole Casing Depth Boring Progress and Water Observations Date Time Borehole Depth Dept	Boring Progress and Water Observations Date Time Depth Dept	Boring Progress and Water Observations Date Time Borehole Depth D	



BOREHOLE LOG

Contract:			Client:		Borehole	e:		
EMG Ph	ase 2			SEGRO			В	H23
Contract Ref:	Start:	13.09.22	Ground Level (m AOI	D): National Grid Co-ordinate:	Sheet:			
765514	End:	14.09.22	70.77	E:446319.7 N:324654.7		7	of	16

		Samples	s & Testing	ı	Mecha	anical	Log <u>⊌ , 5</u>	يا			<u> </u>	Depth	Mate
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	It Backfill & Backfi	Water		De	escription of Strata	(Thick ness)	
27.30-28.80				100	20	0			gravel derive lithore (MER	ly CLAY. \$ d. Gravel i lics. GRAD CIA MUD\$	sh brown slightly sandy slightly Sand is fine to medium mudstones fine to coarse angular mudstone EIII verging towards GRADE II. STONE GROUP) from 26.70m from previous sheet	e -	
27.60-27.80	41	С		93	71	50			closely	y spaced, en 5 to 20r	ddish brown MUDSTONE wit planar, gypsum veins, typicall mm thickness. STONE GROUP)	1 -	
28.80-30.30 28.80-29.05		С		X	X	X			 reddis	28.55-29 h brown.	.25m: Becoming weak and ligh	t - (2.77)	
-				100	85	75					m: Greenish grey siltstone. Becoming very weak to extremel	- - - - - - - -	
· - - ·				•	•	V						30.32	
: : : :												-	
	-i I		and Mater Ob				Ohio		T. / Clave	200.000.00	I	-	
	ring I	Borel	-	Boreh Diame (mn	nole eter	Wate Dept	From		g / Slow F To	Duration (hh:mm)	General Ren	narks	
Method	Insp	pection p	sit + Plar	ıt	Dar	ndo 30	000 +		rilled		All dimensions in metres Scale Logged DNartey + Chee		
		Percuss					GEO 205	B		nny Hutt	By: DNeylon By:		A

	Boring Pro	ogress and	Water Ob	servations		Chisel	ing / Slow	Progress		General I	Domor	ko	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	•		Remai	KS	
			•	,									
										ı			
) 									All dimensi	ons in metres	Scale:	1:25	
Method Used:							Drilled By: J	onny Hutt	Logged By:	DNartey + DNeylon	Checked By:		AGS



BOREHOLE LOG

Contract:				Client:		Borehole	:		
EMG Pha	se 2				SEGRO			В	H24
Contract Ref:	Start:	12.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	14.09.22		67.02	E:446273.4 N:324520.3		1	of	11

Ī			Sample	s & Testing	N	Mecha	anical	Log	∞ ¹ ioi '	_		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD	lf (mm)	Backfill & Instru-mentation	water	Description of Strata	(Thick ness)	Graphic Legend
	0.00-0.00 0.00-0.10 0.05-0.05	1 3 2	D B ES	1xT+1xJ+1xV	(70)	(70)	(70)	(11111)			TOPSOIL	(0.40)	'/ '0' ' '/ '0' '7 \langle \l
44 1C9	0.10-0.10 0.10-0.40 0.20-0.20 0.40-0.40	4 6 5 7	D B ES D	1xT+1xJ+1xV							Firm light orangish brown gravelly CLAY. Gravel is angular to subrounded fine to medium of	0.40	
ask@soils.co.uk. 11/12/22 - 10:44 1C9	- 0.40-1.00 _ 0.50-0.50	9 8	B ES	1xT+1xJ+1xV							mudstone.	(0.60)	
s.co.uk.	1.00-1.00	10	ES	1xT+1xJ+1xV							Firm thinly laminated orangish brown, mottled grey, slightly sandy gravelly CLAY. Sand is fine to	1.00	
	1.20-1.65 1.20-1.65 1.20-1.70	12 13	SPT DSPT B	N=49							medium. Gravel is fine to medium of mudstone	1.20	** · · · · · · · · · · · · · · · · · ·
w.soils.co.uk, En	1.70	14	D								Dense greenish grey gravelly silty fine to medium SAND. Gravel is angular and subangular fine to coarse strong siltstone. Frequent fine and medium gravel size pockets and lenses (<15mm) of brown silty sand. GRADE III.	(0.80)	× · · · × · · · × · · · · · · · · · · ·
Web: ww	- 	15	ES								(MERCIA MUDSTONE GROUP) Very stiff reddish brown slightly sandy slightly	2.00	× × · · · · · · · · · · · · · · · · · ·
. 01977-552299,	2.00-2.45 2.00-2.45 2.00-2.50	16 17	SPT DSPT B	N=45							gravelly CLAY. Sand is fine to medium and mudstone derived. Gravel is angular to subangular fine mudstone lithorelics. GRADE IVa. (MERCIA MUDSTONE GROUP)	- - -	
Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email:	2.50	18	D									- (1.50)	
J 1NJ. 16I: U	3.00 3.00-3.34	19	ES SPT	3,9/14,23,13 for 43mm								-	
kshire, WF10	3.00-3.45	20 21	DSPT B	101 43111111								3.50	
⊦	3.50-5.00 3.50 - 3.50-3.78	22	D SPT	7,15/26,24 for 50mm			A	•			Extremely weak reddish brown MUDSTONE. Recovered as slightly clayey sandy fine to coarse angular gravel. Occasional thin and thick laminae of grey siltstone.	-	
otteries, Pottery Street, Castleford, Wes	3.50-3.95 - - -	23	DSPT	10. 0011111	100	0	0	3 15			Fractures: Randomly orientated, very closely spaced, undulating rough to undulating smooth, abundant black staining. (MERCIA MUDSTONE GROUP)3.50-3.75m: NI, clayey sandy gravel4.00-4.23m: NI, silty sandy gravel.	- - -	
itteries,	-											_	

	Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow	Progress	Conoral	Remarks	
Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remarks	
		Depth	Depth	(mm)	Depth				1. Position cleared using C	AT and Genny	
14/09/22		9.00	3.50	114	Dry	3.30	3.50	00:30	2. Hand dug inspection pit		
15/09/22		9.00	3.40	114	Dry				2. Haria dag mopositori pit	10 1.2011.	
					, ,						
·											
									All dimensions in metres	Scale: 1:25	
Method							Drilled		Logged JAlton +	Onlocator	
Used:				d: Coma	cchio GEC	205	By: Ch	ris Jobson	By: RStan	By:	US

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1N. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:44 | TC9 |

Rotary Cored



BOREHOLE LOG

EMG Phase 2 SEGRO BH24 Contract Ref: Start: 12.09.22 Ground Level (m AOD): National Grid Co-ordinate: Sheet: 765514 End: 14.09.22 67.02 E:446273.4 N:324520.3 2 of 11	Contract:				Client:			Borehole	э:		
	EMG Pha	se 2					SEGRO			В	H24
765514 End: 14.09.22 67.02 E:446273.4 N:324520.3 2 of 11	Contract Ref:	Start:	12.09.22	Ground	d Level (m AO	D):	National Grid Co-ordinate:	Sheet:			
	765514	End:	14.09.22		67.02		E:446273.4 N:324520.3		2	of	11

		Samples	s & Testing		Mecha	anical	Log	ଷ , ଟ	L					Depth	Mater
Depth (m)	No	Туре	Results			RQD		Backfill & Instrumentation	Water		De	escription of Strata	(Thick ness)	Grap Lege
4.60-4.70	27	D		100	0	0				Recove angula of grey Fractu	ered as sli r gravel. (siltstone. res: Ran	reddish brown MUDS1 ghtly clayey sandy fine to o Occasional thin and thick la domly orientated, very o	coarse aminae closely	(2.50)	
5.00-6.00				X	*	*	3 15	<u>```</u> `∃:``:		abunda (MER) 3. copied	ant black s CIA MUDS 50-3.75m from 3.50	ng rough to undulating si taining. STONE GROUP) : NI, clayey sandy gravel.(s m from previous sheet) NI, clayey sandy gravel.			
5.41-5.54 -	25	С		100	0	0				predon rough (5.00-6 ninantly v occasional 13-5.30m:	.00m: Fracture 0-10°, (erry closely spaced undirection and abundant black stainin NI, sandy gravel. grey siltstone.	ulating -		
- 5.74 - 5.83 -	26	D								5.4	13-5.51m: 5.62-5.73r	NI, sandy gravel. n: thinly interlaminated with	h grey	0.00	
6.00-7.50				X	- X -	 	X	_		5.9 Extrem	34-5.87m: 94-6.00m: nely weak	medium strong grey siltston weak grey siltstone. , locally thinly laminated, IUDSTONE. Occasional p	, dark	6.00	
6.39-6.63	27	С		100	62	40				and la siltston Fractui undula discolo	aminae of e. GRADE res: Inc ting, roug ouration on CIA MUDS	weak to medium strong E III. sipient, randomly orier h, occasional black stainin	g grey _ ntated, ig and -		
7.50-9.00	28	С		_	*	*	NI 270			occasic gravel 6.6 to 3mm 6 with gravel stained	ted inciponal black Rare redu 80-6.42m: 652m: 18° un. 64-7.08m; siltstone 6.96-7.05 l. 7.00-7.06 l. 7.04-7.06m; to 3mm. 16-7.17m:	pient undulating rough staining. Recovered as a action spots (<5mm). 50° undulating rough. undulating rough, silty clay in thinly and thickly interlam	with angular a	(3.00)	
-				100	67	40				staining	g 50-7.55m: 7.72-7.73 g 7.85-7.86 i. 38-7.96m: 01-8.12m:	NI. 3m: 4° planar rough rare 5m: 9° planar rough rare 77° undulating rough clean 37° planar rough clean. 31° undulating rough occa	black black	9.00	
Во	ring F	Progress	and Water Ob	servat	ons			Chise	elling	ı / Slow P	rogress	Canaral	Dama	rl r o	
Date -	Time	Borel Dep	0	Boreh Diame (mn	eter	Wate Dept	. 11	From		То	Duration (hh:mm)	General F	xema —	KS	
Method Used: C		ection p		. –		2000 chio (Dri	illed	s Jobson	All dimensions in metres Logged JAlton + By: RStan	Scale: Checked By:	1:25	A

		Boring Pro	ogress and	Water Ob	servations		Chisel	ing / Slow	Progress	General	Domorl	140	
[Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	KS	
			Ворит	Борит	(11111)	Ворит							
										All dimensions in metres	Scale:	1:25	
	Method Inspection pit + Plant Dando 2000 Jsed: Cable Percussion + Used: Comacchio							Drilled By: C h	ris Jobson	Logged JAlton + By: RStan	Checked By:	0	1 1000
			v Cored	. 0000	Joina	CCIIIO GEC	, 200	<i>-</i> ,	113 0003011	Sj. Kotan	Dy.		ACC



BOREHOLE LOG

Contract:			Client:		Borehole	e:		
EMG PI	nase 2			SEGRO			ВІ	H24
Contract Ref:	Start:	12.09.22	Ground Level (m A	AOD): National Grid Co-ordinate:	Sheet:			
765514	End:	14.09.22	67.02	E:446273.4 N:324520.3		3	of	11

		_								1
Donth		Samples	s & Testing	L	Mecha	anical	Log ∞	ation at	Depth	
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	Log ⊗ Sack (mm)	Instru- mentatio	Description of Strata (Thick ness)	Graphic Legend
9.00-10.50	29	С		A		A		7	ccasionally black staining 8.56-8.71m: NI, thinly interlaminated with grey siltstone 8.73-8.87m: 76° planar rough occasional black specks. AZCL (MERCIA MUDSTONE GROUP)	AZCL
- - - - - - - 10.50-11.80				87	19	8		<u>‡</u>	Extremely weak thinly laminated reddish brown, locally dessicated, MUDSTONE. Occasional interlaminae of grey fine siltstone. GRADE III. Fractures: Randomly orientated, predominantly planar, rough, with occasional clayey silt infill. (MERCIA MUDSTONE GROUP) 9.55-9.81m: NI, recovered as clayey gravel 9.81-10.01m: extremely weak mudstone 10.01-10.45m: thinly laminated mudstone with occasional interlaminae of grey siltstone 10.45-10.50m: NI recovered as gravel 10.50-10.86m: AZCL.	
- - - - - - 11.48-11.68	30	С		72	40	18	A		10.86-11.00m: Weak interlaminated mudstone and grey siltstone 11.00-11.27m: NI, recovered as sandy angular gravel. Extremely weak to very weak reddish brown MUDSTONE. Occasionally interbedded with weak to medium strong siltstone. GRADE III. Bedding fracture: 0-10°, closely to widely spaced, predominantly planar, rough, with occasional black staining on surface, rare infill of silt.	
- 11.80-13.30 11.80-11.89 - 11.88-12.18 - - - - - -		SPT C	26/50 for 20mm	100	91	71	170 1080		(MERČIA MUDSTONE GROUP) 11.27-11.28m: 4° planar rough occasional black staining 11.32-11.39m: 7° planar rough occasional black staining, silt infill up to 3mm 11.39-11.40m: 6° planar rough occasional black staining, silt infill 12.32-12.33m: 4° planar rough occasional black staining 12.32-12.39m: 71° planar rough abundant black staining 12.50-12.52m: 7° planar rough occasional black staining 12.61-12.71m: 69° undulating rough abundant black staining 12.87-12.88m: 11° undulating rough rare black staining.	
13.30-14.80)			100	88	84	*		black staining. 13.30 13.30 13.30	

	Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	Progress	Cono	ral [Remar	ko	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	Gene	Iaii	Temai	KS	
				,									
									All dimensions in m	etres	Scale:	1:25	
Method Used:		tion pit +	Plan Use		o 2000 Mar cchio GEC		Drilled By: Chr	is Jobson	Logged JAlton By: RStan		Checked By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552256, Fax: 01977-552299, Web



Contract:					Client	:			Boreho	le:		
	EMG Pha	se 2						SEGRO			В	H24
Contract Ref	•	Start:	12.09.22	Ground	Leve	l (m A	OD):	National Grid Co-ordinate:	Sheet:			
7	65514	End:	14.09.22		67	.02		E:446273.4 N:324520.3		4	of	11
	Samples & Tost	tina	Macha	nical La	a ox	-					Т	

			Sample	s & Testing	l N	Necha	anical	Log	∞ , 등	_		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	Log If (mm)	Backfil Instru mentat	Water	Description of Strata	(Thick ness)	Graphic Legend
TC9	- - - 13.74-13.95 - -	32	D								13.31-13.45m: 54° planar rough occasional black staining 13.36-13.37m: 4° planar rough occasional black staining. Weak reddish brown MUDSTONE. Occasionally interbedded with weak to medium strong siltstone. GRADE II.	-	
gsoils.co.uk. 11/12/22 - 10:44	-				100	88	84				Fractures: 80-90° and 0-10°, planar, rough, occasional black staining. (MERCIA MUDSTONE GROUP) 13.30-13.74m: medium strong fragmented siltstone.(stratum copied from 13.30m from previous sheet) 13.63-13.65m: 9° planar rough occasional black staining 13.91-14.59m: 82° planar rough occasional	-	
o.uk, Email: ask@	_ _ 14.80-16.30 _ _ -				X	*	*				black staining 14.51-14.55m: weak siltstone 14.70-14.80m: NI, recovered as angular gravel 14.80-14.99m: NI, fractures randomly	- - -	
'eb: www.soils.co	_ _ 15.21-15.45 - -	33	С								orientated and 40-50° closely spaced planar rough clean 15.15-15.80m: Grey weak and medium strong siltstone.	-	
rt . GPJ - VIU UI. x: 01977-552299, W	-				100	87	82				15.67-15.92m: reddish brown mottled grey mudstone and siltstone.	-	
AND AIRFO 7-552255, Fa:	-					_					16.04-16.22m: 86° undulating rough rare black staining.	_	
33 14 EAS I MIDL 10 1NJ. Tel: 0197;	_ 16.30-17.80 - - -										16.34-16.50m: grey siltstone.	- - -	
rkshire, WF	_ _ 16.81-17.08 _	34	С								16.78-16.86m: grey siltstone.	- - -(7 50)	
Frjverson: vo_o/ Log ComPOSITE LOG - A4F 100314_EA51_MIDDAND_AIRFORT.GF7 - V10_01. otteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solls.co.uk, Email: ask@solls.co.uk. 11/12/22 - 10:44 TC9	-				100	100	100				17.03-17.05m: grey siltstone 17.12-17.15m: grey siltstone 17.22-17.23m: 8° planar rough clean 17.23-17.31m: grey siltstone.	-(7.50) - - - - - -	
rijversion: tteries, Pottε	17.80-19.30				100	91	81	_			17.80-17.86m: NI. 17.80-18.30m: grey siltstone.	_	

		Boring Pro	ogress and	Water Ob	servations		Chisel	ing / Slow	Progress	General	Domorl	140	
[Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	KS	
			Ворит	Борит	(11111)	Ворит							
										All dimensions in metres	Scale:	1:25	
	ethod sed:		tion pit +	Plan Used		o 2000 Mai		Drilled By: C h	ris Jobson	Logged JAlton + By: RStan	Checked By:	0	1 1000
	Rotary Cored Commercial Commercia						, 200	<i>-</i> ,	113 0003011	Sj. Kotan	Dy.		ACC

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552256, Fax: 01977-552299, v



BOREHOLE LOG

Contract:				Client:			Borehole	e :		
EMG Pha	ase 2				SEGRO				В	H24
Contract Ref:	Start:	12.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:		Sheet:			
765514	End:	14.09.22		67.02	E:446273.4 N:324	520.3		5	of	11
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		Sample	s & Testing		Mech	anical	Log	ill & u- tion	ē				Depth	Mate
Depth (m)	No	Туре	Results	TCF (%)	SCR (%)	anical RQD (%)	If (mm	Backfill & Instru-mentation	Water		Description of Strata		(Thick ness)	Grap Lege
(m) 19.13-19.30 19.30-20.80 19.30-19.57	35	C C	Results	100	91	95	(mm	Ble Ble Ble Ble Ble Ble Ble Ble Ble Ble	A	17.93-17.9 17.97-18.0 black staining. Weak reddish interbedded wit GRADE II. Fractures: 80 occasional blac (MERCIA MUI 13.30-13 siltstone. (stratu. previous sheet 18-07-18 black staining 18.15-18.2 18.60-18.6 18.70-18 black staining 18.87-18 black staining 19.00 polished, occas 19.13-19.1 19.30 siltstone 19.77-19 infill <3mm 19.82-20.2 20.45-20.4 20.56-20 black staining.	17m: thinly laminated siltstone 10m: 8° undulating rough occurs brown MUDSTONE. Occase the weak to medium strong silts to the staining. DSTONE GROUP) 3.74m: medium strong fragium copied from 13.30m; 13.08m: 4° planar rough occurs 16m: 44° planar rough clean.	e: asional - sionally - ltstone rough, - rough, - asional - asional - calcite - can asional - casional - calcite - can asional - casional - casional - casional - calcite - can can casional - cas	20.80	Lege
												-		
Bor	ring F		and Water O	bserva Bore		10.		Chise	lling	g / Slow Progress	General I	Rema	rks	
Date 1	Time	Bore Dep	0	Diam (mı	eter	Wate Dept		From	\perp	To Duration (hh:mm)	1			
1											All dimensions in metres	Scale:	1:25	;
Method		ection p	nit + Pla			2000			┰╧╴	illed	Logged JAlton +	Checked		

2		Boring Pro	ogress and	Water Ob	servations		Chisel	ing / Slo	w Progress	General	Domorl	.	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remair	15	
,			'	'	(*****)	'							
)													
5													
										All dimensions in metres	Scale:	1:25	
	Method Used:	Cable Pe	ction pit + ercussion -	Plan Used		o 2000 Mar cchio GEC		Drilled By: (Chris Jobson	Logged JAlton + By: RStan	Checked By:		AGS

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STRUCTURAL SOILS

BOREHOLE LOG

Contract:					Client:			Boreho	le:		
	EMG Pha	se 2					SEGRO			В	H25
Contract Ref		Start:	12.09.22	Ground	d Level (m AOD):	N	ational Grid Co-ordinate:	Sheet:			
7	65514	End:	15.09.22		63.15		E:446409.0 N:324534.7		1	of	11
	Samples & Test	tina	Macha	nical I c	ng 🛪 🗉					Τ.,	

			Sample	s & Testing	N	Mecha	anical	Log	∞ , 5	ַן גַּן	Dep	th	Material
	Depth (m)	No	Туре	Results	TCR (%)	Mecha SCR (%)	RQD (%)	If (mm)	Backfii	Mater	Description of Strata (Thinnes	k	Graphic Legend
	0.00-0.00 0.00-0.10 0.05-0.05 0.10-0.10 0.10-0.40	1 3 2 4 6	D B ES D B	1xT+1xJ+1xV						727	TOPSOIL (0.4		\$\frac{1}{2} \cdot \frac{1}{2}
3	0.20-0.20	5 7	ES D	1xT+1xJ+1xV							Firm light orangish brown sandy gravelly CLAY. Sand is fine to medium. Gravel is angular to		0 0
	0.40-1.00	9 8	B ES	1xT+1xJ+1xV							subrounded fine to medium of mudstone.) -	• • • •
	1.00-1.00	10	ES	1xT+1xJ+1xV							Reddish brown slightly clayey gravelly medium to coarse SAND. Gravel is angular to subrounded		· · · · · · · · · · · · · · · · · · ·
)	1.20-1.20 1.20-1.65 1.20-1.65 1.20-1.70	11 12 13	D SPT DSPT B	N=15							fine to coarse of mudstone and sandstone. Stiff reddish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is angular and subangular fine to medium lithorelics of)	
	1.70	14	D								extremely weak mudstone and siltstone. Frequent pockets and lens (<10mm) of grey silty sand. GRADE IVa. (MERCIA MUDSTONE GROUP)		
	2.00 2.00-2.45 2.00-2.45 2.00-2.50	15 16 17	ES SPT DSPT B	N=19							[(1.8	D) .	
	2.50	18	D								-	•	
	3.00	19	ES								Very stiff reddish brown slightly sandy slightly) :	
	3.00-3.36	20	SPT DSPT	5,18/18,18,14 for 57mm							gravelly CLAY. Sand is fine and medium. Gravel is angular to subangular fine to coarse mudstone and siltstone lithorelics. GRADE IVa and verging) (O)	· · · · · ·
	3.00-3.50	21	В								towards GRADE III. (MERCIA MUDSTONE GROUP) 3.5)	
	3.50-5.00 3.50 3.50-3.79	22	D SPT	7,18/21,29			A				Extremely weak reddish brown thickly laminated MUDSTONE. GRADE II. Bedding fractures: Very closely spaced, rough, (0.4)		
	3.50-3.96	23	DSPT	for 72mm							undulating, with dark brown staining on surfaces. (MERCIA MUDSTONE GROUP) 3.9	5	
	4.25	25	С		87	21	0				Extremely weak reddish brown MUDSTONE. GRADE II. Fractures: Very closely spaced, randomly orientated, rough, undulating, dark brown staining on surfaces. (MERCIA MUDSTONE GROUP)		
		I							□.	4			

<u> </u>		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	rogress	Conoral	Remarks	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter	Water Depth	From	То	Duration (hh:mm)	General	Remarks	
20 - 00			Берш	Берит	(mm)	Берит	3.30	3.50	00:30	Position cleared using C Hand dug inspection pit		
g.												
2												
<u> </u>										All dimensions in metres	Scale: 1:25	
מו מכוניו	Method Used:	Cable Pe	tion pit +	Plan Used		o 2000 Mar cchio GEO		Drilled Chr i By:	s Jobson +	Logged DNeylon + By: JAlton	Checked By:	AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Soils Lid, Branch Office - Castleford: The Pottery Street, Castleford, West Yorkshire, WF10 1\overline{10}. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. | 11/12/22 - 10:44 | TC9 |

Rotary Cored



BOREHOLE LOG

Contract:				Client:		Borehol	e:		
EMG Pha	se 2				SEGRO			В	H25
Contract Ref:	Start:	12.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	15.09.22		63.15	E:446409.0 N:324534.7		2	of	11
0 1 0 7		T						$\overline{}$	

			Sample	s & Testing	N	Mecha	anical	Log	≅ - ig	<u></u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	Log If (mm)	Backfill & Instru-mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
/22 - 10:44 TC9	5.00-6.50				87	21	0				Extremely weak reddish brown MUDSTONE. GRADE II. Fractures: Very closely spaced, randomly orientated, rough, undulating, dark brown staining on surfaces. (MERCIA MUDSTONE GROUP) (stratum copied from 3.95m from previous sheet)	-(1.35)	
.uk, Email: ask@soils.co.uk. 11/12	- - - - - -				97	8	0				Stiff reddish brown slightly sandy gravelly CLAY with occasional fine to medium gravel sized pockets and lenses (<15mm) of greenish grey silt. Sand is fine to coarse and mudstone derived. Gravel is fine to medium angular to subangular mudstone and siltstone lithorelics. GRADE III. (MERCIA MUDSTONE GROUP) 5.75-5.90m: Extremely weak mudstone.	- (0.85) - (6.15	
5522 <u>9</u> 9, Web: www.soils.co	- - 6.35-6.45 - 6.50-8.00	26	С		X	*	X				Extremely weak reddish brown MUDSTONE. GRADE II. Bedding fractures: Closely spaced, rough, undulating. Fracture set 2: Very closely spaced, randomly orientated, rough, undulating, dark brown staining on surfaces. (MERCIA MUDSTONE GROUP)	-	
st Yorkshire, WF10 1/J. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 10:44 TC9	- - - - - -				87	64	58			1_1_	6.90-7.00m: Thinly cross laminated greenish grey siltstone.	(3.00)	
ord, West Yorkshire, WF1	- 7.84-8.00 - 8.00-9.50	27	С		*	 	X	-		Ţ		- - - -	
otteries, Pottery Street, Castleford, We	- - 8.60-8.70 -	28	С		100	59	53				8.70-8.85m: Thinly laminated greenish grey siltstone.	- - - -	

2	Boring Pr	ogress and	Water Ob	servations		Chisell	ing / Slow P	rogress	General	Domor	ko	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	NS	
3				()	'							
5												
5 5												
ź									All dimensions in metres	Scale:	1:25	
Method Used:	Method Inspection pit + Used: Dando 2000 I Used: Cable Percussion + Used: Comacchio C						Drilled Chri By:	s Jobson +	By: JAlton	Checked By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10.1NJ. Tel: 01977-552255, Fax: 01977-552299, Wet



BOREHOLE LOG

Contract:		Client:		Borehole):		
EMG Pha	se 2		SEGRO			В	H25
Contract Ref:	Start: 12.09.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End: 15.09.22	63.15	E:446409.0 N:324534.7		3	of	11
						_	

		Sample	s & Testing		Mech	anical	Log ∝	4 ' P	<u>~</u>	'				Depth	Mater
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	Log	Instrumentat	Water		De	escription of Strata		(Thick ness)	Grap Lege
9.50-11.00	29	O		100		53			<u></u>	siltston Extrem GRAD Beddin undula	e. lely weak E II. lg fractu ting, black	r: Thickly laminated greenish res: Closely spaced, restaining on surfaces.	,	9.15	
- - - - - 10.45-10.60 - -	30	С		100	56	33	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			orienta ∖stainin Very w SILTS	ted rough g on surfa <i>r</i> eak, loca TONE.	Very closely spaced ran planar fractures with dark ces. Ily medium strong, greenish STONE GROUP)	brown	10.40	X
_ _ 11.00-12.50 _ - -				X	X	X	•			clayey suspec	fine to	10m: Reddish brown sandy medium gravel of mud infilled bedding fractures. In depth: Extremely weak re	stone,	(1.90)	× × × × × × × × × × × × × × × × × × ×
- _ 11.60-11.85 - -	31	С		83	70	56	· · · · · · · · · · · · · · · · · · ·			brown	11.33-11 sandstone 2.10m: Ve	.368m: Extremely weak re b. erging towards medium stron	-	· · · · · · · · · · · · · · · ·	× × × × × × × × × × × × × × × × × × ×
12.50-14.00 12.50-12.58 - -		SPT	25/50 for 45mm	93	0	0	-			yery s gravelly size po sandy (MERO	d sandstor stiff reddis y CLAY w ockets and silt. GRAD CIA MUDS 2.55-12.65	ne. sh brown slightly sandy s ith frequent fine to medium lenses (<15mm) of greenisl	slightly gravel h grey	12.30	
- - 13.15-13.35 - -	32	С					•						-	•	
Вог	ring F		s and Water Ob	Boreh	nole	\A/-±	11	Chise	lling	/ Slow P		General F	Rema	rks	
Date 1	Γime	Bore Dep		Diam (mn	eter	Wate Dept		From		То	Duration (hh:mm)				
												All dimensions in metres	Scale:	1:25	
	able	ection p	sion+ Used	. –			Mark2 GEO 20		Dril By:		s Jobson +	Logged DNeylon +	Checke By:		A

	Boring Pr	ogress and	Water Ob	servations		Chisell	ing / Slow P	rogress	General	Domor	ko	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remai	NS	
8				(*****)	'							
										T		
) =									All dimensions in metres	Scale:	1:25	
Method Used:	Method Inspection pit + Used: Dando 2000 I Used: Cable Percussion + Used: Comacchio G						Drilled Chri By:	s Jobson +	By: JAİton	Checked By:		AGS



BOREHOLE LOG

Contract:		Client:		Borehole	e:		
EMG Pha	ise 2		SEGRO			В	H25
Contract Ref:	Start: 12.09.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End: 15.09.22	63.15	E:446409.0 N:324534.7		4	of	11
0 1 0 7						$\overline{}$	

	5 "		Sample	s & Testing	N	Mecha	anical		tio.	ē		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If Sagaran	Instru- mentation	water	Description of Strata	(Thick ness)	Graphic Legend
Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 10:44 TC9	14.00-15.50 - - - 14.25-14.45		С		93	0	0				Very stiff reddish brown slightly sandy slightly gravelly CLAY with frequent fine to medium gravel size pockets and lenses (<15mm) of greenish grey sandy silt. GRADE IVa. (MERCIA MUDSTONE GROUP) (stratum copied from 12.30m from previous sheet)	(2.50)	
ww.soils.co.uk, Email: ask@soi	-				103	5	0				Extremely weak reddish brown MUDSTONE with occasional fine to coarse gravel size pockets of greenish grey siltstone. GRADE II. Fractures: Closely spaced, randomly orientated, rough, undulating, brown staining on surfaces. (MERCIA MUDSTONE GROUP)	14.80	
977-552299, Web: w	15.50-17.00 . 15.85-16.10		С		X	*	*	• • • • • • • • • • • • • • • • • • • •				(1.65)	
el: 01977-552255, Fax: 01	- 13.63-10.10 - - -	34	0		103	70	42				Stiff reddish brown slightly sandy CLAY. Sand is	- - - - - 16.45	
st Yorkshire, WF10 1NJ. T	. 17.00-18.50				X	- X -	X				fine an mudstone derived. GRADE IVb. (MERCIA MUDSTONE GROUP) Very weak greenish grey fine to medium grained SANDSTONE very thinly interbedded with extremely weak reddish brown MUDSTONE. (MERCIA MUDSTONE GROUP) Extremely weak reddish brown MUDSTONE.	17.00	
s, Pottery Street, Castleford, Wea	17.28-17.45	35	С		93	68	47				GRADE II. (MERCIA MUDSTONE GROUP) Extremely weak greenish grey SILTSTONE thickly interlaminated with very weak fine to medium grained SANDSTONE. (MERCIA MUDSTONE GROUP) 17.45m: Lenses (<4mm) of reddish brown clay. Description on next sheet	17.25 (0.30)	M. F. F. M. M. M. M. M. M. M. M. M. M. M. M. M.

	Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow P	rogress	General	Domorl	10	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	15	
		,	<u>'</u>	(*****)	•							
`												
									All dimensions in metres	Scale:	1:25	
Method Used:							Drilled Chri By:	s Jobson +	By: JAIton	Checked By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web.



BOREHOLE LOG

Contract:			Client:				Borehole	e:			
EMG Pha	se 2						SEGRO			В	H25
Contract Ref:	Start:	12.09.22	Groun	d Level	(m AOI	D):	National Grid Co-ordinate:	Sheet:			
765514	765514 End: 15.09.22				15		E:446409.0 N:324534.7		5	of	11
										$\overline{}$	

	Depth		Sample	s & Testing	N	Mecha	anical	Log	& -' ië	±		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instru- mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
ık. 11/12/22 - 10:44 TC9	18.50-20.00		O		93	68	47				Extremely weak reddish brown MUDSTONE with occasional fine to coarse gravel size pockets of greenish grey siltstone. GRADE II. (MERCIA MUDSTONE GROUP) (stratum copied from 17.55m from previous sheet) 18.10-18.25m: Recovered as sandy gravel with trace thick interlaminae with greenish grey extremely weak siltstone. Suspected interlaminated zone, verging towards GRADE III.	(1.51)	
tteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22					100	30	0				Stiff reddish brown slightly sandy CLAY with occasional fine to medium gravel size pockets of greenish grey silt. GRADE IVb. (MERCIA MUDSTONE GROUP)	- - - -(0.54)	
www.soils.co.uk,											Very weak greenish grey SILTSTONE. (MERCIA MUDSTONE GROUP) 19.60-19.75m: 85°, rough undulating fractures.	(0.40)	× × × × × × × × × × × × × × × × × × ×
7-552299, Web:	-						V		.*.□*.°		19.85-19.90m: Band of greenish grey sandy silt. Borehole terminated at 20.00m depth.	20.00	× × × ×
2255, Fax: 0197												- - -	
J. Tel: 01977-55	-											- -	
kshire, WF10 1N												-	
eford, West York												- - -	
tery Street, Castl	-											- - -	
eries, Pot												-	

	Boring	Progress and	Water Ob	servations		Chisell	ing / Slow F	rogress	General	Domorl	′ 0	
Dat	e Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remair	(5	
				()								
,												
										1		
									All dimensions in metres	Scale:	1:25	
Metho Used:	Cable	ection pit + Percussion	Plan Use		o 2000 Mar icchio GEC		Drilled Chr i By:	s Jobson +	By: JAIton	Checked By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1N. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:44 | TC9 |



BOREHOLE LOG

Contract:				Client:		Borehole	e:		
EMG Pha	se 2				SEGRO			В	H26
Contract Ref:	Start:	09.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	20.09.22		66.17	E:446600.8 N:324651.0		1	of	10

			Sample	s & Testing	N	/lecha	anical	Log	≣	<u></u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill	Water	Description of Strata	(Thick ness)	Graphic Legend
	0.00 0.10 0.10-0.40 0.20	1 2 3 101	D D B ES								TOPSOIL Stiff reddish brown sandy CLAY with occasional greenish grey pockets (<2mm) of silt. Sand is fine to coarse.	0.10	
11/12/22 - 10:45 TC9	0.40 0.40-1.00 0.50	4 5 102	D B ES								(MERCIA MUDSTONE GROUP)	- - - -	
Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 10:45 TC9	1.00 1.00 1.00-1.20 1.20-1.65 1.20-1.70	103 6 7 8 9	ES D B SPT DSPT B	N=25								_ - [(2.40) -	
www.soils.co.t	1.70	10	D									- -	
1977-552299, Web: v	2.00 2.00-2.45	104 11	ES UT	150 blows 78% recovery								- - -	
1977-552255, Fax: 0	2.50 2.50-3.00	12 13	D B								Stiff reddish brown and greenish grey slightly gravelly sandy CLAY, with abundant greenish grey pockets (<15mm) of silt. Sand is fine to coarse. Gravel is subangular fine to coarse of mudstone and siltstone.	2.50	
ire, WF10 1NJ. Tel: 0	3.00-3.45 3.00-3.45 3.00-3.50	14 15	SPT DSPT B	N=25							(MERCIA MUDSTONE GROUP)	- - -	
	3.50	16	D								3.50-4.50m: Dark reddish brown.	_(2.00) - - -	
Potteries, Pottery Street, Castleford, West	4.00-4.45	17 18	UT B	150 blows								- - - - 4.50	
Potterie												4.50	

ш												
The		Boring Pr	rogress and	Water Ob	servations		Chisel	ling / Slow F	Progress	Canaral	Damarka	
Castleford:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration	General	Remarks	•
astle	L	111110	Depth	Depth	(mm)	Depth]		(hh:mm)	1 Position cleared using C	AT and Conny	
1	14/09/22	08:00	5.00	5.00	114	Dry	4.80	5.00	00:30	1. Position cleared using C. 2. Hand dug inspection pit		.
ils Ltd, Branch Office	14/09/22	17:00	21.00	5.00	114	Dry				2. Hard dug inspession pic		
al Soils				1			il			All dimensions in metres	Scale: 1:	25
ructural	Method Used		Percussion -	+ Plan		ando 3000	I	Drilled By:	???	Logged DNartey +	Checked By:	7000 1

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1N. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:45 | TC9 |

BOREHOLE LOG

EMG Phase 2 SEGRO		ы	
		ы	H26
Contract Ref: Start: 09.09.22 Ground Level (m AOD): National Grid Co-ordinate: Sheet	:		
765514 End: 20.09.22 66.17 E:446600.8 N:324651.0	2	of	10

							1						
			Sample	s & Testing	l n	Mecha	anical	Log	_			Depth	Material
	Depth (m)	No	Туре	Results			RQD		Backfill	Water	Description of Strata	(Thick ness)	Graphic Legend
	4.50 4.50-4.85	19	D SPT	8,14/28,22,51 for 50mm					/// /// ///		Very stiff reddish brown slightly sandy slightly gravelly CLAY. Sand is fine and medium and mudstone derive. Gravel is angular and	(0.50)	
_ 	4.50-4.95 4.50-5.00	20 21	DSPT B	101 00111111							subangular fine and medium extremely weak mudstone lithorelics. Occasional fine and medium gravel size pockets of grey silty sand and trace	5.00	
- 10.45	5.00-6.00 5.00-5.17		SPT	19,6/39,11 for 8mm							evidence of bedding. GRADE IVa. (MERCIA MUDSTONE GROUP) Extremely weak reddish brown MUDSTONE with	(0.50)	0 0
11112/24				TOT CITIENT					///. ///. ///. ///.		frequent fine gravel size pockets and laminae (<15mm) of greenish grey siltstone, recovered as angular fragments with matrix of clayey sand.	- ′	
olls.co.uk.	5.50	23	D		85 	8	0		///. ///. ///.		(MĚRCIA MUDSTONE GROUP) Extremely weak reddish brown MUDSTONE. GRADE II.	5.50	
an. donwo	•										Bedding fractures: Very closely spaced, smooth, undulating, black staining. Fracture set 2: Randomly orientated, very closely		
O.UR, EIIIG	6.00-7.50				*	X	*				spaced, smooth, planar, black staining on surfaces. (MERCIA MUDSTONE GROUP)	_(1.00)	
/WW.SUIIS.u	. 6.35	24	D								(MERCONTINES FOR ESTABLE)		
٠ د									///			6.50	
TORSIIILE, WT 10 1NO. 1EL. 01977-50242505, FAX. 01977-5024299, WED. WWW.SOIIS.CO.UR, EINBIII. ASK@SOIIS.CO.UR. 11712/22 - 10.49 10.84					87	38	0				Extremely weak reddish brown MUDSTONE recovered as angular fragments with matrix of clayey sand. With gravel size fragments of greenish grey siltstone. GRADE II. (MERCIA MUDSTONE GROUP) 6.90-7.10m: Extremely weak siltstone.	(0.60)	
7-55225, F8											Extremely weak reddish brown MUDSTONE with fine to medium gravel size pockets of greenish grey siltstone. GRADE II.	7.10	
J. 161. 0197	7.50-9.00				X	X	X				Bedding fractures: Closely spaced, smooth, planar, black staining on surfaces. Fracture set 2: Randomly orientated, smooth,	-	
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	·										planar. (MERCIA MUDSTONE GROUP) 7.55-7.60m: Greenish grey siltstone.	-	
_	7.90	25	D									_	
meries, Pottery Street, Castleford, West					93	41	29				8.50-8.60m: Recovered as angular gravel, suspected bedding fracture.	-(2.85)	
,	-											-	

2		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	Progress	General	Domorl	.	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	(5	
3													
5													
2										All dimensions in metres	Scale:	1:25	
)	Method Used:	Danas Co				ando 3000 Inimog 405		Drilled By:	???	Logged DNartey + By: RStan	Checked By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:45 | TC9 |



BOREHOLE LOG

Contract:				Client:		Borehole	э:		
EMG Pha	se 2				SEGRO			В	H26
Contract Ref:	Start:	09.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	20.09.22		66.17	E:446600.8 N:324651.0		3	of	10

ĺ			Samples	& Testing	N	/lecha	nica	l Log	E	<u></u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR	SCR	RQE) If	Backfill	Water	Description of Strata	(Thick ness)	Graphic Legend
	9.00-10.50	140	Турс	TOSUIS	(%) A	<u>(%)</u>	(%)	(mm)	///		Extremely weak reddish brown MUDSTONE with	ness)	Legena
k@soils.co.uk. 11/12/22 - 10:45 TC9	- 9.25 	26	D		93	41	29				fine to medium gravel size pockets of greenish grey siltstone. GRADE II. Bedding fractures: Closely spaced, smooth, planar, black staining on surfaces. Fracture set 2: Randomly orientated, smooth, planar. (MERCIA MUDSTONE GROUP) (stratum copied from 7.10m from previous sheet) 9.60-9.65m: Recovered as angular gravel, suspected bedding fracture 9.85-9.90m: Recovered as angular gravel, suspected bedding fracture. Extremely weak reddish brown MUDSTONE thinly interbedded with greenish grey SILTSTONE. GRADE II.	- - - - - - - - - - - - - - - - - - -	× × × × × × × × × × × × × × × × × × ×
ail: as	-										Fractures: Randomly orientated, smooth, planar, frequent black staining on surfaces.	_	
Ema	10 50 12 00				<u> </u>	-	<u> </u>	_	///		(MÉRCIA MUDSTONE GROUP)	10.50	\times \times \times
Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk, 11/12/22 - 10:45 TC9	10.50-12.00	27	D		100	67	40				Extremely weak reddish brown MUDSTONE with occasional fine to medium gravel size pockets of greenish grey siltstone. Bedding fractures: Medium spaced, smooth, planar, with black staining on surfaces. Fracture set 2: Randomly orientated, smooth, planar, with black staining on surfaces. (MERCIA MUDSTONE GROUP)	- - - -(1.10) - - -	
Fax	-											11.60	
rel: 01977-552255	11.70-11.90		С		Y	<u> </u>	<u> </u>				Extremely weak greenish grey thinly to thickly laminated SANDSTONE. Fine gravel size pockets and occasional laminae of brown coloured carbonate minerals and siltstone. GRADE II. (MERCIA MUDSTONE GROUP)	(0.55)	
Z.	12.00-13.50				1	Î	Î					12.15	
st Yorkshire, WF10 1	12.20 - -	29	D								Extremely weak reddish brown MUDSTONE thinly interbedded with greenish grey SILTSTONE. GRADE I. Beddig fractures: Very closely spaced, rough, undulating. (MERCIA MUDSTONE GROUP)	(0.50)	× × × × × × × ×
ss, Pottery Street, Castleford, Wes	- - 13.00-13.15 - -	30	С		90	63	47				Weak thinly cross laminated greenish grey SANDSTONE. (MERCIA MUDSTONE GROUP)13.00m: 60° fracture.	- - - - (0.95)	
otterie					₩	_ ♥	<u> </u>		[///				

		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	Progress	General	Domork	' 0	
С	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remair		
			·	·		·							
										All dimensions in metres	Scale:	1:25	
	Method Cable Percussion + Plant Dando 300 Used: Used: Unimog 4				ando 3000 [.] Inimog 405		Drilled By:	???	Logged DNartey + By: RStan	Checked By:		AGS	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1N. Tel: 01977-552265, Fax: 01977-552299, Wet



BOREHOLE LOG

Contract:				Client:				Borehol	e:		
EMG Pha	se 2						SEGRO			В	H26
Contract Ref:	Start:	09.09.22	Groun	d Level (m A	AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	20.09.22		66.17			E:446600.8 N:324651.0		4	of	10

ſ			Samples	& Testing		Mecha	anical	Log	=	<u>_</u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill	Water	Description of Strata	(Thick ness)	
10.10.10.10.10.10.10.10.10.10.10.10.10.1	13.50-15.00 13.75-14.10		С		100	80	73				Extremely weak reddish brown MUDSTONE with occasional fine to medium gravel size pockets of greenish grey siltstone. GRADE II. (MERCIA MUDSTONE GROUP)	13.60	
ian: ask@sons.co.ak.	14.75	32	D								Very stiff greenish grey sandy SILT. Sand is fine and siltstone derived. GRADE IVa. (MERCIA MUDSTONE GROUP)	14.60 (0.40)	* · × · × · × · × · × · × · × · × · × ·
. www.soils.co.dk,	15.00-16.50 15.30	33	D		X	 	i i	-			Very stiff reddish brown slightly sandy slightly gravelly CLAY. Sand is fine to medium and mudstone. GRADE IVa. (MERCIA MUDSTONE GROUP)	(0.50)	× × × 0 · · · · · · · · · · · · · · · ·
22500, 1 dA: 0101, 1005200, well	-				87	60	37				Extremely weak reddish brown MUDSTONE with occasional fine to medium gravel size pockets of greenish grey siltstone. GRADE II. (MERCIA MUDSTONE GROUP) 15.85m: 35°, smooth planar fracture, infilled with sandy clay. 16.00-16.05m: Thinly cross laminated siltstone.	-	
	16.30-16.50 16.50-18.00		С		*		¥	-				(2.10)	
ones, constant and second and sec	- 17.05-17.20	35	С		93	63	60					17.60	
marica, i omary or											Description on next sheet	-	× × × × × × × × × × × ×

-													
_		Boring Pro	ogress and	Water	Observation	S	Chisel	ling / Slow F	Progress	Caparal	Domorl	' 0	
5	Date	Time	Borehole	Casin	g Borehole Diamete		From	То	Duration	General	Reman	15	
2014	Date	Tillic	Depth	Depth	n (mm)	Depth	1 10111	10	(hh:mm)				
j													
2													
5													
5													
ĵ													
5													
) =										All dimensions in metres	Scale:	1:25	
Ś	Method	24					+	Drilled	???	Logged DNartey +	Checked		
3	Used:	Rota	rv Cored	l U	sed:	Unimog 40!	5	Bv:		Bv: RStan	Bv:		MAS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Soils Lid, Branch Office - Castleford: The Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552295, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. | 11/12/22 - 10:45 | TC9 |

BOREHOLE LOG

Contract:		Client:		Borehol	e:		
EMG Ph	ase 2		SEGRO			В	H26
Contract Ref:	Start: 09.09.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End: 20.09.22	66.17	E:446600.8 N:324651.0		5	of	10

			Sample	s & Testing	N	Mecha	anical	Log	I≣	<u>~</u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	lf (mm)	Backfill	Water	Description of Strata	(Thick ness)	Graphic Legend
2/22 - 10:45 TC9	18.00-19.50	36	D		90	7					Extremely weak thinly to thickly laminated reddish brown MUDSTONE, thinly interbedded with extremely weak thinly to thickly cross laminated greenish grey SILTSTONE. GRADE II. (MERCIA MUDSTONE GROUP) (stratum copied from 17.60m from previous sheet) 18.00-18.90m: Randomly orientated rough planar fractures.	(1.30)	X X X X X X X X X X X X X X X X X X X
Email: ask@soils.co.uk. 11/13	- - - -										Extremely weak reddish brown MUDSTONE with frequent fine to medium gravel size pockets of greenish grey siltstone. (MERCIA MUDSTONE GROUP) 18.90-19.30m: Randomly orientated planar fractures.	18.90	
299, Web: www.soils.co.uk, E	19.50-21.00 19.50-19.90 - - - -		С									20.20	
11977-552255, Fax: 01977-552					80	73	60				Extremely weak thinly to thickly cross laminated greenish grey SILTSTONE with closely spaced laminae (<15mm) of sandstone. (MERCIA MUDSTONE GROUP)	(0.80)	X X X X X X X X X X X X X X X X X X X
Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 10:45 TC9					•	V						21.00	× × × × × × × × × × × × × × × × × × ×

2		Boring Pro	ogress and	Water Ob	servations		Chiselli	ng / Slow F	Progress	General	Domor	ko	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	KS ———	
Id, Dialioli Cilico - Ca			-	•	()								
idial colls i	Method	Cable P	ercussion -	+ Plan	t Da	ando 3000	+	Drilled	???	All dimensions in metres Logged DNartey +	Scale:	1:25	
3	Used:	Rota	ry Cored	Use	d: Ū	Jnimog 405	;	By:		By: RStan	By:		AGS



BOREHOLE LOG

Contract:				Client:		Borehole	e:		
EMG Pha	se 2				SEGRO			В	H27
Contract Ref:	Start:	12.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	14.09.22		59.09	E:446622.8 N:324516.7		1	of	17

	T	Samnle	s & Testing	N	/lech:	anical	Log ∞ , i	5					h .
Depth (m)	No	Туре	Results				= ⋾;	Water		scription	of Strata	Dep (Thickness	:k G
0.10-0.10	101	ES	1xT+1xJ+1xV					7	TOPSOIL			(0.3	$(\frac{1}{2},\frac{1}{2},\frac{1}{2})$
0.10-0.10	101	ES	IXI+IXJ+IXV									0.3	F.
- _ 0.40-0.40 - - -	102	ES	1xT+1xJ+1xV					ለ የ	Firm to stiff reddis CLAY. Sand is fine subrounded fine to (MERCIA MUDST	e to med coarse	ium. Gravel is and of mudstone.	ravelly	
-												1.2) - -
1.20-2.20 1.20-1.65 1.20-1.20	1	SPT DSPT	N=9	100	0	0			Very stiff brown Sand is fine to Gravel is angular mudstone and randomly orientate on surfaces. GRAI (MERCIA MUDST	coarse r to sub siltstone ed fractu DE IVa.	and mudstone do pangular fine to e lithorelics. Froures with black s	erived. coarse - equent .	
1.90-2.00 2.00-2.10 2.10-2.20 2.20-3.00 2.20-2.53	103 4 5	ES D C	6,8/12,21,17 for 30mm	X	+	X						(1.5	5)
2.80-2.90	106 7	ES D		113	0	0			Very stiff reddish CLAY. Sand is derived. Gravel is coarse extremely	fine to angula	coarse and mu ir to subangular	dstone fine to	
3.00-3.40 3.10-3.20 3.40-4.90	8	D		138	23	0		· · · · · · · · · · · · · · · · · · ·	occasional very we lll. Bedding: Extremel rough, undulating, Discontinuities: orientated. (MERCIA MUDST	eak siltst ly closely black st Tight to	tone lithorelics . G y to very closely s aining. o very tight, ra	paced,	5)
- - - -				77	35	15	* • • • • • • • • • • • • • • • • • • •		Description on ne	xt sheet		4.2	
4.30-4.40	9	D										[
		Progress	s and Water Obs	servati Boreh Diame	ole	Wate	er		Gen	neral	Remarks		
Date	Time	De		(mm	1)	Dept	— II 1 P∩	sition	cleared using CAT an	nd Gennv	<u>'</u> .		
13/09/22 14/09/22		4.9	I I	N/F 114		3.90 2.90	∥2 Ha	nd du	ig inspection pit to 1.20				
NA-4' '									dimensions in metres		Scale:	1:25	1
Method	Insp	ection p	oit + Plant oling + Used					Dr By	illed ??? L	Logged By:	DNeylon +	Checked By:	

	Boring Pro	ogress and	Water Ob	servations		
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	
13/09/22 14/09/22		4.90 22.80	None None	N/R 114	3.90 2.90	•
						-

General Remarks

Method	Inspec	tion pit +	
Used:		sampling	



BOREHOLE LOG

Contract:					Client:			Borehole	e:		
	EMG Pha	se 2				SEGI	RO			В	H27
Contract Ref	:	Start:	12.09.22	Ground	d Level (m AOD):	National G	rid Co-ordinate:	Sheet:			
7	65514	End:	14.09.22		59.09	E:446	622.8 N:324516.7		2	of	17
	OI 0 T4										

			Sample	s & Testing	l N	Mecha	anical	Log	∞ , 5			Depth	Material
	Depth				_	SCR	RQD	If	Backfill & Instru- mentation	Water	Description of Strata	(Thick	Graphic
	(m)	No	Туре	Results	(%)	(%)	(%)	(mm)	Ba r me	>	•	ness)	Legend
	- - 4.65-4.80	10	С		77	35					Very weak reddish brown MUDSTONE with medium spaced laminae and very thin beds (<40mm) of weak greenish grey siltstone.	-	
	-				77	33	15				(MERCIA MUDSTONE GROUP)	-	
_ 83	4.00.6.20				+		X				4.20-5.10m: Very closely spaced smooth planar bedding fractures with frequent black	-	
2 I	4.90-6.30 -4.90-5.04		SPT	17,8/50	[Ī	▎▐				staining and extremely closely spaced smooth	_	
10:4	-			for 50mm							planar fractures, 60° and frequently stained dark	-	
/22 -	-										brown and black on fracture surfaces.(stratum copied from 4.20m from previous sheet)	(2.15)	
1/12	=										5.10-5.30m: Slightly sandy slightly gravelly	-	
<u>국</u>	-										clay. Below 5.30m: Bedding: Very closely spaced,		
	-				89	46	0				smooth, planar. Fractures: 60°, closely spaced,	-	
soils)	-				09	40					planar. GRADE II.	-	
sk@	-											-	
jail:	5.90-6.00	11	С									-	
Ç. En	_ 0.00 0.00	' '										_	
00.ul	- C 15	40	_									-	
soils.	- 6.15	12	D		↓	V	↓						
WW.	6.30-7.80	12	_		A	A	^				6.30-6.45m: Frequent thin laminae (<5mm) of	6.35	
eb: ×	- 6.35 - 6.40-6.55	13 14	D								\text{\cream sandstone.} \text{\text{Weak greenish grey fine grained SANDSTONE}}	-	
. ≱ . 6	-										with fine to medium gravel size pockets of very	(0.60)	
5229	-										weak siltstone. GRADE II.	-	
77-5	-										Bedding fractures: Closely spaced, smooth, undulating.	-	
. 019	-										(MERCIA MUDSTONE GROUP)	6.95	:::::::::::::::::::::::::::::::::::::::
Fax	_				90	79	13				6.45-6.60m: Rough undulating fracture. 6.65m: Extremely weak siltstone.	_	
2255,	-					1	1				Below 6.70m: reddish brown (transition zone)		
7-55	_										and very weak with lenses of very weak mudstone.	-	
197	_										Very weak reddish brown MUDSTONE with frequent fine gravel size pockets of greenish grey	-	
<u>[]</u>	-										siltstone with black specs. GRADE II.	- , , , , , , ,	
ΪΞ	-										Bedding fractures: Closely spaced, smooth, planar, brown staining.	(1.30)	
101	-				↓						Fracture set 2: 80°, rough, undulating.	_	
. ø	7.80-9.30				—	 	A .	1			(MERCIA MUDSTONE GROUP)	-	
kshir	_											-	
Ş	_												
West	-											8.25	
o d	_										Extremely weak greenish grey SILTSTONE.	- 0.20	\times \times \times \times
astlef	-				100	100	73				Fractures: Closely spaced, 20°, undulating,	-	
it Co	-					1					smooth. (MERCIA MUDSTONE GROUP)	-	\times \times \times \times
Stree	8.60-8.80	15	С									- (0.75)	\times \times \times \times
ttery												-	× × × × × × × × × × × ×
eries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 10:45 TC9	-											-	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
eries	8.90	16	D									9.00	\times \times \times \times

		Boring Pro	ogress and	Water O	oservations				<u> </u>	noral	Domarka		
LM, Dialivii Ollivo - Casaciorio	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth			Ge	nerai	Remarks		
							,	All dimensio	ns in metre	s	Scale:	1:25	
) [Method Used:	Dynamic	tion pit +	Plai Use		cchio GEO	205	Drilled By:	???	Logged By:	DNeylon + JAlton	Checked By:	AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10.1NJ. Tel: 01977-552255, Fax: 01977-552299, Wet

(3.30)

STRUCTURAL SOILS

Contract:							Cli	ent:				Boreho	ole:	
		EMG	Phase 2								SEGRO			BH27
Contract Ref			Start:	12.0	9.22	Grou	nd Le	evel (m	AOD)):	National Grid Co-ordinate:	Sheet:		
7	65	514	End:	14.0	9.22		į	59.09			E:446622.8 N:324516.7		3	of 17
		Samples	s & Testing	ı	Mech	anical l	_og	∞ ⁻ ie	<u></u>				Depth	Mater
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instru- mentation	Water		Description of Strata		(Thick ness)	
				100 V	100 V					occa silts	remely weak reddish brown MUDSTO asional bands up to 15mm of green tone and closely to very closely both planar tight bedding fractures w	nish grey spaced	(0.35)	
9.30-10.80 9.50-9.75	17	С								dark (ME stair Wea Bed roug	ser staining. RCIA MUDSTONE GROUP) 9.15m: 80° fracture, with slight daning along surface. GRADE II. ak greenish grey SANDSTONE. Iding fractures: Closely to medium gh, undulating, infilled with silt. ERCIA MUDSTONE GROUP)	rk brown	9.35	
				100	71	63				muc thin mate	10.00-10.15m: Extremely weak reddidstone. Below 10.15m: Interbedded with silts laminae (<2mm) of slightly harder cerial. Temely weak, locally very weak, reddi	tone and arbonate	10.40	
10.50 10.80-12.30	18	D		X		X				MUI size II. Bed (ME	DSTONE with frequent fine to media pockets of greenish grey sandy silt. Iding fractures: Closely spaced, rough ERCIA MUDSTONE GROUP) . 10.80-11.00m: Weak brown sands to closely spaced bedding fractures with	m gravel GRADE planar. tone with	-	

- 11.85	20	D					
-							
_					١,	,	12.15-12.55m: Very weak light greenish grey siltstone becoming extremely weak and darker in
12.30-13.80			1	A	1	1	colour from 12.35m depth. 12.30m; 70° smooth planar fracture.

80 | 67 | 20

100 | 35 | 29

. . . 12.85-13.00m: Extremely weak greenish grey siltstone with yellow staining along bedding.

	Bor	ing Pro	gress and	Water Ob	servations						Damadra		
Da	ate T	ime	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth			Ge	nerai	Remarks		
}													
							,	All dimension	ons in metre	s	Scale:	1:25	
Meth Used		namic	tion pit + sampling	+ Plan Used	_	cchio GEC	205	Drilled By:	???	Logged By:	DNeylon + JAlton	Checked By:	AGS

11.65-11.85 19

12.90-13.00 21

13.40

С

С

D

22



Contract:								CI	ient:				Boreho	le:	
		EMG	Pha	se 2								SEGRO			BH27
Contract Ref	:			Start:	12.09	9.22	Grou	ınd L	evel (m	AOD):	National Grid Co-ordinate:	Sheet:		
7	655	514		End:	14.09	9.22		,	59.09)		E:446622.8 N:324516.7		4	of 17
		Samples	& Tes	ting	1	Лесhа	anical	Log	∞ . 5	_				Depth	Materia
Depth (m)	No	Туре	Res	sults	TCR (%)	SCR (%)	RQD (%)	If (mm	Backfill & Instru-	Water		Description of Strata		(Thick ness)	1
					100	35	29							13.70	
13.80-15.30					100	35	29				integree are the Bec	remely weak reddish brown MUDSTOI rbedded with extremely weak to verenish grey SILTSTONE. Often siltstofformed as lenses and only partially obcore. GRADE II. Iding fractures: Closely spaced, roughled with red clay. ERCIA MUDSTONE GROUP)	ry weak ne beds served in		× × × × × × × × × × × × × × × × × × ×
14.70-14.90	23	С			100	37	9				•	15.00-15.20m: Siltstone with laminae	of cream	- - - - (2.50)	× × × × × × × × × × × × × × × × × × ×
15.10 15.30-16.80	24	D			***************************************	*	*				colo	oured calcium carbonate and sec osit features observed.		- - -	× × × × × × × × × × × × × × × × × × ×
15.65-16.10 16.10	25	C D			100	46	38			7	lam whi Ext free	. 16.10-16.20m: Weak reddish brown inae of cream coloured calcium coch is harder than the host mudstone. Temely weak reddish brown MUDSTO juent fine to medium gravel size poenish grey sandy silt. GRADE II.	arbonate for the second	16.20	× × × × × × × × × × × × × × × × × × ×
16.80-18.30					X	*	*				Bec	lding fractures: Medium spaced,	smooth,	(1.00)	
17.20-17.40 17.50	27	C D			87	83	70				lam (<2 the Bed roug (ME	remely weak greenish grey thinly to inated SILTSTONE. Frequent thin mm) of calcium carbonate slightly has surrounding matrix. Iding fractures: Closely spaced, urigh, infilled with reddish brown clay. ERCIA MUDSTONE GROUP)	laminae der than	(0.55)	× × × × × × × × × × × × × × × × × × ×

Method Used:	I Dvi	nspe	ction pit +	Plai g + Use		macchio	Drilled ??? Logged DNeylon +	Checked By:	
							All dimensions in metres Scale:	:25	
Date		ing Pr	Borehole Depth	d Water Ole Casing Depth	Boreho Diamet (mm)	le Wat	General Remarks		
-									
17.50		28	D				Bedding fractures: Closely spaced, undula rough, infilled with reddish brown clay. (MERCIA MUDSTONE GROUP) Description on next sheet	17.75	× × × ×
17.20-17	7.40	27	С		87	83 70	Extremely weak greenish grey thinly to the laminated SILTSTONE. Frequent thin land (<2mm) of calcium carbonate slightly harder the surrounding matrix.	ickly ninae	× × ×
16.80 - 18 -	5.30							17.20	
40.00.40	200						greenish grey sandy silt. GŘADE II. Bedding fractures: Medium spaced, sm planar. (MERCIA MUDSTONE GROUP)		
							laminae of cream coloured calcium carbo which is harder than the host mudstone. Extremely weak reddish brown MUDSTONE frequent fine to medium gravel size pocket	with	
16.10		26	D		100	46 38	16.10-16.20m: Weak reddish brown with		×
· 15.65-16 ·	6.10	25	С					-	×
15.30-16	6.80				*	* *	deposit features observed.	-	×××
- - 15.10		24	D				15.00-15.20m: Siltstone with laminae of c		×
- 14.70-14	4.90	23	С		100	37 9		-	×××
- - -							infilled with red clay. (MERCIA MUDSTONE GROUP)	-	× × ×
- - -	5.30						greenish grey SILTSTONÉ. Often siltstone are formed as lenses and only partially observed the core. GRADE II. Bedding fractures: Closely spaced, rough, placed in the core.	ed in _	××

BUDERULE I

Op												BUKE	HOL		.UG
Contract:								Clie	ent:				Boreh	ole:	
		EMC	G Pha	se 2								SEGRO			BH27
Contract Re	ef:			Start:	12.0	9.22	Grour	nd Le	vel (m	AOE)):	National Grid Co-ordinate:	Sheet		
	765	514		End:	14.0	9.22		5	9.09			E:446622.8 N:324516.	7	5	of 17
Depth (m)	No	Sample Type		ting sults	_	Mecha SCR (%)	RQD (%)	_og If (mm)	Backfill & Instru- mentation	Water		Description of Strata		Depth (Thick ness)	Material Graphic Legend
-					87	83	70 V				frec wea	remely weak reddish brown MUDS quent pockets and lenses (<15mm) of ak greenish grey siltstone. GRADE II	f extremely	(1.15)	

(m)	No	Туре	Results	ICH (%)	(%)	RQD (%)	S to the left The strict (Thick ness)		
18.30-19.80				87	83	70	Extremely weak reddish brown MUDSTONE with frequent pockets and lenses (<15mm) of extremely weak greenish grey siltstone. GRADE II. (MERCIA MUDSTONE GROUP) (stratum copied from 17.75m from previous sheet 18.30-18.60m: thinly interbedded (<60mm with greenish grey siltstone.	(1.15)	
							AZCL	18.90	
-				77	33	19	(MERCIA MUDSTONE GROUP)	(0.30)	Α
19.50 19.80-21.30	29	D		<u> </u>	X		Extremely weak reddish brown MUDSTONE with frequent fine gravel size pockets of greenish green sandy silt. GRADE II. (MERCIA MUDSTONE GROUP)	19.20	
20.40-20.60	30	С		97	41	41		(1.90)	
21.30-22.80				_\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	 	 	Very weak reddish brown MUDSTONE with closely to very closely spaced, up to 40mm, bu generally 5mm to 20mm, of crystalised gypsum generally parallel with bedding. GRADE I. (MERCIA MUDSTONE GROUP)	:	
21.85-22.20 -	31	С		83	83	63		-	
Во	ring F		and Water Ob				General Remarks		
Date 1	Time	Boreh Dep		Bore Diam (mi	neter	Wate Dept	Ocholai Nemaks		
							All dimensions in metres Scale: 1:25		
Method	Insp	ection pi	t + Plar	ıt			Drilled ??? Logged DNeylon + Chec	ked	

_														
<u> </u>		Boring Pr	ogress and	Wate	r Obs	servations				Co	noral	Domorko		
nelola.	Date	Time	Borehole Depth	Casi	"ig	Borehole Diameter	Water Depth			Ge	nerai	Remarks		
Ş			Берит	Dep	Ju 1	(mm)	Берит							
2														
2														
ב פ														
2 -														
50									All dimensi	ons in metre	s	Scale:	1:25	
ructure	Method Used:		ction pit +		Plant Used:		cchio GFC	205	Drilled Bv:	???	Logged Bv:	DNeylon +	Checked Bv:	MGS

BOREHOLE LOG

Contract:				Client:			Borehole	e:		
EMG Pha	se 2					SEGRO			BH	127
Contract Ref:	Start:	12.09.22	Groun	nd Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	14.09.22		59.09		E:446622.8 N:324516.7		6	of	17
				_						

			Samples	& Testing		/looba	nicol	Log ox E				
	Depth (m)	No		Results		Mecha SCR (%)	RQD		Water	Description of Strata	Depth (Thick ness)	Material Graphic Legend
1651 64:01	22.80-24.30				83	83	63	(11111)		Very weak reddish brown MUDSTONE with closely to very closely spaced, up to 40mm, but generally 5mm to 20mm, of crystalised gypsum, generally parallel with bedding. GRADE I. (MERCIA MUDSTONE GROUP) (stratum copied from 21.10m from previous sheet)	-	
TOTAL THE TANK TO	_ - _ 23.50-23.80 - -	32	С		100	70	61				- - - -	
		33	С		X	X	*				- - - -	
	- - - - -				97	97	97				(8.20)	
	- - - _ 25.80-27.30 - -				X	*	X				- - - -	
in the same because from a financial control of the same from the same f	-				100	100	100			26.30-26.50m: Extremely weak greenish grey siltstone.	- - - -	

	Boring Pr	ogress and	Water Ob	servations				Co	noral	Remarks		
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth			<u> </u>	IICIAI	Remarks		
				()								
							All dimensio	ns in metre	S	Scale:	1:25	
Method Used:	Dynamic	tion pit +	+ Plan	_	cchio GEC	205	Drilled By:	???	Logged By:	DNeylon + JAlton	Checked By:	AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web.

BOREHOLE LOG

Contract:							Clier	nt:			Boreho	le:	
		EMG	Phase 2							SEGRO			BH27
Contract Ref			Start:	12.09	9.22	Grour	nd Lev	el (m AOD):	National Grid Co-ordinate:	Sheet:		
7	655	514	End:	14.09	9.22		59	9.09		E:446622.8 N:324516.7		7	of 17
		Samples 8	& Testing	N	/lecha	anical L	_og <u>≪</u>	i digit				Depth	Materia
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If Some	Instru- mentatio Water		Description of Strata		(Thick ness)	Graphic Legend
27.00-27.30 27.30-28.80 27.50	35	С		100	777				clos ger ger (Mil (str	y weak reddish brown MUDSTON sely to very closely spaced, up to 40r lerally 5mm to 20mm, of crystalised gerally parallel with bedding. GRADE I. ERCIA MUDSTONE GROUP) atum copied from 21.10m from previous. 27.30-27.90m: Thinly laminate assional siltstone laminae (<5mm).	nm, but ypsum, s sheet) ad with	- - - - - - - - - -	
28.80-30.30				*	*	*			We	ak greenish grey thinly to thickly la	minated	29.30	×××
29.75-31.10	36	С		100	100	87			SIL poo har (MI lam	TSTONE with fine to medium gravelets of calcium carbonate, material der than the surrounding matrix. Unweater (ERCIA MUDSTONE GROUP) 29.45-29.55m: Extremely wealtinated reddish brown mudstone. Take to medium strong reddish brown to the surrounding strong reddish brown to the surrounding strong reddish brown to the surrounding strong reddish brown to the surrounding strong reddish brown to the surrounding strong reddish brown to the surrounding strong reddish brown to the surrounding strong reddish brown to the surrounding strong reddish surrounding strong reddish brown to the surrounding strong reddish surrounding stro	el size slightly hered. thinly	- (0.45) - 29.75	× × × × × × × × × × × × × × × × × × ×
				\		•			thic inte Un	kly laminated cross SANDSTON ermittent bands of greenish grey weak s weathered. ERCIA MUDSTONE GROUP)	E with	- - -(1.35) - -	
-												31.10	[::::::

<u> </u>		Boring Pro	ogress and	Water Ob	servations				Co	noral	Remarks		
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter	Water Depth			<u> </u>	IICIAI	Nemaiks		
ŝ			Берит	Берит	(mm)	Берит							
ם													
5													
Jaic													
ומ,													
25								A II I' '				4.05	
<u>.</u>								All dimensio	ns in metre	s 	Scale:	1:25	
Oli uctui	Method Used:	Dynamic	tion pit +	+ Plan		cchio GEC	205	Drilled By:	???	Logged By:	DNeylon + JAlton	Checked By:	AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07_| Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Soils Ltd, Branch Office - Castleford: The Pottery Street, Castleford, West Yorkshire, WF10 1\overline{10}. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. | 11/12/22 - 10:45 | TC9 |

Rotary Cored

BOREHOLE LOG

Contract:				Client:		Borehole	e:		
EMG Pha	se 2				SEGRO			C	P01
Contract Ref:	Start:	05.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	06.09.22		91.40	E:446654.8 N:325363.5		1	of	1_

ĺ	Samp	oles a	nd In-si	tu Tests	Water	Backfill & Instru-mentation	Description of Otroto	Depth	Material
	Depth	No	Туре	Results	M	Back Inst	Description of Strata	(Thick ness)	Graphic Legend
	- - 0.10	1	ES	1xT+1xJ+1xV			TOPSOIL 0.20-0.40m: becomes stiff	0.40	7.7.1.7.1.
160	- - 0.50 -	2	ES	1xT+1xJ+1xV			sandstone (<250x150x100mm). Stiff dark reddish brown slightly sandy slightly gravelly silty CLAY. Sand	0.65	<u>~~~</u>
18:38 T(- - 1.00 - 1.20-1.65	3	ES SPT	1xT+1xJ+1xV N=18			is fine to coarse. Gravel is subangular to subrounded fine to coarse of quartzite and sandstone.	- - -	000
11/12/22 -	1.20-1.65	4 5	DSPT B	14-10			Stiff dark reddish brown slight sandy CLAY with low cobble content. Cobbles are subangular of dark grey siltstone (<150x90x80mm). Occasional light greenish grey reduction spots. (MERCIA MUDSTONE GROUP)	- - -	0-0-0-0 00-0
s.co.uk.	- 1.80 - 2.00-2.45 - 2.00-2.45	6 7	D SPT DSPT	N=30			0.65m: Cobbles are subangular of dark grey siltstone (<230x150x100mm).	- - - -	0 0 0 0 0 0
: ask@soil	2.00-2.50	8	В					- - - -	0-00
uk, Emai	- 2.80 - 3.00-3.31	9	D SPT	13,12/18,22,10 for 5mm				- - -	- 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0
w.soils.co	3.00-3.30 3.00-3.50	10 11	DSPT B	IOI SITIITI				- - - -	00.
, Web: ww	- 3.80 - 4.00-4.45	12	D SPT	N=50				(7.16)	0-0.0
177-552299	4.00-4.45 4.00-4.50	13 14	DSPT B					- - - -	
, Fax: 019	- 4.80 - 5.00-5.38	15	D SPT	6,10/10,10,20,10			5.00-7.95m: very stiff	- - -	000
77-552255	5.00-5.30 5.00-5.50	16 17	DSPT B	for 5mm				- - -	0.0.0
J. Tel: 019	- 5.80 - 6.00-6.45	18	D SPT	N=49				- - -	000
, WF10 1N	6.00-6.45 6.00-6.50	19 20	DSPT B					- - -	0-00
Yorkshire	- - 6.80 -	21	D					- - -	0.00
otteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 18:38 TC9	7.50-7.81		SPT	6,8/17,23,10				-	000
eet, Castle	7.50-7.81	22	DSPT	for 5mm		*****	Cable percussion borehole terminated at 7.81m depth.	7.81 - -	* - 4
ottery Stre	- - - -							- - - -	
otteries, F	- - -							-	

The		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow	Progress	Conoral	Domorko
Castleford:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration	General	Remarks
astle	Date	111110	Depth	Depth	(mm)	Depth		10	(hh:mm)	1 Desition algored using (DAT and Conny
e - C	05/09/22	17:00	1.20	-		Dry	3.30	3.50	00:30	1. Position cleared using 0 2. Hand dug inspection pit	to 1.20m.
Soils Ltd, Branch Office	06/09/22 06/09/22	08:00 14:00	1.20 7.81	3.00	150	Dry Dry	5.60	6.00	00:30	Drilled using 150mm dia No groundwater encour Borehole installed with sompletion. SPT hammer JB05-202	ntered during drilling. 50mm standpipe on
al Sc										All dimensions in metres	Scale: 1:50
ructural	Method Used:		tion pit -			ando 200	10	Drilled By:	William Nevin	Logged GKalaher By:	Checked By: AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07 | Log CABLE PERCUSSION LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.

Structural Solis Lid, Branch Office - Castleford: The Pottenies, Potteny Street, Castleford, West Yorkshire, WF10_1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk, | 11/12/22 - 18:38 | TC9 |

BOREHOLE LOG

Contract:				Client:	Borehole	e :				
EMG Pha	se 2				SEGRO					
Contract Ref:	Start:	07.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:				
765514	End:	07.09.22		87.79	E:446423.0 N:325361.8		1	of	1	

	Samp	oles a	and In-sit	tu Tests	Water	Backfill	Description of Otroto	Depth	Material
	Depth	No	Туре	Results	Me	Bac	Description of Strata	(Thick ness)	Graphic Legend
3:39 TC9	- 0.50 - 0.50 - 0.50 - 1.00	1 2 3	ES D ES c	1xT+1xJ+1xV 1xT+1xJ+1xV			TOPSOIL 0.20-0.35m: stiff Stiff dark reddish brown slightly sandy gravelly CLAY. Occasional fine to coarse gravel size pockets and lenses (<10mm) of greenish grey sandy silt with trace laminae and brown bands up to 3mm. Sand is fine and medium and mudstone derived. Gravel is angular and subangular fine to coarse of extremely weak mudstone.	0.35	
gsoils.co.uk. 11/12/22 - 18	1.00 - 1.20-1.65 - 1.20-1.65 - 1.20-1.70 - 1.80 - 2.00-2.45	5 6 7 8	D SPT DSPT B D UT _(UT100)	N=21 60 blows 100% recovery			(MERCIA MUDSTONE GROUP) Very stiff dark reddish brown slightly sandy gravelly CLAY. Occasional fine to coarse gravel sized pockets of greenish grey sandy silt. Sand is fine and medium and mudstone derived. Gravel is angular and subangular fine to coarse of mudstone. (MERCIA MUDSTONE GROUP)	1.60	
st Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 18:39 TC9	2.60 2.60-3.00 - 3.00-3.41 - 3.00-3.40 - 3.00-3.50	9 10 11 12	D B SPT DSPT B	5,5/13,13,15,9 for 35mm			3.00-3.30m: verging towards Grade III with extremely weak to very weak mudstone and occasional fine gravel size fragments of dark brown fossilised organic matter.	(4.40)	
ax: ⁻ 01977-552299, Web: v	- 3.80 - 4.00-4.45 	13 14 15 16	D UT _(UT100) D B SPT	90 blows 100% recovery 5,7/12,28,10			5.00-5.30m: occasional fine gravel size fragments of dark brown	- - - - - - - - - -	
'el: 01977-552255, F	5.00-5.30 5.00-5.50 5.80	17 18 19	DSPT B	for 5mm	1 1 1 2		fossilised organic matter.	6.00	
orkshire, WF10 1NJ. 1	- 6.00-6.37 - 6.00-6.40 - 6.00-6.50 - 6.80	20 21 22	SPT DSPT B	8,14/25,25,25 for 70mm			Very stiff dark reddish brown slightly sandy gravelly CLAY with infrequent beds (<30mm) of light greenish grey siltstone. Sand is fine to coarse and mudstone derived. Gravel is angular and subangular fine to coarse extremely weak mudstone and siltstone. (MERCIA MUDSTONE GROUP) 7.00-7.63m: gravel size fraction extremely weak to very weak	(1.63)	
Potteries, Pottery Street, Castleford, West Yo	- - 7.50-7.63 - - 7.50-7.63	23	SPT DSPT	25/75 for 55mm		///, ///, ///,	Cable percussion borehole terminated at 7.63m depth.	7.63	
Potteries, F								- - -	

드		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow	Progress	Conoral	Domarko
eford:	Date	Time	Borehole		Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remarks
Castlefo			Depth	Depth	(mm)	Depth			(1111.11111)	1. Position cleared using (AT and Genny
Ltd, Branch Office -	07/09/22	16:00	7.63	1.50	150	-	3.40 6.80	3.60 7.00	00:30 00:30	 Prosition dealed using 0 Hand dug inspection pit Drilled using 150mm dia Groundwater strike at 6 minutes Borehole backfilled with SPT hammer JB05-202 	to 1.20m. ameter tools and casing00m. Rise to 5.70m after bentonite on completion.
II Soils										All dimensions in metres	Scale: 1:50
Structura	Method Used:		tion pit -		1	ando 200	0	Drilled By:	W Nevins	Logged RStan By:	Checked By: AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07_1 Log CABLE PERCUSSION LOG - A4P | 785514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford. The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 18:39 | TC9 |

BOREHOLE LOG

Contract:				Client:	Borehole				
EMG Pha	se 2				SEGRO			C	P03
Contract Ref:	Start:	08.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	08.09.22		90.21	E:446264.9 N:325259.7		1	of	1

l		000		Eliu.	00.0	J	30.21 L.770207.3 N.323233.1		•
	Samp	oles a	nd In-sit	tu Tests	Water	Backfill	Departation of Strate	Depth	
	Depth	No	Туре	Results	×	Bac	Description of Strata	(Thick ness)	Legend
	- - 0.10 - 0.20	1 2	ES D	1xT+1xJ+1xV			TOPSOIL 0.20-0.35m: becoming stiff.	0.35	7.7.4.4.7.7 3.7.3.7.3
-	- 0.50 - 0.50	3 4	ES D	1xT+1xJ+1xV			Stiff dark orangish brown slightly gravelly sandy SILT. Sand is fine to coarse. Gravel is subangular and subrounded fine to coarse of quartzite, sandstone and flint.	0.70	× ·× ·× ·× ·× ·× ·× ·× ·× ·× ·× ·× ·× ·×
.un. 11/12/22 - 10.39 1	- 1.00 - 1.00 - 1.00 - 1.20 - 1.20 - 1.20-1.65 - 1.20-1.65 - 1.80	5 6 7 8 10 9	B ES D B SPT B DSPT D	1xT+1xJ+1xV N=16			Stiff to very stiff dark reddish brown slightly sandy slightly gravelly CLAY with frequent rootlets (<1mm) and occasional fine gravel size pockets of greenish grey silt. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of quartzite, flint and sandstone. Occasional fine gravel size pockets of dark brown decayed organic matter. 0.80-1.20m: occasional lenses (<10mm) of dark reddish brown fine to coarse sand	1.20	
ask@solls.co.	2.00-2.45	12	UT _(UT100)	120 blows 100% recovery			Very stiff dark reddish brown slightly sandy gravelly CLAY with occasional beds and lenses (<25mm) of greenish grey sandy silt with trace laminae and brown silt bands (<3mm). Sand is fine and medium and mudstone derived. Gravel is angular and subangular fine to coarse	- - - -	
olls.co.uk, Elliali. a	- 2.60 - 2.60-3.00 - 3.00-3.45 - 3.00-3.45 - 3.00-3.50	13 14 15 16	D B SPT DSPT B	N=53		///. ///. ///. ///. ///.	of extremely weak mudstone. (MERCIA MUDSTONE GROUP) 2.60-3.00m: friable 3.00-6.50m: frequent gravel size pockets of greenish grey sandy silt	- - - - - -	
911-002233, Web. WWW.	- 3.80 - 4.00-4.40 - 4.00 - 4.40-5.00	17 18 19 20	D UT _(UT100) D B	150 blows 100% recovery				(5.30)	
7-332233, Fax. UI	- 5.00-5.45 - 5.00-5.45 - 5.00-5.50	21 22	SPT DSPT B	N=45				- - - - - -	
WF 10 1140. Tel. 0197	- 5.80 - 6.00-6.45 - 6.00-6.45 - 6.00-6.50	23 24 25	D SPT DSPT B	N=60				6.50	
west rollyshille, wr	- 6.80 - 7.00-7.25 - 7.00-7.25	26 27	D SPT DSPT	8,15/40,60 for 20mm			Very stiff dark reddish brown slightly sandy gravelly CLAY with occasional beds (<20mm) of light greenish grey siltstone. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of extremely weak mudstone and siltstone. (MERCIA MUDSTONE GROUP)	(1.11)	
Casueloi d, v	7.00-7.30 7.30-7.61 7.30-7.61	28	B SPT DSPT	13,12/20,40,15 for 10mm		/// <u>/</u>	Cable percussion borehole terminated at 7.61m depth.	7.61	-00
roueries, rouery sueer, c	-							- - - - - -	

The		Boring Pro	ogress and	Water	Observations	;	Chisel	ling / Slow I	Progress	Conoral	Domorko
Castleford:	Date	Time	Borehole	Casin	Borehole Diameter	Water	From	То	Duration (blumm)	General	Remarks
astle	Date	11110	Depth	Depth		Depth	1 10111		(hh:mm)	1 Desition algored using (CAT and Canny
1	08/09/22	18:00	7.00	1.50	150	Dry	2.60	3.00	00:30	 Position cleared using (Hand dug inspection pit 	
ffice	08/09/22	08:00	7.00	1.50	150	Dry	7.00	7.30	00:30	3. Drilled using 150mm dia	ameter tools and casing.
ils Ltd, Branch Office	09/09/22	09:00	7.61	1.50	150	Dry				No groundwater encour Borehole backfilled with SPT hammer JB05-202	bentonite on completion.
Se										All dimensions in metres	Scale: 1:50
tructural Soils	Method			- 1	ant			Drilled		Logged RStan	Checked
ξī	Used:	Cable p	ercussio	on ∣U:	sed: D	ando 200	0	By: V	V Nevins	By:	By:

GINT_LIBRARY V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07_1 Log CABLE PERCUSSION LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/1/2/22 - 18:39 | TC9 |

BOREHOLE LOG

Contract:				Client:		Borehole	e:		
EMG Pha	se 2				SEGRO			CI	P04
Contract Ref:	Start:	12.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	13.09.22		81.74	E:446165.0 N:325032.0		1	of	2

	Samp	oles a	nd In-sit	tu Tests	Water	Backfill	Description of Strata	Depth (Thick	Material Graphic
	Depth	No	Туре	Results	≥	Bac	Description of offata	ness)	Legend
	- 0.00-0.50	3	В				TOPSOIL	0.30	7/1/2 . 7/1/2 . 7
18:39 1C9	- 0.50 - 0.50 - 0.50-1.00 - 1.00	1 2 6 4 5	ES D B ES D				Stiff brown slightly gravelly sandy CLAY with occasional rootlets up to 1mm in diameter. Sand is fine and medium. Gravel is angular to subrounded fine and medium of mudstone and sandstone. 0.85-1.00m: low cobble content. Cobbles (<100mm x 70mm x 40mm) are subrounded quartzite.	(1.90)	
- 22/21/11 .	1.20-1.65 1.20-1.65 1.20-1.70	7 8 9	SPT DSPT B	N=11				- - - -	
ö. K	- 2.00-2.45		UT _(UT100)	80 blows				- 2.20	
Email: ask@soils.co.uk. 11/12/	- - - - - - - - - - - - - - - - - - -	11 12	D B	100% recovery			Stiff brownish grey occasionally mottled with brown and reddish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of mudstone, sandstone, siltstone, chalk and unknown metamorphic rock.	-	
.solls.co.uk,	3.00-3.45 3.00-3.45 3.00-3.50	13 14	SPT DSPT B	N=19				- - - - -	- · · · · · · · · · · · · · · · · · · ·
01977-552299, Web: www	- 3.80 - 4.00-4.45 -	15 16	D UT _(UT100)	90 blows 100% recovery				- - - - - - -	
. 01977-5	4.60 4.60-5.00	17 18	D B					- - -	
7-552255, Fax	5.00-5.45 5.00-5.45 5.00-5.50	19 20	SPT DSPT B	N=35				- - - - -	
-10 1NJ. Iel: 0197	- - 5.80 - 6.00-6.45 -	21 22	D UT _(UT100)	110 blows 100% recovery				- - - - - -	
T Yorksnire, WF	- 6.60 - 6.60-7.00	23 24	D B				below 6.60m: becoming very stiff	- - -	<u> </u>
	7.00-7.45 7.00-7.45 7.00-7.50	25 26	SPT DSPT B	N=37				-	
Castle	- - 7.80	27	D					-	<u> </u>
e Potteries, Pottery Street, Castleford, Wes	- 8.00-8.45 - 8.00-8.45 - 8.00-8.50	28 29	SPT DSPT B	N=35				- - - - - -	
eries,	- 8.80	30	D			(//		-	
e Pott									

2		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	Progress	General Remarks			
Siciola.	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)				
IIS EIU, DIGITOTI OTITOS - CA	12/09/22 13/09/22 13/09/22 14/09/22 14/09/22	18:00 08:00 18:00 08:00 11:00	11.00 11.00 17.00 13.50 15.00	3.00 3.00 13.50 13.50 15.00	150 150 150 150 150	12.10 11.00				 Position cleared using CAT and Genny. Hand dug inspection pit to 1.20m. Drilled using 150mm diameter tools and casir Groundwater strike at 17m. Rose to 10.20m at 20 minutes. Borehole was backfilled with bentonite seal up completion. SPT hammer JB05-2022 (E_r = 68.00%) used 			
ori dectariari de	Method Used:	mopootion pit			t d: D a	ando 200	0	Drilled By: W	/ill Nevins	All dimensions in metres Logged GKalaher By:	Scale: 1:50 Checked By: AGS		

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PnVersion: v8_07_1 Log CABLE PERCUSSION LOG - A4P | 785514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk, | 11/12/22 - 18:39 | TC9 |



BOREHOLE LOG

Contract:				Client:	Borehole	e :			
EMG Pha	se 2				SEGRO			CI	P04
Contract Ref:	Start:	12.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	13.09.22		81.74	E:446165.0 N:325032.0		2	of	2

	Samp	oles a	nd In-si	tu Tests	Water		2	Depth	Material
	Depth	No	Туре	Results		Backfill	Description of Strata	(Thick ness)	Graphic Legend
	9.00-9.45 9.00-9.45 9.00-9.50	31 32	SPT DSPT B	N=34		/// /// /// ///	Stiff brownish grey occasionally mottled with brown and reddish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of mudstone, sandstone, siltstone, chalk and unknown metamorphic rock.	(13.80)	
12/22 - 18:39 TC9	9.80 10.00-10.45 10.00-10.45 10.00-10.50	33 34 35	D SPT DSPT B	N=35	<u></u>		(stratum copied from 2.20m from previous sheet) 9.00-11.80m: becoming reddish brown	- - - - - - - -	
01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 18:39 TC9	10.80 11.00-11.45 11.00-11.45 11.00-11.50	36 37 38 39	D SPT DSPT B D	N=34				-	
/w.soils.co.uk, Emai	12.00-12.45 12.00-12.45 12.00-12.50 12.50	40 41 42	SPT DSPT B D	N=67			12.00: becoming dark reddish brown	-	
977-552299, Web: wv	13.00-13.45 13.00-13.45 13.00-13.50 13.50	43 44 45	SPT DSPT B D	N=98				-	
01977-552255, Fax: 01	- 14.00-14.45 - 14.00-14.45 - 14.00-14.50 - 14.50	46 47 48	SPT DSPT B D	N=75				-	
Yorkshire, WF10 1NJ. Tel: 0	15.00-15.45 15.00-15.45 15.00-15.50	49 50	SPT DSPT B	N=58				-	
ا ب	15.80 16.00-16.50	51 52	D B				Dense SAND AND GRAVEL. (Driller's Description)	16.00	0. 0. 0
Potteries, Pottery Street, Castleford, Wes	16.50-16.95 16.50-16.95 16.50-17.00	53 54 55	SPT DSPT B D	N=88	<u>‡</u>		Cable percussion borehole terminated at 17.00m depth.	17.00	
otteries	-							-	

		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slo	w Prog	gress		Conoral	Domor	٠,,	
	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То		uration h:mm)		General	Remai	KS	
			Depth	Depth	(mm)	Depth			,,,						
		Depth													
!										L					
											All dimens	ions in metres	Scale:	1:50	
	Method	Inspec	tion pit -	• Plan	t			Drilled			Logged	GKalaher	Checked		
	Used: Cable percussion				d: Da	ando 200	00	Ву:	Will I	Nevins			Ву:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07_1 Log CABLE PERCUSSION LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford. The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk, | 11/12/22 - 18:39 | TC9 |

BOREHOLE LOG

Contract:				Client:		Borehole	e:		
EMG Pha	se 2				SEGRO			CI	P05
Contract Ref:	Start:	27.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	27.09.22		85.91	E:446066.5 N:325366.2		1	of	1

	Sam	ples a	nd In-si	tu Tests	Water	Backfill	Description of Strata	Depth (Thick	Material Graphic
	Depth	No	Type	Results	>	Вас	Description of Strata	ness)	Legend
	- 0.00-0.50 - 0.00-0.30 - 0.30-0.30	1 101 2	B ES D				TOPSOIL Stiff to very stiff reddish brown gravelly sandy clayey SILT. Sand is fine.	0.30	× × ×
_ 	- 0.50-0.50 - 0.50-1.00 - 0.50-0.50 - 0.70-0.70	3 102 4	B ES D				Gravel is angular to subangular fine of mudstone and siltstone. (MERCIA MUDSTONE GROUP)	-	× · × · × · × · × · × · × · × · × · × ·
10:39 1C8	- 1.00-1.00 - 1.20-1.65	103 5	ES UT	18 blows				- - - -	, ox, , , , , , , , , , , , , , , , , ,
11/12/22	1.65-1.75	6	D	100% recovery					. × · × × × × × × × × × × × × × × × × ×
.co.uk.	2.00-2.45		SPT	4,9/9,13,13,15 for 70mm				-	*° .× .° * .× .×
ask@solls	2.00-2.45	7.1 8	DSPT B	IOI 70IIIIII				-	× · · × × · · × × · · × × · · ×
	2.75-2.75	9	D						× × × ×
.uk,	3.00-3.44		SPT	6,11/13,12,12,16 for 65mm				(0.44)	· · · · · · · · · · · · · · · · · · ·
	3.00-3.45 3.00-3.45	10.1 11	DSPT B	10.00				(6.11)	× . × . × . × . × .
D. www.	3.75-3.75	12	D					_	xo .x .0
9, 44	4.00-4.39		SPT	4,6/14,15,17,6 for 10mm				-	× × ×
77-332239, Web.	4.00-4.45 4.00-4.45	13.1 14	DSPT B						* · · · · · · · · · · · · · · · · · · ·
	4.75-4.75	15	D					_	× · × × · × · × ·
- 1	- 5.00-5.30 -		SPT	8,10/15,31,4 for 0mm		22		Ė	. × · × × × × × × × × × × × × × × × × ×
01.1-002200	5.00-5.45 5.00-5.45	16.1 17	DSPT B					-	×°. × × × × × × × × × × × × × × × × × ×
el. 0 la/	5.75	18	D					_	^°.
	- 6.00-6.25		SPT	10,15/36,14 for 25mm				6.41	* · · · · · · · · · · · · · · · · · · ·
WF10 1140. IG	6.00-6.45 6.20-6.41	19.1	DSPT SPT	25/38,62		///	Cable percussion borehole terminated at 6.41m depth.	0.41	× .× .
	- - 6.20 6.20-6.65	104 20.1	ES DSPT	for 60mm				- - - -	
רמ, עעפטני	- - -								
r, casileid	- - -							- - -	
Tery once	- - - -							- - -	
ouelles, Pouely Sueer, Casueloid, West Torksille,	- - - -							-	

The		Boring Pro	ogress and	Water O	oservations		Chisel	ling / Slow	Progress	Conoral	Domorko
Castleford:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remarks
astl	2 4.15		Depth	Depth	(mm)	Depth			(1111.111111)	4 Desition desired visits of	CAT and Canan
Soils Ltd, Branch Office - Ca	27/09/22	14:00	6.41	6.20	150	Dry	6.00	6.20	00:30	Position cleared using 0 Hand dug inspection pit Drilled using 150mm di. No groundwater encour Borehole backfilled with SPT hammer DS5-1-22	ameter tools and casing. Intered during drilling. In bentonite. It is entired to the case of the case
<u>a</u>										All dimensions in metres	Scale: 1:50
tructural	Method Used:		tion pit -			ando 200	0	Drilled By:	Nathan Topping	Logged RStan By:	Checked By: AGS

GINT_LIBRARY V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07_1 Log CABLE PERCUSSION LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/1/2/22 - 18:39 | TC9 |



BOREHOLE LOG

Contract:				Client:		Borehole	e:		
EMG Pha	se 2				SEGRO			CI	P06
Contract Ref:	Start:	28.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	29.09.22		87.01	E:446015.6 N:325200.5		1	of	2

	Samp	oles a	nd In-sit	tu Tests	Water	Backfill & Instru- mentation	Description of Strate	Depth (Thick	Material Graphic
	Depth	No	Туре	Results	Š	Back Ins	Description of Strata	ness)	Legend
_	- 0.00-0.50 - 0.00-0.10 - 0.20 - 0.50-1.00	1 101 2 3 102	я ся				TOPSOIL Stiff fissured dark greyish brown sandy gravelly silty CLAY with pockets of chalk. Sand is fine to coarse. Gravel is subangular to subrounded subangular to subrounded fine to coarse of mixed lithologies including	0.30	
- 16:39 108	0.70 - 1.00	4 103	D ES			;; <u>=</u> ;;	sandstone, siltstone and quartzite.	1.30	<u> </u>
. 22/21/11	1.20-1.65 1.30 1.65	5 104 6	UT ES D	80 blows 40% recovery			Stiff fissured dark greyish brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of mixed lithologies including sandstone and flint with occasional cobbles noted.	- - - - -	00.00 00.00 00.00
ask@soils.co.uk.	2.00-2.45 2.00-2.45 2.00-2.45	7 8	SPT DSPT D	N=23				- - - - -	0.0.0 00 00
	2.75	9	D					-	0,-00
www.soiis.co.uk, Emaii:	3.00-3.45	10	UT	28 blows 50% recovery				-	0
	3.65	11	D					(4.65)	<u>~,</u> 0:_00
//-552299, Web:	4.00-4.45 4.00-4.45 4.00-4.45	12 13	SPT DSPT B	N=30				- - - -	000
52255, FaX: 0197	4.75 - 5.00-5.45	14 15	D UT	26 blows 50% recovery				- - - - -	000
cc-//610:	5.65	16	D					5.95	
ilre, Wrio ind. iei:	6.00-6.45 6.00 6.00 6.00	105 17 18	SPT ES DSPT B	N=37			Stiff fissured orangish brown mottled grey gravelly sandy clayey SILT. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of mixed lithologies included sandstone, siltstone and mudstone.	(1.75)	* · · · · · · · · · · · · · · · · · · ·
<u> </u>	7.00	19	D		<u>‡</u>			- - - -	· o×· *o · ×· × · ×· × × · ×· ×
Castletora, wes	7.50-7.95	20	UT	50 blows				- 7.70	× × ×
Street,	7.70	106	ES	20% recovery			Stiff to very stiff reddish brown sandy gravelly silty CLAY. Sand is fine. Gravel is angular to subangular fine to coarse of mudstone. Occasional bands of grey siltstone. (MERCIA MUDSTONE GROUP)	- - - - -	x x
Potteries, Pottery	8.50	21	D		⊉			- - - -	× · ×

lhe		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow I	Progress	Conoral	Domorko
erord:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remarks
ası			Depth	Depth	(mm)	Depth			()	1 Desition algored using (CAT and Canny
: :	28/09/22	18:00	11.26	11.00	150	Dry	10.60	11.00	00:30	Position cleared using (Hand dug inspection pit	
a) Lice	29/09/22	08:00	11.26	11.00	150	-				Borehole drilled using 1	
5	29/09/22				150	-				4. Groundwater struck at s	9.00m depth, rising to
ranc		0/22 11:00 11.26								7.20m depth after 20 m 5. Borehole installed with	
ā n										6. SPT hammer DS5-1-22	
IS L											
80										All dimensions in metres	Scale: 1:50
stura	Method	Inspec	tion pit -	• Plar	t			Drilled	Nathan	Logged RStan	Checked
šťī	Used:		ercussio		d: Da	ndo 200	0	By:	Topping	By:	By: AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07_1 Log CABLE PERCUSSION LOG - A4P | 785514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford. The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 18:39 | TC9 |

STRUCTURAL SOILS **BOREHOLE LOG**

Contract:				Client:		Borehole	e:		
EMG Pha	se 2				SEGRO			CI	P06
Contract Ref:	Start:	28.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	29.09.22		87.01	E:446015.6 N:325200.5		2	of	2

	Samp	oles a	nd In-si	tu Tests	Water	Backfill & Instru- mentation	Description of Charte	Depth	Material Graphic
	Depth	No	Туре	Results	Š	Back Ins	Description of Strata	(Thick ness)	Legend
16	9.00-9.45 9.00-9.45 9.00	22 23	SPT DSPT B	N=66			Stiff to very stiff reddish brown sandy gravelly silty CLAY. Sand is fine. Gravel is angular to subangular fine to coarse of mudstone. Occasional bands of grey siltstone. (MERCIA MUDSTONE GROUP) (stratum copied from 7.70m from previous sheet)	(3.56)	x x
- 18:	- - 10.00 -	24	D					- - - -	× · · × · · · × · · · · · · · · · · · ·
11/12/	- 10.50-10.83 -		SPT	12,12/24,51,20 for 30mm				F	× ×
nk.	10.50-10.83	25	DSPT					_	<u> </u>
s.co.	- 11.00-11.26 -		SPT	12,14/29,71 for 50mm		*****	Cable percussion borehole terminated at 11.26m depth.	11.26	x· · ×
299, Web: www.soils.co.uk, Email: ask@:	- 11.00-11.26	107 26	DSPT						
tteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22									
tteries, Pottery Street, Castleford, West Y								- - - - - - - - - - - - - - - - - - -	

2		ate Time 1					Chisel	lling / Slow	v Progress	General	Domorl	10	
5	Date	Borehole Casing Borehole Water					From	То	Duration	General	Reman	KS	
2011	Date	11110	Depth	Depth		Depth	1 10111		(hh:mm)				
,													
3													
5													
2													
5													
, Li													
										All dimensions in metres	Scale:	1:50	
,	Method	Inspec	tion pit -	+ Plan				Drilled	Nathan	Logged RStan	Checked		
2	Used:	Used: Cable percussion Used: Dando 20					0	Ву:	Topping	By:	By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log CABLE PERCUSSION LOG - A4P | 785514 EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552399, Web: www.solis.co.uk, Email: ask@solis.co.uk, | 11/12/22 - 18:39 | TC9 |

BOREHOLE LOG

Contract:				Client:		Borehole	e:		
EMG Pha	se 2				SEGRO			CI	P07
Contract Ref:	Start:	30.09.22	Groun	nd Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	03.10.22		78.15	E:445919.0 N:325053.4		1	of	2

	Sam	oles a	nd In-sit	u Tests	Water	¥	Description of Otroto	Depth	Material Graphic
	Depth	No	Туре	Results	×	Backfill	Description of Strata	(Thick ness)	Legend
1.33 1.03	- 0.00-0.00 - 0.10-0.20 - 0.20-0.20 - 0.40-0.40 - 0.60-0.60 - 0.60-0.80	1 2 101 102 3 4	D B ES D B	1xT+1xJ+1xV 1xT+1xJ+1xV			TOPSOIL Soft to firm greenish brown mottled grey slightly sandy gravelly CLAY. Sand is fine to medium. Gravel is subangular to rounded fine to coarse of quartzite, chalk, mudstone, sandstone and coal. Occasional cobbles (< 100mm) of quartzite and sandstone.	0.30	
co.uk. 11/12/22 - 16	- 1.30 - 1.50-1.95 	5 6	D UT _(UT100)	150 blows 89% recovery				- - - - - -	000 000
ik, Eiliali. ask@solls.	- 2.30 - 2.50-2.95 - 2.50-2.95 - 2.50-2.95	7 10 9	D SPT B DSPT	N=20				-	
D.00.81	3.20	11	D					-	000
w.sol	3.50-3.95	12	UT _(UT100)	100 blows 89% recovery				-	- 0-0
a, web. ww	3.50-3.95	13	D	00701000Valy				- - - -	0
2276	4.30	14	D	N. 04				-	
//-552255, Fax: UI9//	4.50-4.95 4.50-4.95 4.50-4.95	16 17	SPT DSPT B	N=21				- - - - - - - - -	0
9 0 3	5.70	18	D						0 - 00
) INO. IE	6.00-6.45	19	UT _(UT100)	100 blows 93% recovery				-	-0-0-0
st rorksnire, write	6.45-6.55	20	D					[(13.00) - - -	0.00 0.00
iora, we	7.30	21	D SDT	N=20				-	
Pottery Street, Castle	7.50-7.95 7.50-7.95 7.50-7.95 - 7.50-7.95	23 24	SPT DSPT B	N=2U	<u>1</u>			- - - - - - - - - -	000
meries,	- 8.70 -	25	D					-	\$
5									

				1 K.	4					-	<u></u>
	Boring Pr	ogress and	Water Ol	servations	i	Chise	lling / Slow	Progress	Canaral	Damarka	
Date	Time	Borehole	Casing	Borehole Diameter	Water Depth	From	То	Duration (hh:mm)	General	Remarks	
30/09/22 03/10/22 03/10/22	ate Time Depth Depth Depth (mm) Depth (mm) Depth (mm) Depth (mm) 09/22 18:00 8.00 7.50 200 D 10/22 08:00 8.00 7.50 200 D					13.50	14.00		 Position cleared using 0 Hand dug inspection pi Drilled using 150mm di Groundwater struck at 8.40m depth after 20 m Borehole backfilled with completion. SPT hammer AR3104- 	to 1.20m. ameter tools and 13.40m depth, ris inutes. i bentonite upon	ing to
									All dimensions in metres	Scale: 1:50	0
Method Used:		tion pit - ercussio			ando 300	00	Drilled By: J	lonny Hutt	Logged RStan By:	Checked By:	AG

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PnVersion: v8_07_1 Log CABLE PERCUSSION LOG - A4P | 785514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk, | 11/12/22 - 18:39 | TC9 |



BOREHOLE LOG

Contract:				Client:		Borehole	e:		
EMG Pha	se 2				SEGRO			CI	P07
Contract Ref:	Start:	30.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	03.10.22		78.15	E:445919.0 N:325053.4		2	of	2

San	nples a	and In-sit	tu Tests	Water	Backfill	Description of Strata	Depth (Thick	Material Graphic
Depth	No	Туре	Results	×	Вас	·	ness)	Legend
9.00-9.45	26	UT _(UT100)	100 blows 100% recovery			Soft to firm greenish brown mottled grey slightly sandy gravelly CLAY. Sand is fine to medium. Gravel is subangular to rounded fine to coarse of quartzite, chalk, mudstone, sandstone and coal. Occasional cobbles (< 100mm) of quartzite and sandstone. (stratum copied from 0.30m from previous sheet)	- - - - - - - - -	
- 10.30 - 10.50-10.95 - 10.50-10.95 - 10.50-10.95	30	D SPT DSPT B	N=43				- - - - - - - - - - -	
11.70	32	D						000 -0-0
- 12.00-12.30 - 12.30-12.40		UT _(UT100)	150 blows 83% recovery				- - - - -	00.0 -0.0.0 -0.0.0
- - - -				⊉		Light brownish grey slightly sandy clayey SILT. Sand is fine.	13.30	× × × · · · · · · · · · · · · · · · · ·
13.40 13.50-13.78 13.50-13.78 13.50-13.80	37	D SPT DSPT B	21,4/32,40,28 for 40mm	-		Extremely weak reddish brown mottled grey MUDSTONE. (MERCIA MUDSTONE GROUP)	13.50 - -(0.71)	_ *X <u>•</u> • X
13.50 13.50 13.50 - 14.00-14.21	39 39	EW W SPT	25/54,46 for 60mm			Cable percussion borehole terminated at 14.21m depth.	14.21	
14.00-14.21	41	DSPT					- - - -	
-							- - - -	
- - - - -							- - - -	
- - - -							- - - - -	
-							- - - - -	
-								

The Poi		Poring Dr	ograce and	Mater O	oservations		Chico	lling / Slo	w Progress				
Castletord: I	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	To	Duration (hh:mm)	General	Remark	S	
			Depth	Depth	(mm)	Depth			(111111111)				
n Office													
ı, brancı													
Soils Ltd										All discounting in section			
uctural S	Method Used:		tion pit -					Drilled		All dimensions in metres Logged RStan By:	Scale: 1 Checked By:	:50	AGS
St	Useu.	Cable p	ercussio	on Use	iu. Da	ando 300	10	Ву:	Jonny Hutt	[Dy.	Бу.		Aus

BOREHOLE LOG

Contract:				Client:		Borehole	e:		
EMG Pha	se 2				SEGRO			CI	P08
Contract Ref:	Start:	06.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	08.09.22					1	of	2

L	.	000		Eliu.	00.0	V			<u> </u>
	Samp	oles a	nd In-si	tu Tests	Water	Backfill	Department of Strate	Depth	Material Graphic
	Depth	No	Туре	Results	×	Bac	Description of Strata	(Thick ness)	Legend
	0.30-0.50	1 2	B D				TOPSOIL	(0.85)	70.70.7 7.74.7 7.74.7 7.75.7
3	0.50	3	ES	1xT+1xJ+1xV			Reddish brown gravelly SAND. Sand is fine to coarse. Gravel is	0.85	<u>%·.∜½·.∿//</u>
	1.00-1.20 1.00	4 5	B D				subangular to subrounded fine to coarse of quartzite and rare chalk.	(0.55)	::0:: s
	1.00	6	ES	1xT+1xJ+1xV			Very stiff brown slightly sandy gravelly SILT. Sand is fine to coarse. Gravel is subangular to subrounded fine to medium of chalk and quartzite.	1.40	** * * * * * * * * * * * * * * * * * *
	2.00-2.50	13	В				Stiff brown mottled grey and locally reddish brown slightly gravelly CLAY. Gravel is subangular to subrounded fine and medium of quartzite and chalk.	(0.90)	
	2.50	14	D					2.70	
	-					///	Very stiff brown mottled grey thinly and thickly laminated CLAY.	(0.50)	
	3.00-3.45	15	U ₍₁₀₀₎	49 blows 100% recovery			Brown slightly gravelly clayey fine to coarse SAND. Gravel is subangular	3.20	
	3.50	16	D			///. ///. ///.	to subrounded fine to coarse of quartzite and other lithologies.	(0.80)	
	- - 4.00-4.45		SPT	N=23			Stiff brown mottled grey thinly and thickly laminated CLAY. Locally	4.00	
,	4.00-4.45	18 19	DSPT B				slightly gravelly, gravel is subangular and subrounded of mixed lithologies.		
	4.50	20	D					Ė	
	5.00-5.50	21	В					(2.10)	
	5.50	22	D					-	
			J					-	
	6.00-6.45 6.00-6.45	24	SPT DSPT	N=25			Stiff brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse.	6.10	<u> </u>
	6.00-6.50 6.50	25 26	B D			///	Gravel is subangular to subrounded fine to coarse of quartzite and other \lithologies.	6.45	* · · · · · · · · · · · · · · · · · · ·
,							Medium dense reddish brown slightly gravelly silty fine and medium SAND. Gravel is subangular to subrounded fine to coarse of quartzite and other lithologies.	- - -	× × ×
	7.00	27	D		1,		7.10-8.50m: with fine gravel to cobble size pockets (<100mm x 70mm x 30mm) of yellowish brown sand and some fine to coarse gravel	(2.05)	X · : · · · × □ · · × · · · · · · · · · · · · · · · ·
<u> </u>	7.50-7.95 7.50-7.95 7.50-8.00	29 30	SPT DSPT B	N=27	¥		size pockets of grey clay.	-	×0
	8.00	31	D		<u></u>			- - -	×. Ox ×
	8.50	32	D				Description on next sheet	8.50	* · · · ×
								(1.00)	× × ×

		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow	Progress	Conoral	Domorko			
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General Remarks				
	06/09/22 07/09/22 07/09/22 08/09/22 07/09/22	18:00 07:30 17:00 08:00 15:00	2.00 2.00 8.50 8.50 12.63	2.00 2.00 8.50 8.50 12.00	150 150 150 150 150	- - - 5.80 -	9.30	12.30	05:00	1. Position cleared using CAT and Genny. 2. Hand dug inspection pit to 1.20m. 3. Drilled using 150mm diameter tools and casing. 4. No groundwater encountered during drilling. 5. Borehole backfilled with bentonite on completion 6. SPT hammer AR3469-2022 (<i>E</i> _r = 84.00%) use				
200	NA 11 1		4	. DI				D.II. I		All dimensions in metres	Scale: 1:50			
) '	Method Used:		tion pit - ercussic			2000 M	lark 2	Drilled By: B	en Wilsor	Logged Notall Checken				

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07_1 Log CABLE PERCUSSION LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford. The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk, | 11/12/22 - 18:40 | TC9 |

STE

STRUCTURAL SOILS

BOREHOLE LOG

Contract:			Client:		Вс	rehole):		
EMG Pha	se 2			SEGRO				CF	208
Contract Ref:	Start: 06.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sh	eet:			
765514	End: 08.09.22						2	of	2

	Samp	oles a	nd In-si	tu Tests	Water	Backfill	Description of Strata	Depth (Thick	Material Graphic
	Depth	No	Туре	Results	Š	Вас	Description of Strata	ness)	Legend
_	9.00-9.45 9.00-9.45 9.00-9.50 9.50	34 35 36	SPT DSPT B D	N=37			Dense brown mottled reddish brown slightly gravelly silty fine to coarse SAND with occasional bands (<50mm) of strong grey siltstone. Gravel is subangular to subrounded fine to coarse of quartzite and siltstone. (stratum copied from 8.50m from previous sheet)	9.50	*
11/12/22 - 18:40 TC9	-9.90-10.22 -9.90-10.22 -9.90-10.20 -10.20 -10.50	38 39 40 41	SPT DSPT B D D	4,10/13,28,9 for 20mm			Stiff grey mottled reddish brown slightly sandy slightly gravelly CLAY interbedded with reddish brown gravelly clayey SAND. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of quartzite and rare siltstone. Very stiff brown mottled reddish brown sandy gravelly SILT with occasional to frequent fine and medium gravel size pockets of grey silty clay. Sand is fine to coarse. Gravel is subangular to subrounded fine and	9.90 - - - - - -	**************************************
soils.co.uk.	- - 11.00-11.45 - 11.00-11.45 - 11.00-11.50	43 44	SPT DSPT B	N=69			medium of quartzite, coal and other mixed lithologies.	(2.73)	**** ** * * * * * * * * * * * * * *
k, Email: ask@	11.50-11.91 11.50-11.91 11.50-12.00	46 47 48	SPT DSPT B D	10,13/19,24,32,25 for 30mm				- - - - -	*
soils.co.u	- 12.10-12.50 - 12.10-12.50	50		10,14/21,26,26,27 for 25mm	•			12.63	× × × × × × × × × × × × × × × × × × ×
Veb: www.	12.30 12.30-12.63	51	D SPT	12,12/25,40,35 for 30mm			Cable percussion borehole terminated at 12.63m depth.	- - -	
otteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22	12.30-12.63	53	DSPT						

3							_						
<u>ש</u>		Boring Pro	ogress and	Water Ob	servations		Chise	lling / Slo	w Progress	Canaral	Damar	ادم	
Dio	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration	General	Remai	KS	
asıld	Date	Time	Depth	Depth	(mm)	Depth	1 10111	10	(hh:mm)				
)													
5													
2													
ם ם													
LIG													
Š Š										All dimensions in metres	Scale:	1:50	
UCLUIA	Method Used:	Inspec	tion pit	+ Plan	_	- 2000 M	lauls O	Drilled By:	Don Wilson	Logged RStan By:	Checked By:		AGS
õ	O3Cu.	Cable p	ercussio	on Ose	ש שanac	2000 M	iark 2	Dy.	Ben Wilsor	1 ^{Dy.}	Dy.		800

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07_1 Log CABLE PERCUSSION LOG - A4P | 785514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford. The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 18:40 | TC9 |

BOREHOLE LOG

Contract:				Client:		Borehole	e:		
EMG Pha	se 2				SEGRO			C	P09
Contract Ref:	Start:	29.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	29.09.22		77.24	E:445693.6 N:325345.4		1	of	1

	Samp	oles a	nd In-si	tu Tests	Water	Backfill	D	Depth	Material
	Depth	No	Туре	Results	W	Bac	Description of Strata	(Thick ness)	Graphic Legend
	0.00-0.50 0.01 0.20	1 101 2	B ES D				TOPSOIL	0.30	16 - 14 - 14 - 14 - 14 - 14 - 14 - 14 -
- 63	- 0.50-1.00 - 0.50 - 0.70	3 102 4	D ES D				Stiff reddish brown mottled grey sandy silty CLAY. Sand is fine to coarse. Gravel is angular to subangular fine mudstone with pockets of siltstone.	- - - -	XX
Z/ZZ - 18:40 109	- 1.00 - 1.20-1.65 - 1.20-1.65 - 1.20-1.65	103 5 6	ES SPT DSPT B	N=11				-	xx xx
	1.75	7	D					(3.00)	× · ×
IIS.CO.UK.	2.00-2.45	8	UT	28 blows 80% recovery		/// ///		-	x : x
all: ask@solls.	2.45	9	D					- - - -	xx
o.uk, Ema	3.00-3.29		SPT	7,8/10,90 for 60mm				3.30	- x- x
Web: www.solls.co	3.00-3.45 3.00-3.45 3.30 3.75	10 11 104 12	DSPT B ES D				Stiff grey mottled reddish brown sandy gravelly SILT. Sand is fine to coarse. Gravel is angular to subangular fine to coarse of mixed lithologies including sandstone, siltstone and mudstone. With low cobble content of siltstone.	3.75	*. *
/-552299, Web: /	-3.75 -4.00-4.45 -4.00-4.45 -4.00-4.45	105 13 14	ES SPT DSPT B	N=31			Firm reddish brown mottled grey gravelly sandy SILT. Sand is fine. Gravel is angular to subangular fine of mixed lithologies including siltstone and mudstone.		* · · × * · · × * · · × * · · × * · · ×
Fax: 0197	4.75 5.00-5.45	15	D SPT	N=22				[(2.35)	· · · · · · · · · · · · · · · · · · ·
/-55ZZ55,	5.00-5.45 5.00-5.45	16 17	DSPT B					- - -	×° × × × × × × × × × × × × × × × × × ×
1610.18	5.75	18	D					-	× · × · × · ×
ilre, WF10 INJ. Iel.	6.00-6.45 6.00-6.45 6.00-6.45	19 20	SPT DSPT B	N=78			Stiff to very stiff reddish brown gravelly sandy CLAY. Gravel is angular to subangular fine to coarse of mudstone, occasionally grey siltstone. (MERCIA MUDSTONE GROUP)	- 6.10 - - - - - -	
west rorksnire,	7.00	21	D					[- (2.55)	
Castlerord, W	7.50-7.95 7.50-7.95 7.50-7.95	22 23	SPT DSPT B	N=81				-	
	8.00-8.36		SPT	25/31,24,26,21 for 60mm				-	
Pottery	8.00 8.00-8.36 8.40-8.65	106 24	ES DSPT SPT	25/26,32,54,8		///	Cable percussion borehole terminated at 8.65m depth.	8.65	• • • •
Potteries,	8.40-8.65	25	DSPT	for 0mm			Casto per cascolori soronio commitatod de otooni dopari.	-	

The		Boring Pro	ogress and	Water Ol	servations		Chisell	ing / Slow l	Progress	Canaral Damarka
Castleford	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General Remarks
astl			Depth	Depth	(mm)	Depth			(1111.111111)	1. Desition elected using CAT and Conny
Ltd, Branch Office -	29/09/22	17:00	8.65	8.40	150	Dry	7.60 8.00	8.00 8.40	00:30 00:30	 Position cleared using CAT and Genny. Hand dug inspection pit to 1.20m. Borehole drilled using 150mm tools and casing. No groundwater encountered during drilling. Borehole backfilled with bentonite upon completion. SPT hammer DS5-1-22 (E_r = 61.00%) used.
II Soils										All dimensions in metres Scale: 1:50
tructural	Method Used:		tion pit -			ando 200		Drilled By:	Nathan Topping	Logged GKalaher Checked By: Checked

GINT_LIBRARY V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07_1 Log CABLE PERCUSSION LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/1/2/22 - 18:40 | TC9 |



BOREHOLE LOG

Contract:				Client:		Borehole	e :			
EMG Pha	se 2				SEGRO					
Contract Ref:	Start:	29.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:				
765514	End:	30.09.22		75.02	E:445636.3 N:325137.2		1	of	2	

Ĺ				Liid.					
	Sam	oles a	ınd In-sit	u Tests	Water	Backfill & Instrumentation	Decemption of Strate	Depth	Material Graphic
	Depth	No	Туре	Results	×	Back Inst	Description of Strata	(Thick ness)	Legend
-	0.10-0.20	1	В				TOPSOIL	0.20	$\overline{z_{I,N}}$. $\overline{z_{I,N}}$. $\overline{z_{I,N}}$
ŀ	0.10	2 101	D ES	1xT+1xJ+1xV			Stiff brown slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of mixed lithologies including	(0.60)	
_ [0.30-0.60	3	В				sandstone, mudstone and quartz.	0.80	
3	0.30 0.50	102 4	ES D	1xT+1xJ+1xV		• • • • •	Stiff light brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is	- 0.00	•
	0.90-1.20 0.90	5 103	B ES	1xT+1xJ+1xV			subangular to subrouded fine to coarse of sandstone, siltstone, mudstone and chalk.	-	
- 7	1.00	6	D				made and shall.	-	<u> </u>
77	1.50-1.95 1.50-1.95	8	SPT DSPT	N=25				(2.00)	
-	1.50-1.95	9	В						
3	• •							-	
in a	• •								
ask	2.50-2.95	10	UT _(UT100)	125 blows 100% recovery				2.80	•
	-2.05.2.05		D	,			Stiff fissured greyish brown slightly gravelly slightly sandy CLAY. Sand	_	<u> </u>
, in	2.95-3.05 3.00-3.30	11 12	В				is fine to coarse. Gravel is subangular to subrounded fine to coarse of mixed lithologies including sandstone and siltstone.	- - ,	
3.5	3.00	104	ES	1xT+1xJ+1xV				(1.20)	
W. 9	3.50-3.95 3.50-3.95	14	SPT DSPT	N=37				-	
WCD. W	3.50-3.95	15	В					4.00	
, 6	4.00 4.00-4.40	16 17	D B				Stiff brown mottled grey sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine of mixed lithologies including sandstone, siltstone, flint.	-	
2220	4.00	105	ES	1xT+1xJ+1xV				-	<u></u>
- / /6	- 4.50-4.95 -	18	UT _(UT100)	150 blows 100% recovery					
٠ ٩	- ⁻ 4.95-5.10	19	D					-	•••••
, ,									
2005-	- - 5.50	20	D					(3.30)	<u>•</u> ••••
1.81	- 0.00	20			1,			(0.00)	
<u>.</u>	- - - 6.00-6.12		SPT	25/100	Ţ			_	
<u> </u>	6.00-6.12	22	DSPT	for 75mm				-	· • · · · · · · · · · · · · · · · · · ·
	6.00-6.50	23	B					_	
ָ บั	<u>.</u>							-	
מוצאווו מ	- - - 7.00	24	D		1			_	
N CON	7.30	106	ES	1xT+1xJ+1xV	Ť	⋭⋕⋭	Stiff reddish brown mottled grey gravelly sandy silty CLAY. Sand is fine.	7.30	× · · ×
) 5	- 7.50 - 7.50-7.83	100	SPT	6,10/25,25,50			Gravel is fine of mudstone and siltstone.	(0.70)	
Casuciol u,	7.50-7.83	26	DSPT	for 30mm				,	<u>* </u>
	7.50-8.00 8.00-8.50	27 28	B B				Reddish brown sandy subangular to subrounded, predominantly coarse,	8.00	<u>0,0,00</u>
y olleet,	. 0.00-0.00	20	٥				GRAVEL of mixed lithologies including sandstone, mudstone, siltstone and flint. Sand is fine to coarse. With low cobble content of flint.	8.50	0.00.0
	8.50-9.00	29	В			***	Description on next sheet	- 0.30	×
meries, rouery	8.50 8.50	30 107	D ES	1xT+1xJ+1xV				[× × ×
g L		ш						L	· ~ · -

l ne		Boring Pro	ogress and	Water C	bservations	i	Chise	lling / Slow	Progress	General Remarks				
stletord:	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)					
ılis Ltd, brancn ∪πice - ∪a:	29/09/22 30/09/22 30/09/22	17:00 08:00 13:00	7.83 7.83 10.84	7.50 7.50 9.00	150 150 150	7.30 5.10 4.40	6.00 8.00	6.20 8.50	00:30 01:00	 Position cleared using CAT and Genny. Hand dug inspection pit to 1.20m. Borehole drilled using 150mm tools and casing. Not enough sample between 7.30 and 7.50 to take geotechnical sample. Groundwater strike at 10.30m. Rose to 7.10m in 20 minutes. Borehole installed with 50mm standpipe on 				
Structurai oc	Method Used: Inspection pit + Cable percussion					ando 250	00	Drilled By:	Robert Foster	All dimensions in metres Scale: 1:50 Logged RStan By: AGS AGS				

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07_1 Log CABLE PERCUSSION LOG - A4P | 785514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford. The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 18:40 | TC9 |

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STRUCTURAL SOILS

BOREHOLE LOG

Contract:				Client:		Borehole	e:			
EMG Pha	se 2				SEGRO					
Contract Ref:	Start:	29.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:				
765514	End:	30.09.22		75.02	E:445636.3 N:325137.2		2	of	2	

9.00-9.29 32 DSPT 9.00-9.50 33 B Gravel is fine grey siltstone (MERCIA M (stratum cop))	Description of Strata (Th ness stiff reddish brown gravelly sandy silty CLAY. Sand is fine. e angular to subangular of mudstone. Occasional bands of e. UDSTONE GROUP) ied from 8.50m from previous sheet)	S) Leger	nd
9.00-9.29 32 DSPT 8,16/40,60 for 65mm Gravel is fine grey siltstone (MERCIA M (stratum cop))	e angular to subangular of mudstone. Occasional bands of [e. UDSTONE GROUP)	4)	X
(a) [10.00 34 D]		× 0	
		<u> </u>	 X
2 10.50-10.84 SPT 13,12/20,30,50 for 70mm	10	M	
for 70mm	ssion borehole terminated at 10.84m depth.	34	
teries, P.			

		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow I	Progress	Canaral Damarka
	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (bburger)	General Remarks
ž L	Date	1	Depth	Depth	(mm)	Depth			(hh:mm)	completion
ils Etd, Dianon Cilico - Ca										completion. 7. SPT hammers AR1862-2022 (<i>E_r</i> = %) , AR2153-2022 (<i>E_r</i> = 60.00%) used.
5										All dimensions in metres Scale: 1:50
	Method Used:				it d: D a	ando 250		Drilled By:	Robert Foster	Logged RStan Checked By: AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 Pnfversion: v8_07 | Log CABLE PERCUSSION LOG - A4P | 785514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/1/2/22 - 18:40 | TC9 |



BOREHOLE LOG

Contract:				Client:		Borehole			
EMG Pha	se 2				SEGRO			CF	P11
Contract Ref:	Start:	30.09.22	Groun	nd Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	03.10.22		68.97	E:445598.3 N:324907.3		1	of	1

	Sam	ples a	nd In-si	tu Tests	Water	Backfill & Instrumentation	5 (0.)	Depth	Material
	Depth	No	Туре	Results	×	Back Inst	Description of Strata	(Thick ness)	Graphic Legend
TC9	- 0.00-0.50 - 0.00 - 0.01 - 0.30 - 0.50-1.00 - 0.70	1 2 101 102 3 4	B D ES ES B D				TOPSOIL Stiff reddish brown mottled grey slightly gravelly sandy SILT. Sand is fine to coarse. Gravel is subangular to subrounded fine of mixed lithologies including sandstone, siltstone and mudstone.	0.30	* * * * * * * * * * * * * * * * * * *
Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 18:40 TC9	- 1.00-1.65 - 1.20-1.65 - 1.20-1.65 - 1.20-1.65	103 5 6	ES SPT DSPT B	N=29				- - - - - -	* *** *
lk.	_ 1.75 -	7	D						* ×•× *
sk@soils.co.u	- 2.00-2.45 - - - -	8	UT	29 blows 40% recovery				- - - - -	*
nail: as	2.65	9	D					-	× × × ×
soils.co.uk, Er	3.00-3.45 3.00-3.45 3.00-3.45	10 11	SPT DSPT B	N=67				(5.90)	· · · · · · · · · · · · · · · · · · ·
: www.	3.75	12	D					-	× × ×
-552299, Web	4.00-4.45 4.00-4.45 4.00-4.45	13 14	SPT DSPT B	N=94				- - - -	× · × · × · × · × · × · × · × · × · × ·
01977	4.75	15	D					-	, ×, ×,
-552255, Fax:	5.00-5.45 5.00-5.45 5.00-5.45	16 17	SPT DSPT B	N=90				-	× · × · × · × · × · × · × · × · × · × ·
: 01977	5.75	18	D						×° × ×
J. Tel	6.00-6.45		SPT	9,7/13,15,27,45				6.20	× × × ×
, WF10 1N	6.00-6.45	19 20	DSPT B	for 70mm			Stiff to very stiff reddish brown gravelly sandy silty CLAY. Sand is fine. Gravel is angular to subangular of mudstone. Occasional pockets of grey siltstone.	(1.09)	× × ×
shire	6.75	21	D				(MÉRCIA MUDSTONE GROUP)	(,	× - ×
t York	- 7.00-7.29 -		SPT	16,9/41,44,15 for 10mm				- 7.29	<u> </u>
d, Wes	7.00-7.29	22	DSPT	IOI IOIIIIII			Cable percussion borehole terminated at 7.29m depth.	7.20	
Potteries, Pottery Street, Castleford, West								- - - - - - - - - - - -	

ne L		Boring Pr	ogress and	Water C	bservations	1	Chisel	ling / Slow	Progress	General Rema	rko
tleford:	Date	Time	Borehole Depth	Casing Depth	Diameter	Water Depth	From	То	Duration (hh:mm)	General Rema	IIKS
ils Ltd, Branch Office - Cas	30/09/22 03/10/22 03/10/22	l	6.00 6.00 7.29	6.00 6.00 7.00	150 150 150 150	Dry - -	3.50 6.50	3.90 7.00	00:40 00:30	Position cleared using CAT and 0 Hand dug inspection pit to 1.20m Borehole drilled using 150mm toc No groundwater encountered dur Borehole installed with 50mm stacompletion. SPT hammer DS5-1-22 (E _r = 61.	bls and casing. ing drilling. andpipe upon
So										All dimensions in metres Scale:	1:50
tructura	Method Inspection pit + Used: Cable percussion					ando 200	0	Drilled By:	Nathan Topping	Logged RStan Checke By: By:	ed AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07_1 Log CABLE PERCUSSION LOG - A4P | 785514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford. The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 18:40 | TC9 |

BOREHOLE LOG

Contract:				Client:		Borehole	e:			
EMG Pha	se 2				SEGRO					
Contract Ref:	Start:	30.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:				
765514	End:	30.09.22		89.36	E:446517.1 N:325155.1		1	of	2	

	Sam	ples a	nd In-si	tu Tests	Water	Backfill	D	Depth	Material
	Depth	No	Туре	Results	8	Bac	Description of Strata	(Thick ness)	Graphic Legend
_	0.00-0.50 0.10-0.10 0.30-0.30 0.50-1.00 0.50-0.50	1 101 2 3 102	B ES B B				TOPSOIL Firm dark reddish brown mottled grey gravelly sandy silty CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of	0.40	X X
	1.00-1.00	103	D ES				mixed lithologies including sandstone, limestone and quartz.	- - -	
112122 - 10.	1.20-1.65 1.20-1.65 1.20-1.65	5 6	SPT DSPT B	N=13				- - - -	x x x
	1.75-1.75	7 8	D UT			/// /// ///		- - -	× · · · · · · · · · · · · · · · · · · ·
IN, Email. acnæccirc. c	2.75-2.75 3.00-3.45	9	D SPT	N=8				(4.50)	x · · × · · × · · · × · · · × · · · × · · · × · · · · × · · · · × · · · · × · · · · × · · · · × · · · · × · · · · × · · · · × · · · · · × · · · · · · × ·
ww.solls.co.	3.00-3.45 3.00-3.45	10 11	DSPT B					- - - -	×
22500, 1100	4.00-4.45	13	D UT					- - - - -	xx. x - x
20-1-10-10	4.65-4.65	14	UT					4.90	- X - X
1-002200, I av.	5.00-5.45 5.00-5.45 5.00-5.45	15 16	SPT NR B	N=4			Soft orangish brown gravelly sandy SILT. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of mixed lithologies including sandstone and siltstone.	(1.30)	***** * *** * * * * * * * * * * * * * *
2	5.75	17	D					-	× · · × × · × · × · × ·
	6.00-6.45 6.00-6.45 6.00-6.50	18 19	SPT DSPT B	N=36			Stiff to very stiff reddish brown gravelly sandy silty CLAY. Sand is fine. Gravel is angular to subangular fine to coarse of mudstone, occasionally siltstone. (MERCIA MUDSTONE GROUP)	6.20	×× ×× ×× ××
201	7.00	20	D					- - - -	
	7.50-7.94	21	SPT DSPT	4,10/16,24,29,31 for 60mm				(3.16)	~ <u>* </u>
ies, rouery orieer, o	-7.50-8.00 - - - - 8.50	22	B D					- - - - - - -	
] [- ,						r././.			<u> </u>

	Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow	Progress	General Remarks			
Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General Re	emarks		
05/10/22	17:00	Depth	Depth	(mm)	Depth	9.90	0.00	, , ,	1. Position cleared using CAT			
05/10/22	17:00	9.36	9.00	150	-	8.80	9.00	00:30	Hand dug inspection pit to SPT hammer DS5-1-22 (E)			
									All dimensions in metres So	cale: 1:50		
Method Used:	Cable p	ercussic	Plan Used	ī	ındo 200	0	Drilled By:	Nathan Topping	33 I tOta II -	Checked AGS		

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PnVersion: v8_07_1 Log CABLE PERCUSSION LOG - A4P | 785514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk, | 11/12/22 - 18:40 | TC9 |

BOREHOLE LOG

Contract:				Client:		Borehole	e:	:		
EMG Pha	se 2				SEGRO					
Contract Ref:	Start:	30.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:				
765514	End:	30.09.22		89.36	E:446517.1 N:325155.1		2	of	2	

			Litter			20.00		<u> </u>
Sa	mples a	and In-si	tu Tests	Water	Backfill	Decarinties of Charts	Depth (Thick	Material Graphic Legend
Depth	No		Results	×		Description of Strata	ness)	Legend
- 9.00-9.36		SPT	10,11/26,37,37 for 60mm				9.36	
9.00 9.00-9.36	104 24	ES DSPT				Cable percussion borehole terminated at 9.36m depth.	-	
-							-	
							-	
-							-	
E							-	
E							[-	
F							-	
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		Boring Pro	ogress and	Water Ob	servations		Chise	lling / Slow	/ Progress	General	Domorl	40	
	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Reman	KS	
. —			Depth	Depth	(mm)	Depth			(
										All dimensions in metres	Scale:	1:50	
N	1ethod			Plan	t			Drilled	Nathan	Logged RStan	Checked		
U	Used: Cable percussion				Used: Dando 200			15		By:	By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07_1 Log CABLE PERCUSSION LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford. The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk, | 11/12/22 - 18:40 | TC9 |

BOREHOLE LOG

Contract:				Client:	Client:				
EMG Pha	se 2						C	P13	
Contract Ref:	Start:	05.10.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	05.10.22		77.14	E:446416.1 N:324961.0		1	of	2

				≒	🔀	Description of Otroto	Depth	Material
Depth	No	Туре	Results	Water	Backfill	Description of Strata	(Thick ness)	Graphic Legend
- 0.10 - 0.10-0.20 - 0.20 - 0.40 - 0.60 - 0.60-0.80	1 2 101 102 3 4	D B ES D B	1xT+1xJ+1xV 1xT+1xJ+1xV			TOPSOIL Soft light orangish brown slightly sandy gravelly SILT. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of sandstone and mudstone.	0.30	**************************************
1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20	5 7 8 103	D SPT B B ES	N=10 1xT+1xJ+1xV			Soft slightly sandy gravelly reddish brown CLAY. Sand is mudstone derived fine to medium. Gravel is subangular to rounded fine to coarse of	1.70	*
2.40 2.40 2.40 2.50-2.95 2.50-2.95 2.50-2.95 3.00 3.30	9 104 11 12	D ES SPT DSPT B	1xT+1xJ+1xV N=9			sandstone, mudstone and siltstone. Firm light orangish brown slightly sandy gravelly SILT. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of sandstone and mudstone.	2.30	**************************************
3.30 - 3.30 - 3.50-3.95 - 3.50-3.95 - 3.50-3.95 - 4.00-4.50	23 13 15 16 17	W D SPT DSPT B B	N=12			Long multipliered (grapping blue red white gray) slightly conductions	4.00	× × × × × × × × × × × × × × × × × × ×
4.50-4.95 4.50-4.95	19	SPT(c) B	N=5			Loose multicolored (greenish blue, red, white, grey) slightly sandy clayey subangular to rounded fine to coarse GRAVEL of siltstone, mudstone, sandstone, quartzite and chalk. With low cobble content, cobbles are subrounded (<100mm). Sand is fine to coarse.	(1.60)	
5.70 - 5.70 - 6.00-6.45 - 6.00-6.45	20	D SPT DSPT	N=31			Stiff becoming very stiff reddish brown mottled grey slightly sandy gravelly CLAY. Sand is mudstone derived fine to coarse. Gravel is subrounded to rounded of siltstone, sandstone and mudstone. Occasional bluish grey silt beds up to 5cm thick.	(0.60)	
2	24 25	ВВ				Medium dense multicolored (greenish blue, red, white, grey) slightly sandy clayey rounded to subangular fine to coarse GRAVEL of siltstone, mudstone, sandstone, quartzite and chalk with low cobble content. Sand is fine to coarse. Cobbles are subrounded of siltstone, quartzite and sandstone up to 10cm in size.	(1.40)	
7.30 7.50-7.86 7.50-7.95	26	D SPT(c) B	6,9/11,20,19 for 60mm			Extremely weak light reddish brown mottled grey MUDSTONE. (MERCIA MUDSTONE GROUP)	7.60	
8.30 - 8.30 - 8.50-8.72 - 8.50-8.72	29 31	D SPT DSPT	25/42,58 for 70mm				(1.64)	

		Boring Pro	ogress and	Water Ob	servations		Chisel	lling / Slow F	Progress	Conoral	Domarka
	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remarks
	2 4.10		Depth	Depth	(mm)	Depth			(1111.111111)	1 Desition algored using (CAT and Canny
' [05/10/22	18:36	6.00	6.00	200	4.10	5.80	6.00	00:30	Position cleared using (Hand dug inspection pit	
	06/10/22	07:35	6.00	6.00	200	3.10	8.50	9.00	01:00	3. SPT hammer AR3104-	
	06/10/22	16:00	9.24	8.50	200	-					(<u>_</u> ,
i											
;											T
										All dimensions in metres	Scale: 1:50
	Method	Inspec	tion pit -	⊦ Plan	t			Drilled		Logged RStan	Checked
;	Used:		ercussio		d: Da	ando 300	000 By: Jonny Hutt			tt By:	By: AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log CABLE PERCUSSION LOG - A4P | 785514 EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552399, Web: www.solis.co.uk, Email: ask@solis.co.uk, | 11/12/22 - 18:41 | TC9 |



BOREHOLE LOG

Contract:				Client:		Borehole	e:		
EMG Pha	se 2				SEGRO			C	P13
Contract Ref:	Start:	05.10.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	05.10.22		77.14	E:446416.1 N:324961.0		2	of	2

	Samples and In-situ Tests Depth No Type Results					Backfill	Description of Strata	Depth (Thick	Material Graphic Legend
				Results	Water		Description of official	ness)	Legend
- 8.50 - 9.00	0-9.00 0-9.24	32	B SPT	20,5/34,56,10 for 10mm		///		9.24	
L	0-9.24	34	DSPT	for 10mm			Cable percussion borehole terminated at 9.24m depth.	-	
- F								-	
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		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow	Progress	General	Domorle	′ 0	
	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remark	S	
ź			Depth	Depth	(mm)	Depth			(1111.11111)				
<i>i</i> [
3													
5													
5													
5													
ן נ													
1													
{											1		
										All dimensions in metres	Scale:	1:50	
į [Method	Inspec	tion pit -	• Plan	it	•		Drilled	-	Logged RStan	Checked		
						ando 300	n	By:	Jonny Hut	D	By:		AGS
ίL		Cable p	CICUSSIC	711	Used: Dando 3000				Joining Fluc		,		Auto

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07_1 Log CABLE PERCUSSION LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford. The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk, | 11/12/22 - 18:41 | TC9 |

BOREHOLE LOG

Contract:			Client:		Borehole	: :		
EMG Pha	se 2			SEGRO			CI	P14
Contract Ref:	Start: 04.10.22	Ground	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End: 04.10.22		78.39	E:446524.3 N:324946.9		1	of	1

	Samp	oles a	nd In-si	tu Tests	Water	Backfill	Description of Otroto	Depth	Material
	Depth	No	Туре	Results	×	Bac	Description of Strata	(Thick ness)	Graphic Legend
- F3	- 0.00-0.50 - 0.10 - 0.30-0.50 - 0.50-1.00 - 0.50 - 0.70	1 101 2 4 102 3	B ES D B ES D				TOPSOIL Stiff dark reddish brown gravelly sandy SILT. Sand is fine to coarse. Gravel is angular to subangular fine to coarse of mixed lithologies including sandstone, siltstone, mudstone and quartz.	0.40	** * * * * * * * * * * * * * * * * * *
12/22 - 18:41 IC9	- 1.00 - 1.20-1.65	103 5	ES UT				Stiff reddish brown, mottled grey, slightly gravelly sandy SILT. Gravel is angular to subangular fine of mixed lithologies including siltstone and mudstone.	-	** * * * * * * * * * * * * * * * * * *
soils.co.uk. 11,	1.65 - - 2.00-2.45 - 2.00-2.45 - 2.00-2.45	6 7 8	SPT DSPT B	N=16				(2.90)	× · · · × · · · · · · · · · · · · · · ·
soils.co.uk, Email: ask@soils.	- - - 2.75 - - 3.00-3.45 - 3.00-3.45 - 3.00-3.45	9 10 11	D SPT DSPT B	N=17				- - - - - - -	* ^ · · · · · · · · · · · · · · · · · ·
Z99, Web: www.soils	3.75 -3.80 -3.80 -3.80 -4.00-4.45 -4.00-4.45	12 104 105	D ES ES SPT B	N=26			Firm orangish brown, occasionally gravelly, sandy silty CLAY. Sand is fine. Gravel is subangular to subrounded fine to coarse of mixed lithologies including sandstone and siltstone.	3.80	**************************************
, Fax: 01977-552	- - - - - 5.00-5.45		SPT(c)	N=42			Medium dense orangish brown very sandy silty angular to subangular fine to coarse GRAVEL of predominantly flint. With low cobble content. Sand is fine.	-(0.90) - 5.30	
lel: 01977-55225	5.00-5.45 - - - - - - - - - - - - - - - - - - -	16		N=55			Very stiff reddish brown sandy gravelly silty CLAY. Sand is fine to coarse. Gravel is angular to subangular fine to coarse, occasional cobbles, of mudstone. (MERCIA MUDSTONE GROUP)	-(1.60)	x - x
re, WF10 1NJ.	- 6.00-6.45 - 6.00-6.45 - 6.40-6.45	17 18	SPT B B	N-33				6.90	× × × × × × × × × × × × × × × × × × ×
st	- - 7.00 - - -	19	D				Very stiff reddish brown gravelly sandy silty CLAY. Gravel is angular to subangular fine of mudstone. Occasional pocket of grey siltstone. (MERCIA MUDSTONE GROUP)		· · · · · · · · · · · · · · · · · · ·
Street, Castleford, We	7.50-7.95 7.50-7.95 7.50-7.95 8.00-8.40	20 21	SPT DSPT B SPT	6,11/13,20,32,35 for 70mm 10,14/18,28,41,13				[-(1.50)	x x
Pottery	8.00-8.40	22	DSPT	for 20mm		///	Cable percussion borehole terminated at 8.40m depth.	8.40	<u>- </u>
Potteries,	-								

<u>Pe</u>		Boring Pr	ogress and	Water C	bservations		Chise	lling / Slo	w Progress	Caparal	Domorko	
stletord:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remarks	
asti			Depth	Depth	(mm)	Depth			(1111.11111)	4. Danitian alasmad visinas (NAT and Canal	
s Ltd, Branch Office - Ca	04/10/22	16:00	8.40	8.00	150	-	4.50 7.50	5.00 8.00		Position cleared using (Hand dug inspection pit SPT hammer AR3104-	to 1.20m.	d.
Soil										All dimensions in metres	Scale: 1:50	
Structura	Method Used:	Cable p	ercussio	on Us		ando 200	00	Drilled By:	Jonny Hut	Logged RStan By:	Checked By: AG	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PnVersion: v8_07_1 Log CABLE PERCUSSION LOG - A4P | 785514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk, | 11/12/22 - 18:41 | TC9 |

BOREHOLE LOG

Contract:				Client:		Borehole) :		
EMG Pha	se 2				SEGRO			CF	P15
Contract Ref:	Start:	03.10.22	Groun	nd Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	03.10.22		71.98	E:446551.5 N:324799.4		1	of	1

	Samı	ples a	ınd In-si	tu Tests	Water	Backfill	Description of Charts	Depth	Material
	Depth	No	Туре	Results	×	Bac	Description of Strata	(Thick ness)	Graphic Legend
8:41 TC9	- 0.00-0.50 - 0.10 - 0.30 - 0.50-1.00 - 0.70 - 1.00	1 101 2 3 102 4 103	B ES D B ES D ES				TOPSOIL Stiff reddish brown slightly gravelly sandy SILT. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of mixed lithologies including sandstone, siltstone and quartz.	(1.10)	**************************************
11/12/22 - 1	- 1.20-1.65 - 1.30 	5 104 6	UT ES D				Stiff reddish brown mottled grey slightly gravelly sandy silty CLAY. Sand is fine. Gravel is angular to subangular fine to coarse of mixed lithologies including siltstone and mudstone.	(1.00)	× · · × · · × · · × · · · × · · · × · · · · × ·
Email: ask@soils.co.uk.	2.00-2.45 2.00-2.45 2.00-2.45 2.30 2.75	7 8 105	SPT DSPT B ES	N=9			Stiff to very stiff reddish brown gravelly sandy silty CLAY. Gravel is angular to subangular fine to coarse of mudstone. Occasional pockets of grey mudstone and siltstone. (MERCIA MUDSTONE GROUP)	2.30	x - x - x - x - x - x - x - x - x - x -
www.soils.co.uk, E	3.00-3.45 3.00-3.45 3.00-3.45 3.75	10 11	SPT DSPT B	N=12				- - - - - -	×
977-552299, Web:	- 4.00-4.45 [4.00-4.45 [4.00-4.45	13 14	SPT DSPT B	N=75				- - - - - -	x - x
7-552255, Fax: 019	- 4.75 - 5.00-5.45 - 5.00-5.45 - 5.00-5.45	15 16 17	D SPT DSPT B	N=48				(5.96)	
Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 18:41 TC9	5.75 - 6.00-6.45 - 6.00-6.45 - 6.00-6.45	18 19 20	D SPT DSPT B	N=38				- - - - - - - - -	* - × - × - × - × - × - × - × - × - × -
est	- - 7.00 -	21	D					- - - -	x x - x x
otteries, Pottery Street, Castleford, We	7.50-7.86 7.50-7.95 -7.50-8.00 8.00-8.26	22 23	SPT DSPT B SPT	10,15/21,32,47 for 60mm 14,11/30,48,22 for 20mm				8.26	x - x - x - x - x - x - x - x
tteries, Pottery (8.00 - 8.00-8.26	106 24	ES DSPT	101 20111111			Cable percussion borehole terminated at 8.26m depth.	- - - -	

<u> </u>		Boring Pro	ogress and	Water O	bservations		Chisell	ing / Slow	Progress	Conoral	Remarks
	Date	Time	Borehole	U	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remarks
ž			Depth	Depth	(mm)	Depth			(4. Desition alcoholysismu (DAT and Campu
IIS Ltu, brantin Omce - O	03/10/22	16:00					7.50	8.00	00:30	 Position cleared using (Hand dug inspection pit Borehole drilled using 1 No groundwater encour Borehole backfilled with completion. SPT hammer DS5-1-22 	to 1.20m. 50mm tools and casing. ntered during drilling. bentonite upon
00										All dimensions in metres	Scale: 1:50
Inucture	Method Used:		tion pit -			ando 200		Drilled By:	Nathan Topping	Logged RStan By:	Checked By: AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07_1 Log CABLE PERCUSSION LOG - A4P | 785514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford. The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 18:41 | TC9 |

BOREHOLE LOG

Contract:				Client:		Borehole	e:		
EMG Pha	se 2				SEGRO			CI	P16
Contract Ref:	Start:	04.10.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	04.10.22		77.24	E:446244.3 N:324933.8		1	of	2

	Samp	oles a	nd In-sit	tu Tests	Water	Backfill &	ation	Description of Charte	Depth	Material Graphic
	Depth	No	Туре	Results	Me	Back	ment	Description of Strata	(Thick ness)	Legend
	- 0.10-0.30 - 0.10 - 0.40-0.70 - 0.50	1 101 2 3	B ES B D	1xT+1xJ+1xV				TOPSOIL Stiff orange brown gravelly sandy silty CLAY. Gravel is subangular to subrounded fine to coarse of mixed lithologies including sandstone,	0.35	1/ · 1/ · 1/ · 1/ · 1/ · 1/ · 1/ · 1/ ·
65	0.50	102	ES	1xT+1xJ+1xV				quartz, chalk and siltstone.	-	*- <u>* · ·</u>
2 - 18:41 IC9	-0.90-1.20 - 1.00 - 1.00	4 5 103	B D ES	1xT+1xJ+1xV					- - - -	× · · ×
co.uk. 11/12/2	1.50-1.94 1.50-1.94 1.50-1.94	7 8	SPT DSPT B	N=49					(3.05)	× · · × · · ×
all: ask@solls.	- - - 2.50-2.95	9	UT _(UT100)	100 blows 100% recovery					-	x
o.uk, Em	_2.95-3.10 - -	10	D						3.40	* xo :
99, Web: www.soiis.co.uk,	3.40 3.40 - 3.50-3.95 - 3.50-3.95 - 3.50-3.95	11 104 13 14	D ES SPT DSPT B	N=19				Stiff dark reddish brown mottled grey gravelly sandy silty CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of mixed lithologies including sandstone, siltstone, mudstone.		x . x x x x x x x x
01977-55Z2S	- - 4.50-4.95	15	UT _(UT100)	100 blows 100% recovery	<u>1</u>				(2.35)	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
-552255, Fax:	- 5.00 - - - - - 5.50	16 17	D D		1				- - - - -	× · · · ×
`	- 5.30 - - 5.80	105	ES	1xT+1xJ+1xV	<u>_</u>	.∵ !	· · ·	Stiff grey very sandy silty CLAY. Sand is fine to coarse.	5.75	× · · ×
nre, wrto ind. iei: 0197	- 6.00-6.45 - 6.00-6.45 - 6.00-6.45 	19 20	SPT DSPT B	N=65					- - - - - - -	xxx xx xx
st	- - 7.00	21	D						(3.25)	x · · · ·
Potteries, Pottery Street, Castleford, We	- - - 7.50-7.95 - -	22	UT _(UT100)	125 blows 100% recovery		· · · · · · · · · · · · · · · · · · ·	***		(3.23)	× · · ×
Street, Ca	- - 8.00 -	23	D				•••		- - -	× - × - ×
es, Pottery	- - 8.50 -	24	D				 		-	x · · · ×
Potteri	-					ľ∙:E	!• : •		9.00	<u></u> × · · ·

		Boring Pro	ogress and	Water 0	Observations		Chise	lling / Slow	Progress	Conoral	Remarks
stiction.	Date	Time	Borehole Depth	Casino Depth	' Diameter	Water Depth	From	То	Duration (hh:mm)		
alicii Oilice	04/10/22 05/10/22 05/10/22 06/10/22 06/10/22	Depth Depth (mm) Depth 0/22 17:00 3.10 2.50 150 E 0/22 08:00 3.10 2.50 150 E 0/22 17:15 11.15 10.50 150 E 0/22 08:00 11.15 10.50 150 9 0/22 11:15 11.15 10.50 150 9				Dry Dry - 9.25 -	10.50	11.00	01:00	Position cleared using 0 Hand dug inspection pit Borehole drilled using 1 15 litres of water added 2.50m to aid drilling. No groundwater encour SPT hammer AR1862- All dimensions in metres	to 1.20m. 50mm tools and casing. between 1.20m and
Olluciule	Method Inspection pit + Plant Used: Cable percussion Used: Dando 2					ando 250	0	Drilled By:	Robert Foster	Logged RStan By:	Checked By: AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07_1 Log CABLE PERCUSSION LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford. The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk, | 11/12/22 - 18:41 | TC9 |



BOREHOLE LOG

Contract:				Client:		Borehole	e :		
EMG Pha	se 2				SEGRO			CF	P16
Contract Ref:	Start:	04.10.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	04.10.22		77.24	E:446244.3 N:324933.8		2	of	2

	-			Elia.	•	·	11121 211102111011102100010		· _
	Samp	oles a	nd In-si	tu Tests	Water	fill & ru- ation		Depth	Material
	Depth	No	Туре	Results	Wa	Backfill & Instru- mentation	Description of Strata	(Thick ness)	Graphic Legend
	9.00-9.45 9.00 9.00-9.45 9.00-9.45	106 26 27	SPT ES DSPT B	N=48 1xT+1xJ+1xV		°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°	Stiff reddish brown mottled grey gravelly sandy silty CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of mixed lithologies including sandstone, siltstone and mudstone. (MERCIA MUDSTONE GROUP)	(1.00)	x x x
/22 - 18:41 TC9	- - 10.00-10.50 - 10.00	28 107	B ES	1xT+1xJ+1xV			Stiff to very stiff reddish brown gravelly sandy silty CLAY. Sand is fine. Gravel is angular to subangular fine to coarse of mudstone. Occasional bands of grey siltstone.	10.00	x · · · · · · · · · · · · · · · · · · ·
11/12	10.50-10.70	20	SPT	25/50,50 for 55mm			(MERCIA MUDSTONE GROUP)	[× × ×
Email: ask@soils.co.uk. 11/12/22	10.50-10.70 10.50-11.00 11.00-11.15	30 31	DSPT B SPT	25/60,40 for 40mm			Cable percussion borehole terminated at 11.15m depth.	11.15	× · · ·
sk@soi	11.00-11.15	33	DSPT	101 40111111			·	-	
mail: a	- - -							-	
	- - -							-	
soils.c	- - -								
D: www	- - -								
99, We									
7-5522	- - -							-	
x: 0197	- - - -								
Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk,	- - -							-	
77-552	- - -							<u> </u>	
el: 019	- - -							_	
1NJ. T	- - -							-	
, WF10	- - -							-	
rkshire	- - -							- -	
	- - -							- -	
eford, W	- - -								
, Castle	- - -							-	
Street	- - -							<u>-</u>	
eries, Pottery Street, Castleford, West	- - -							[
eries,	- -							<u> </u>	

ſ		Boring Pro	ogress and	Water Ob	servations		Chisel	ing / Slow F	Progress	General	Domorl		
Ī	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Reman	(5	
L			Depth	Depth	(mm)	Depth			(,				
١ ا													
										All dimensions in metres	Scale:	1:50	
	Method	Inspec	tion pit -	+ Plan	t			Drilled	Robert	Logged RStan	Checked		
	Used:		ercussio		d: Da	ando 250	0	Ву:	Foster	By:	By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07_1 Log CABLE PERCUSSION LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford. The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk, | 11/12/22 - 18:41 | TC9 |



BOREHOLE LOG

Contract:				Client:		Borehole	e:		
EMG Pha	se 2				SEGRO			CI	P17
Contract Ref:	Start:	15.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	05.10.22		82.31	E:446263.8 N:325045.2		1	of	2

	Samp	oles a	nd In-sit	u Tests	Water	Backfill & Instru-	tation	Description of Strata	Depth (Thick	Material Graphic
	Depth	No	Туре	Results	>	Bac	men	·	ness)	Legend
0.1 - 0.1 - 0.2 - 0.2 - 0.6	00-0.00 10 10-0.20 10 20 40 60 60-0.80	1 2 101 101 102 3 4 5		1xT+1xJ+1xV 1xT+1xJ+1xV				TOPSOIL Firm reddish brown slightly sandy gravelly CLAY. Sand is fine to medium. Gravel is subangular to rounded fine to coarse of quartzite, sandstone, mudstone and chalk. Frequent bluish grey silt beds (<50mm thick).	0.30	
1.5	50-1.70 70-1.80	6 7	UT _(UT100) D	100 blows 100% recovery					- - - - - -	
2.5	50-2.95 50-2.95 50-2.95	8 10 11	D SPT DSPT B	N=25				Below 2.50m: becoming stiff.	(5.10)	
3.5	30 50-3.95 50-3.95 95-4.05	12 13 14 14	D UT _(UT100) D D	100 blows 89% recovery					-	
4.5	30 50-4.95 50-4.95 50-4.95	15 17 18	D SPT DSPT B	N=35					- - - - - - -	
- 5.5 - 5.7		103 19	ES D	1xT+1xJ+1xV				Light reddish brown mottled grey sandy gravelly SILT. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of mudstone and sandstone. Low cobble content (<80mm) of mudstone and sandstone. Frequent bluish grey siltstone beds (<50mm thick).	5.40	\$\frac{1}{2}\times\cdot{\lambda}{\lambda}\tim
6.0	00-6.45 00-6.45 00-6.45	21 22	SPT DSPT B	N=25					- - - - - - - - - -	X
7.5	30 50-7.95	23 24	D UT _(UT100)	80 blows 89% recovery				\dots . Below 7.30m: slightly sandy slightly gravelly. Gravels decreasing in size.	- - - - -	
7.9	95-8.05	25	D						(5.30)	Ŏ.×°.,;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
8.7	70	26	D						-	× 0.0 × 0.0

Method	Insp	ection	pit + Plan	t			Drilled		completion. All dimensions in metres Scale: Logged RStan Check By: By:	1:5	
04/10/22 05/10/22 05/10/22	17:45 08:15 12:00	5 16.	00 16.00	200 200 200	12.10 10.40 -	16.60	17.00	01:00	Hand dug inspection pit to 1.20r Borehole drilled using 150mm to Water added between 15.00m a drilling. No groundwater encountered du Borehole installed with 50mm st	m. ools and and 16.00 uring drilli	Om to ing.
Date	Time	De	pth Depth	Diameter (mm)	Depth	From	To	(hh:mm)	1. Position cleared using CAT and	Gennv.	
	Boring	Progress Bore	s and Water Ob hole Casing	Borehole	Water	Chisell	ing / Slow F	Progress	General Rem	arks	
8.70	26	D								-	* 8 * 8 * ×
7.95-8.05 - - - - -	25	D								[0.30)	× 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0
- - -	24	UT _(UT100)	80 blows 89% recovery		3126.					(5.30)	× % ×
- - - - 7.30 - 7.50-7.95	23	D	80 blows		B	elow 7.30r	m: slightly s	andy sligh	tly gravelly. Gravels decreasing in	-	× × × × × × × × × × × × × × × × × × ×
6.00-6.45 6.00-6.45 6.00-6.45	21 22	DSPT B	14-25							-	% % % % % %
- 5.70 - - 6.00-6.45	19	D	N=25		sandst	one. Low	cobble cor	itent (<80r	mm) of mudstone and sandstone. 50mm thick).	-	Ö.×
- - - 5.50	103		1xT+1xJ+1xV		coarse	. Gravel is	angular to	subround	dy gravelly SILT. Sand is fine to ed fine to coarse of mudstone and	5.40	× Q,
4.50-4.95 4.50-4.95	17 18	DSPT B								-	
- 4.30 - 4.50-4.95	15	D SPT	N=35							-	
3.50-3.95 3.95-4.05	14	D D								-	
3.50-3.95	13	UT _(UT100)	100 blows 89% recovery							-	
- - - 3.30	12	D									- - -
- 2.30 - 2.50-2.95 - 2.50-2.95 - 2.50-2.95	8 10 11	D SPT DSPT B	N=25		Be	elow 2.50m	n: becoming	ı stiff.		(5.10)	
1.70-1.80	7	D	,							-	<u></u>
- 1.50-1.70	6	UT _(UT100)	100 blows 100% recovery							- -	· ·
- 0.20 _0.40 - 0.60 _ 0.60-0.80 - 1.20	101 102 3 4 5	ES ES D B	1xT+1xJ+1xV 1xT+1xJ+1xV		thick).	one, made		riaini. T 194	uent bluish grey silt beds (<50mm	- - - - -	



BOREHOLE LOG

Contract:				Client:		Borehole	e :		
EMG Pha	se 2				SEGRO			CI	P17
Contract Ref:	Start:	15.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	05.10.22		82.31	E:446263.8 N:325045.2		2	of	2

ĺ	Samp	oles a	nd In-si	tu Tests	Water Backfill & Instrumentation	Description of Otroto	Depth	Material
	Depth	No	Туре	Results	Ws Back Inst	Description of Strata	(Thick ness)	Graphic Legend
- 18:41 IC9	9.00-9.45 9.00-9.45 9.00-9.45	28 29	SPT DSPT B	N=44		Light reddish brown mottled grey sandy gravelly SILT. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of mudstone and sandstone. Low cobble content (<80mm) of mudstone and sandstone. Frequent bluish grey siltstone beds (<50mm thick). (stratum copied from 5.40m from previous sheet)	-	0
Email: ask@soils.co.uk. 11/12/22 - 18:	10.30 10.50-10.95 10.50-10.95 10.50-10.95 -10.80	30 32 33 104	D SPT DSPT B ES	N=60 1xT+1xJ+1xV		Firm to stiff greyish brown slightly sandy slightly gravelly SILT. Low cobble content. Sand is fine to medium. Gravel is angular to subrounded fine to medium of siltstone. Frequent bluish grey siltstone beds (<80mm).	10.70	× 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Email: ask@soil	11.70	34	D	N. 50		(Committy)	- - - - -	× × × × × × × × × × × × × × × × × × ×
	- 12.00-12.45 - 12.00-12.45 - 12.00-12.45	36 37	SPT DSPT B	N=58			(4.00)	×°°××°°°
01977-552255, Fax: 01977-552299, Web: www.soils.co.uk,	13.30 13.50-13.95 13.50-13.95 13.50-13.95	38 40 41	D SPT DSPT B	N=56	*** = • • • • • • • • • • • • • • • • •		- - - - - - - - - - - - -	**************************************
orkshire, WF10 1NJ. 1el: 01977-5522	14.70 - 15.00-15.45 15.00-15.45	42	D SPT(c) B	N=48		Dense multicolored (greenish blue, red, white, grey) sandy clayey subangular to rounded fine to coarse GRAVEL of siltstone, mudstone, sandstone, quartzite and chalk. Sand is fine to coarse. With low cobble content, subrounded of siltstone, quartzite and sandstone (<100mm).	14.70	
Street, Castleford, West Y	16.30 16.50-16.88 16.50-16.88 -16.50-16.90 17.00-17.21	45 47 48 50	D SPT DSPT B SPT DSPT	8,17/26,32,42 for 75mm 25/46,54 for 65mm		Cable percussion borehole terminated at 17.21m depth.	17.21	
Potteries, Pottery	• • •						- - -	

		Boring Pro	ogress and	Water Ol	oservations	1	Chise	lling / Slo	w Prog	ress	Conoral	Domorl	' 0	
	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То		uration h:mm)	General	Remair	15	
,			Depth	Depth	(mm)	Depth			(,,	, ,	7. SPT hammer AR3104-	2022 (<i>E</i> _r = 64	4.00%)	used.
}														
,														
											A II			
<u>'</u>										1	All dimensions in metres	Scale:	<u>1:50</u>	
	Method Used:		tion pit					Drilled	1		Logged RStan By:	Checked By:		A CAR
; [Oseu.	Cable p	ercussio	on Osc	u. Di	ando 300	10	Ву:	Jonn	ıy Hutt	Dy.	Dy.		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PnVersion: v8_07_1 Log CABLE PERCUSSION LOG - A4P | 785514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk, | 11/12/22 - 18:41 | TC9 |

BOREHOLE LOG

Contract:				Client:		Borehole) :		
EMG Pha	se 2				SEGRO			CI	P18
Contract Ref:	Start:	04.10.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	04.10.22		76.81	E:446057.8 N:324763.5		1	of	1

ĺ	Samp	ples a	ınd In-si	tu Tests	ter	III.		Depth	Material
	Depth	No	Туре	Results	Water	Backfill	Description of Strata	(Thick ness)	Graphic Legend
	0.10-0.30 0.10 0.40-0.70	1 101 2 3	B ES B	1xT+1xJ+1xV			TOPSOIL Stiff to very stiff reddish brown gravelly sandy silty CLAY. Sand is fine to coarse. Gravel is angular to subangular fine of mudstone. Occasional	0.35	
3:42 TC9	. 0.50 -0.90-1.20 -1.00	102 4 5	ES B D	1xT+1xJ+1xV			pockets of grey siltstone. (MERCIA MUDSTONE GROUP)	- - - - -	x x x x
1/12/22 - 18	1.00 - 1.50-1.95 - 1.50-1.95	103 7	SPT DSPT	1xT+1xJ+1xV N=24				- - - -	x · · · x
Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 18:42 TC9	1.50-1.95	8	В					- (4.50)	
Email: ask(- 2.50-2.95 - - - - 3.00	9	UT _(UT100)	125 blows 100% recovery				(4.50)	× · · ×
.soils.co.uk,	3.50-3.91	10	D SPT	6,10/16,25,36,23				-	× · · × · · ×
9, Web: www	3.50-3.91 -3.50-3.91	12 13	DSPT B	for 35mm				- - - -	x - x
01977-55228	4.50-4.85	104	SPT ES	15,10/17,27,56 for 70mm 1xT+1xJ+1xV				4.85	× · · ×
52255, Fax:	-4.50-4.85 -	15	DSPT				Cable percussion borehole terminated at 4.85m depth.	- - -	
Tel: 01977-5	- - - -							- - - -	
WF10 1NJ.	• • • •							- - - -	
	• • • •							- - -	
leford, West	-							-	
Street, Casi	- - - -							-	
otteries, Pottery Street, Castleford, West	- - - - -							- - - - -	

	Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow	Progress	Conoral	Domorko
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remarks
04/10/22	13:15	4.85	3.00	150	Dry	3.50	4.50	01:00	Position cleared using CAT ar Hand dug inspection pit to 1.2 Borehole drilled using 150mm Is litres of water added between drilling. So groundwater encountered of Borehole backfilled with bento programmer AR1862-2022 (E) All dimensions in metres	0m. tools and casing. en 1.20m and 4.50m to aid during drilling. nite upon completion.
Method Used:		tion pit +			ndo 250	0	Drilled By:	Robert Foster	Logged RStan By:	Checked By: AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PnVersion: v8_07_1 Log CABLE PERCUSSION LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Ltd, Branch Office - Castleford: The Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/1/2/22 - 18:42 | TC9 |



BOREHOLE LOG

Contract:				Client:			Boreho	ole:		
EMG Pha	se 2					SEGRO			CF	19
Contract Ref:	Start:	30.09	9.22	Ground Level (m	AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	30.09	9.22	76.75	5	E:445967.7 N:324839.4		1	of	1
Samples and In-situ Tests		-	=					Denth	Ма	terial

ĺ	0			Tt-	_			Ь "	Matarial
		1		tu Tests	Water	Backfill	Description of Strata	Depth (Thick	Material Graphic
	Depth	No	Type	Results	>	Ba		ness)	Legend
6	0.10-0.30 0.10 0.40-0.70 0.50	1 101 2 3 102	B ES B D ES	1xT+1xJ+1xV 1xT+1xJ+1xV			TOPSOIL Stiff dark orange brown slightly gravelly silty CLAY. Sand is fine to coarse. Gravel is angular to subangular fine of mixed lithologies including sandstone and siltstone.	(0.60)	
11/12/22 - 18:42 TC9	-0.90-1.20 1.00 1.00	4 5 103	B D ES	1xT+1xJ+1xV			Stiff to very stiff reddish brown gravelly sandy silty CLAY. Sand is fine to coarse. Gravel is angular to subangular fine to coarse of mudstone, occasionally bands of grey siltstone. (MERCIA MUDSTONE GROUP)	- 0.90 - - - - - -	x x
	- 1.50-1.95 - 1.50-1.95 - 1.50-1.98 	7 8	SPT DSPT B	N=25				- - - - -	x - x - x
Email: ask@sor	2.50-2.95 - 3.00	9	UT _(UT100)	100 blows 100% recovery				(3.97)	× · · ×
w.soils.co.uk,	3.50-3.93			7,12/17,23,28,32 for 55mm				-	
299, Web: ww	3.50-3.93 -3.50-3.93	12 13	DSPT B	ioi sanim				- - - -	- x- x- · x - 0 · x · 0 x · . x
:: 01977-552	4.50-4.87	104	SPT ES	8,10/20,30,50 for 70mm 1xT+1xJ+1xV			Cable percussion borehole terminated at 4.87m depth	- - 4.87	xo - xo
Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk.	-4.50 -4.50-4.87	15	DSPT	TXT+TXJ+TXV			Cable percussion borehole terminated at 4.87m depth.		

The		Boring Pr	ogress and	Water O	bservations		Chise	lling / Slow l	Progress	0 1	D 1
tleford:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remarks
ast			Depth	Depth	(mm)	Depth			(1111.111111)	1 Desition algored using (CAT and Canny
Soils Ltd, Branch Office - C	03/10/22	16:30	4.87	3.00	150	Dry	3.50	4.50	01:00	Position cleared using (2. Hand dug inspection pit 3. Borehole drilled using 1 4. 20 litres of water betwe aid drilling. No groundwater encour 6. Borehole backfilled with 7. SPT hammer AR1862-	to 1.20m. 50mm tools and casing. en 1.20m to 4.50 meters to ntered during drilling. bentonite on completion.
Structural	Method Used:	Inspec Cable p	tion pit	Pla Use		ando 250	00	Drilled By:	Robert Foster	Logged RStan By:	Checked By: AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PnVersion: v8_07_1 Log CABLE PERCUSSION LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Ltd, Branch Office - Castleford: The Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/1/2/22 - 18:42 | TC9 |



BOREHOLE LOG

Contract:				Client:	Client:					
EMG Pha	se 2				SEGRO			CI	P20)
Contract Ref:	Start:	30.09.22	Groun	nd Level (m AOD):	National Grid Co-ordinate:	Sheet:				
765514	End:	03.10.22		75.98	E:445775.9 N:324732.4		1	of	1	

	Sam	ples a	and In-si	tu Tests	Water	Backfill	Description of Charts	Depth	Material Graphic
	Depth	No	Туре	Results	Š	Вас	Description of Strata	(Thick ness)	Legend
	- 0.10-0.30 - 0.10 - 0.40-0.70 - 0.50	1 101 2 3	B ES B	1xT+1xJ+1xV			TOPSOIL Stiff dark orangish brown slightly gravelly sandy silty CLAY. Sand is fine to coarse. Gravel is angular to subangular fine of mixed lithologies	0.40	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
TC9	- 0.50 - -0.90 - 1.20	102	ES B	1xT+1xJ+1xV			including sandstone and siltstone. Stiff to very stiff reddish brown gravelly sandy silty CLAY. Sand is fine.	- 0.80 -	× × × ×
2 - 18:42	1.00 - 1.00	5 103	D ES	1xT+1xJ+1xV			Gravel is angular to subangular fie to coarse of mudstone, occasional bands of grey siltstone.	-	× × ×
.co.uk. 11/12/2	- 1.50-1.95 - 1.50-1.95 - 1.50-1.95 	7 8	SPT DSPT B	N=26			(MERCIA MUDSTONE GROUP)	- - - - - - -	× - × - × - × - × - × - × - × - × - × -
mail: ask@soils	- - 2.50-2.95 - -	9	UT _(UT100)	100 blows 67% recovery				(3.99)	x
s.co.uk, E	- 3.00 - - -	10	D					- - -	× × ×
ww.soil	- - 3.50-3.91			5,12/20,25,35,20 for 35mm					× × ×
2299, Web: w	3.50-3.91 =3.50-3.91 - -	12 13	DSPT B					-	× × ×
1977-55	4.50-4.79		SPT	10,15/40,60 for 75mm				4.79	× × ×
otteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-55255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/1/2/22 - 18:42 TC9	4.50-4.79	15	DSPT				Cable percussion borehole terminated at 4.79m depth.		

	Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow l	Progress	Canaral Damarka
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General Remarks
03/10/22	13:00	4.79	3.00	150	Dry	3.50	4.50	01:00	 Position cleared using CAT and Genny. Hand dug inspection pit to 1.20m. Borehole drilled using 150mm tools and casing. 20 litres of water added between 1.20m and 4.50m to aid drilling. No groundwater encountered during drilling. Borehole backfilled with bentonite on completion. SPT hammer AR1862-2022 (<i>E_r</i> = %) used. All dimensions in metres Scale: 1:50
Method Used:		tion pit +			ndo 250	0	Drilled By:	Robert Foster	Logged RStan Checked By: AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PnVersion: v8_07_1 Log CABLE PERCUSSION LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Ltd, Branch Office - Castleford: The Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/1/2/22 - 18:42 | TC9 |



BOREHOLE LOG

Contract:				Client:	Client:				
EMG Pha	se 2				SEGRO			CI	P21
Contract Ref:	Start:	04.10.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	04.10.22		68.05	E:445752.9 N:324495.1		1	of	1

	Samp	oles a	nd In-si	tu Tests	Water	fill & tru- ation	Description of Otroto	Depth	Material Graphic
	Depth	No	Туре	Results	W	Backfill & Instrumentation	Description of Strata	(Thick ness)	Legend
	0.10	1	ES				TOPSOIL	(0.50)	7.77.77. 7.77.77.3
TC9	0.50 0.50 0.50	2 3 4	ES B D				Firm light reddish brown slightly sandy gravelly CLAY. Sand is fine to medium and mudstone derived. Gravel is subangular to rounded fine to coarse of siltstone and mudstone. Occasional gravel size bluish grey silt	- - - - -	
- 18	1.00 1.00 1.00 1.20-1.65	5 6 7 8	B D B U	35 blows			pockets (<50mm). (MERCIA MUDSTONE GROUP)	- - - - -	
.uk. 11/	1.70 - 2.00-2.45	9	D SPT	N=23				- - -	• • • •
sk@soils.co	2.00-2.45	10 11	DSPT B	N-23				- - - -	
Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22	- 2.80 - 3.00-3.45	12 13	D U	120 blows				(4.88)	
eb: www.soils	3.70	14	D				3.60-4.80m: clay becoming stiff.	- - - - -	
7-552299, W	4.00-4.45 4.00-4.40 4.00-4.50	15 16	SPT DSPT B	N=100				- - - -	
55, Fax: 0197	- 4.80 - 5.00-5.38	17	D SPT	13,12/27,30,43 for 75mm			4.80-5.30m: clay becoming very stiff.	- 5.20	
977-55225	5.00-5.38	18	DSPT			******	Cable percussion borehole terminated at 5.38m depth.	5.38	
JJ. Tel: 018	- - - -							- - - -	
e, WF10 1N	- - - -							- - - -	
şţ	- - - -							- - - -	
astleford, W	- - - -							- - - -	
ery Street, C	- : : :							- - - -	
Potteries, Pottery Street, Castleford, We	• • •							- - - -	

- I be		Boring Pro	ogress and	Water O	bservations		Chiselling / Slow Progress			Conoral	Domarko
etord	Date	Time	Borehole	Casing	Diameter	Water	From	То	Duration (hh:mm)	General	Remarks
ast			Depth	Depth	(mm)	Depth				1. Position cleared using (CAT and Genny
	03/10/22		0.50	3.00	150	Dry	4.70	5.00	00:30	2. Hand dug inspection pit	
<u>=</u>	03/10/22	18:00	5.38	5.00	150	Dry				3. Borehole drilled using 1	50mm tools and casing.
<u>و</u>	04/10/22	08:00	5.38	5.00	150	Dry				4. No groundwater encour	ntered during drilling.
anct	04/10/22	11:00	5.38	5.00	150	Dry				5. Borehole installed with	50mm standpipe upon
m m										completion. 6. SPT hammer JB05-202	22 (F = 68 00%) used
S Lt										o. or a mammor oboo 201	12 (L _r 00.0070) 4004.
Sol										All dimensions in metres	Scale: 1:50
tural	Method	Inspec	tion pit	• Pla	nt			Drilled		Logged RStan	Checked
truct	Used:		ercussic			ando 250		_	ill Nevins		By: AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07_1 Log CABLE PERCUSSION LOG - A4P | 785514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford. The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 18:42 | TC9 |



BOREHOLE LOG

Contract:				Client:		Borehole	э:		
EMG Pha	se 2				SEGRO			CF	P22
Contract Ref:	Start: 0	4.10.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End: 0	4.10.22					1	of	1

	Sam	ples a	ınd In-si	itu Tests	Water	Backfill	Description of Charts	Depth	Material Graphic
	Depth	No	Туре	Results	×	Bac	Description of Strata	(Thick ness)	Legend
	0.10	101	ES				TOPSOIL.	(0.50) 0.50	7. 3.1. 3.1. 3.1. 3.1. 3.1.
22 - 18:42 TC9	- 0.50 - 0.50 - 0.50 - 1.00 - 1.00 - 1.20-1.65	3 4 102 5 6 7	D B ES D B U	50 blows			Very stiff reddish brown slightly sandy CLAY with frequent lithorelics of mudstone and light grey siltstone. Locally grading to extremely weak mudstone. (MERCIA MUDSTONE GROUP)		
. 11/12/	- - 1.70	8	D					- - -	
sk@soils.co.uk	2.00-2.45 2.00-2.50 2.00-2.45 2.50	10 9 11	SPT B DSPT D	N=50				- - - - -	
oils.co.uk, Email: a	- - - 3.00-3.45 - -	12	U	150 blows				(4.80)	
177-552299, Web: www.s	4.00-4.42 - 4.00-4.45 - 4.00-4.50 - 4.50	14 15 16	SPT DSPT B D	5,7/10,20,33,37 for 40mm				- - - - - - - - -	
255, Fax: 019	- 5.00-5.30 - 5.00 5.30	17	SPT	10,15/42,58 for 75mm			Coble wave regions have hale to make stad at 5 20m depath	5.30	
Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ, Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk, 11/12/22 - 18:42 TC9	5.00-5.30	17	DSPT				Cable percussion borehole terminated at 5.30m depth.		

2		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	Progress	Canaral Damarka	
5	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General Remarks	
2			Depth	Depth	(mm)	Depth			(1111.111111)	1. Desition elected using CAT and Conny	
Allo Ella, Diamon Cilico	04/10/22	18:00	5.30	3.00	150	Dry	4.50	5.00	00:30	 Position cleared using CAT and Genny. Hand dug inspection pit to 1.20m. Borehole drilled using 150mm tools and casing. No groundwater encountered during drilling. SPT hammer JB05-2022 (<i>E_r</i> = 68.00%) used. 	
Ś										All dimensions in metres Scale: 1:50	
	Method Used:	Cable p	ercussio	Plan Use	1	ando 200	0	Drilled By: W	'ill Nevin:	Logged RStan Checked By:	15

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07_1 Log CABLE PERCUSSION LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford. The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk, | 11/12/22 - 18:42 | TC9 |

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STRUCTURAL SOILS

BOREHOLE LOG

Contract:				Client:	Client:						
EMG Pha	se 2				SEGRO			C	P23		
Contract Ref:	Start:	22.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:					
765514	End:	23.09.22		71.31	E:446025.7 N:324549.2		1	of	1		

	Sam	ples a	ınd In-si	itu Tests	Water	liji.		Depth	Material
	Depth	No	Туре	Results	Wa	Backfill	Description of Strata	(Thick ness)	Graphic Legend
	0.10	1	ES				TOPSOIL.	(0.60)	7. 7.7. 7.7. 7. 7.7. 7.7.
3:42 TC9	- 0.50 - 0.50 - 0.60 - 1.00	2 3 4 5	B D ES B				Very stiff reddish brown slightly sandy CLAY with occasional lithorelics of mudstone. (MERCIA MUDSTONE GROUP)	0.60	
t. 11/12/22 - 18:42 TC9	1.00 - 1.20-1.65 - - - 1.70	6 7 8	D UT D					- - - - -	
ask@soils.co.ul	2.00-2.45 2.00-2.50 2.00-2.45	10 9	SPT B DSPT	N=22		/// /// /// ///	2.00m: With occasional gravel size pocket/lense (<15mm) of greenish grey sandy silt.	(4.00)	
Web: www.soils.co.uk, Email: ask@soils.co.uk.	2.80 - 3.00-3.45	11 12	D UT	140 blows				- - - - -	
Web: www.soi	3.50 - 4.00-4.43	13	D SPT	10,15/16,17,29,38	i			- - - - -	
01977-552299,	4.00-4.43 4.00-4.50 - 4.80-5.00	14 15	DSPT B	for 50mm			Very stiff reddish brown slightly sandy CLAY with frequent lithorelics of mudstone and light grey siltstone. Locally grading to extremely weak	4.60	
-552255, Fax:	- 4.80 - 5.00-5.41 - 5.00-5.41	17	D	15,10/22,21,25,32 for 45mm	₩	///, ///, ///,	mudstone. (MERCIA MUDSTONE GROUP) Cable percussion borehole terminated at 5.41m depth.	_(0.81) _ _ _ 5.41 _	· · · · ·
Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977							Cable percussion borenole terminated at 5.4 rm depth.		

<u> </u>		Boring Pro	ogress and	Water Ob	servations		Chisel	ing / Slow	Progress	Conoral	Domorko
il ciol d	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remarks
= 1	22/09/22 23/09/22 23/09/22	18:00 08:00 15:00	2.00 2.00 5.41	1.50 1.50 1.50	150 150 150 150	Dry Dry 5.37				Position cleared using CAT ar Hand dug inspection pit to 1.2 Borehole drilled using 150mm Groundwater strike at 5.40m. Borehole backfilled with bento SPT hammer JB05-2022 (<i>E</i> , =	0m. diameter tools and casing. Did not rise after 20 minutes. nite upon completion.
5										All dimensions in metres	Scale: 1:50
Oliucius	Method Used:		tion pit -			ando 200	0	Drilled By:	Matthew Heath	Logged RStan By:	Checked By: AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PnVersion: v8_07_1 Log CABLE PERCUSSION LOG - A4P | 785514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk, | 11/12/22 - 18:42 | TC9 |

BOREHOLE LOG

Contract:				Client:		Borehole	e:		
EMG Pha	se 2				SEGRO			CI	P24
Contract Ref:	Start:	26.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	26.09.22		69.09	E:446132.1 N:324501.5		1	of	1

	Samp	oles a	nd In-si	tu Tests	Water	Backfill	D	Depth	Material
	Depth	No	Туре	Results	8	Bac	Description of Strata	(Thick ness)	Graphic Legend
Ī	0.10	1	ES				TOPSOIL (TOPSOIL)	0.30	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
ZZ - 18:4Z IC9	0.50 0.50 0.60 1.00 1.20-1.65	2 3 4 5 6 7	B D ES B D UT	60 blows			Very stiff dark brown slightly sandy CLAY. Sand is fine to medium and mudstone derived. (MERCIA MUDSTONE GROUP) Stiff reddish brown slightly sandy CLAY with frequent fine to coarse gravel size pockets and lenses (<10mm) of greenish grey sandy silt. Sand is fine to coarse and mudstone derived. (MERCIA MUDSTONE GROUP)	(1.30)	
/ZL/LL	1.70	8	D					2.00	
ask@soils.co.uk.	2.00-2.45 2.00 2.00-2.50 2.00-2.45	10 11 9	SPT D B DSPT	N=42			Firm reddish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse and mudstone derived. Gravel is angular to subangular fine to medium of mudstone lithorelics. (MERCIA MUDSTONE GROUP)	(1.10)	
к, Етап.	2.80 3.00-3.45	12 13	D UT	150 blows		///. ///. ///.	Now, stiff residiate brown slightly sough, slightly grouply OLAY with	3.10	
www.soils.co.uk, Email:	3.50 3.50-4.00	14 15	D B				Very stiff reddish brown slightly sandy slightly gravelly CLAY with frequent fine to medium gravel size pockets and lenses(<15mm) of greenish grey sandy silt. Sand is fine to medium and mudstone derived. Gravel is angular fine to medium of mudstone lithorelics. (MERCIA MUDSTONE GROUP)		
-552299, Web.	4.00-4.41 4.00-4.41 4.00-4.50	16 17	SPT DSPT B	5,10/17,25,34,24 for 30mm				- (2.30)	
255, Fax: 01977	4.80	18	D SPT	7,8/16,33,34,17 for 20mm				- - - - - - 5.40	· · · · · · · · · · · · · · · · · · ·
lel: 01977-552255,	5.00-5.40	19	DSPT			,,,,	Cable percussion borehole terminated at 5.40m depth.		•_ •_ • _
	· - ·							- - - -	
re, WF10 INJ.								-	
st rorksnire,	- - -							-	
								-	
Street, Castleford, We	- - -							- - -	
Potteries, Pottery S								-	
otterie								<u> </u>	

느		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow	/ Progress	Caparal	Domarko	
Castleford:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration	General	Remarks	
astle	Date	11110	Depth	Depth	(mm)	Depth	1 10111		(hh:mm)	1 Position algored using	CAT and Conny	٦
Ltd, Branch Office -	26/09/22	16:00	5.40	4.50	150	Dry				Position cleared using (Hand dug inspection pi Borehole drilled using 1 No groundwater encours Borehole backfilled with completion. SPT hammer JB05-202	to 1.20m 50mm tools and casing. ntered. n bentonite upon	
Sc										All dimensions in metres	Scale: 1:50	
Structural Soils	Method Used:	•	tion pit - ercussio	111		ando 200	0	Drilled By:	Mathew Heath	Logged RStan By:	Checked By: AGS	3

GINT_LIBRARY V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07_1 Log CABLE PERCUSSION LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/1/2/22 - 18/42 | TC9 |

BOREHOLE LOG

Contract:				Client:		Borehole):		
EMG Pha	se 2				SEGRO			CI	P25
Contract Ref:	Start:	21.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	22.09.22		67.07	E:446354.7 N:324580.7		1	of	1

	Sam	ples a	nd In-si	itu Tests	Water	Backfill	Deparintion of Strate	Depth	Material Graphic
	Depth	No	Туре	Results	Ň	Bac	Description of Strata	(Thick ness)	Legend
(@soils.co.uk. 11/12/22 - 18:42 TC9	0.00-0.10 0.10 0.10-0.40 0.30 0.50 0.50 0.90-1.00 1.00 1.00 1.00-1.20 1.20-1.65 1.20-1.70 1.90 2.00-2.45	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	ES D B D D ES D B ES D B SPT DSPT B D UT D	N=50 150 blows			TOPSOIL Stiff to very stiff reddish brown slightly sandy slightly gravelly CLAY. Gravel is subangular fine to coarse mudstone. (MERCIA MUDSTONE GROUP)	(2.40)	
ail: as	- -					[///	Voncetiff raddish brown looks light every slightly angle grant and AV	2.80	<u>-00</u>
Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 18:42 TC9	2.80-3.00 -2.90 3.00-3.45 3.00-3.45 3.00-3.50 3.80 -4.00-4.45 -4.50 -5.00-5.39 -5.00-5.40 5.00-5.40 -6.00	17 18 19 20 21 22 23 24 25	B D SPT DSPT B D SPT B SPT SPT	N=56 8,17/20,26,37,17 for 15mm			Very stiff reddish brown, loally light grey, slightly sandy gravelly CLAY. Gravel is subangular fine to coarse of mudstone and light grey siltstone. (MERCIA MUDSTONE GROUP) Very stiff dark orangish brown slightly sandy CLAY. Occasional very thin beds / lenses of light grey siltstone. (MERCIA MUDSTONE GROUP)	(3.88)	
Potteries, Pottery Street, Castleford, West Yorkshire, W	6.50-6.88	27	DSPT	10,15/23,31,40,6 for 5mm			Cable percussion borehole terminated at 6.88m depth.	6.88	

The		Boring Pro	ogress and	Water Ol	servations		Chise	lling / Slov	v Progress	Conoral	Domarko
Castleford:	Date	Time	Borehole		Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remarks
astl	2 4.10		Depth	Depth	(mm)	Depth		'-	(1111.111111)	4. Danitian alasmad vaina	CAT and Campu
Ltd, Branch Office -	21/09/22 22/09/22 22/09/22	18:00 08:00 13:00	3.00 3.00 6.88	3.00 3.00 6.00	150 150 150	Dry Dry Dry				 Position cleared using (Hand dug inspection pi Borehole drilled using 1 casing. No groundwater encour Borehole backfilled with completion. SPT hammer JB05-202 	to 1.20m. 50mm diameter tools and ntered during drilling. bentonite upon
ural Soils										All dimensions in metres	Scale: 1:50
Structura	Method Used:		tion pit - ercussio			ando 200	0	Drilled By:	Matthew Heath	Logged RStan By:	Checked By: AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07_1 Log CABLE PERCUSSION LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford. The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk, | 11/12/22 - 18:42 | TC9 |

BOREHOLE LOG

Contract:				Client:		Borehole	e :		
EMG Pha	se 2				SEGRO			CI	P26
Contract Ref:	Start:	16.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	21.09.22		77.19	E:446017.7 N:324866.7		1	of	1

	, 05	• • •	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □			11.13 E.TTOUTI.1 N.32T000.1		OI I
Sam	ples a	and In-sit	tu Tests	Water	Backfill	Description of Strata	Depth (Thick	Material Graphic
Depth	No	Туре	Results	3	xxxxxx	·	ness)	Legend
0.10 0.10 0.10-0.40 0.30 0.30 0.50 0.50 0.50	1 2 3 4 5 6 7 8	ES D B ES D S D B				TOPSOIL Stiff dark brown slightly sandy slightly gravelly silty CLAY. Sand is fine to coarse. Gravel is subrounded to rounded fine to coarse predominantly fine and medium of quartzite and mudstone.	0.10	
1.00 1.00 1.00 1.20-1.65 1.20-1.65 1.20-1.65 1.20-1.70 1.80 2.00-2.45	9 10 11 12 13 14	ES D B SPT DSPT B D UT _(UT100)	N=10 30 blows 100% recovery			Stiff dark orangish brown slightly sandy slightly gravelly silty CLAY. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of flint, quartzite sandstone and siltstone. Occasional patches (up to 4x4mm) and fragments (3x3mm) of black organic carbonated plant remain.	1.50	**************************************
2.60	16 17	D B					3.10	×
3.00-3.45 3.00-3.45 3.00-3.50	18 19	SPT DSPT B	N=10			Stiff dark reddish brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular fine to coarse of light grey siltstone. (MERCIA MUDSTONE GROUP)	(0.90)	× × × × × × × × × × × × × × × × × × ×
3.80 - 4.00-4.38	20	D SPT	5,8/10,15,50			Very stiff dark orangish brown, mottled reddish brown, slightly sandy	4.00	
4.00-4.40 - 4.00-4.50 - 4.00	21 22 23	DSPT B D	for 75mm			CLAY. Occasional very thin lens of light grey siltstone. (MERCIA MUDSTONE GROUP)		
5.00-5.35		SPT	5,10/20,30,35 for 45mm				- (2.76)	
- 5.00-5.40 - 5.00-5.50	24 25	DSPT B					(2.70)	
6.00	26	D						
6.50-6.76		SPT	8,17/33,47,20 for 10mm				6.76	
6.50-6.76	27	DSPT				Cable percussion borehole terminated at 6.76m depth.	- - - - - - - - - - - - - - - - - - -	

Method Used:		ection percu			Dand	lo 200		Drilled By: \	Vill Nevin	All dimensions in metres Scale: Logged RStan Check By: By:	1:50 ed	
16/09/22 21/09/22 21/09/22	16:00 08:00 11:00	5.0	00 3.00 00 3.00	150 150 150	2	Dry 4.60 Dry	4.50	5.00	00:30	Position cleared using CAT and 2. Hand dug inspection pit to 1.20n 3. Borehole drilled using 150mm to 4. Groundwater strike at 4.60m. Borehole backfilled with bentonit completion. SPT hammer JB05-2022 (<i>E</i> _r = 6	n. ols and o e upon (8.00%)	useo
Date	Time	Bore	hole Casing	Boreho Diamet (mm)	ole V	Vater Depth	From	То	Duration (hh:mm)	General Rema		
	Boring	Progress	s and Water Ob				Chisell	ing / Slow	Progress	Conoral Dame	arko	
6.50-6.76	27	SPT	8,17/33,47,20 for 10mm			Cable p	percussion	n borehole	e terminated	at 6.76m depth.	6.76	• •
- 6.00 6.00	26	D									- - - - - -	
5.00-5.35 5.00-5.40 5.00-5.50	24 25	DSPT B	5,10/20,30,35 for 45mm								(2.76)	
- 4.00-4.40 - 4.00-4.50 - 4.00	21 22 23	DSPT B D	for 75mm			CLÁY.	Occasion CIA MUDS	al very th	n lens of ligh	nt grey siltstone.	- - - - - - -	
- - - 3.80 - 4.00-4.38	20	D SPT	5,8/10,15,50			•	tiff dark o		,	ed reddish brown, slightly sandy	4.00	
- 3.00-3.45 - 3.00-3.45 - 3.00-3.50	18 19	SPT DSPT B	N=10			coarse.	Gravel is	subangu	lar fine to co	ly gravelly CLAY. Sand is fine to arse of light grey siltstone.	3.10	
- 2.60 - 2.60-3.00	16	D B	100% recovery									×-
- 1.00 - 1.20-1.65 - 1.20-1.65 - 1.20-1.70 - 1.80 - 2.00-2.45	11 12 13 14	B SPT DSPT B D	N=10 30 blows			Sand is flint, q	s fine to co uartzite s i) and fra	oarse. Graandstone	avel is angul and siltsto	andy slightly gravelly silty CLAY. ar to subrounded fine to coarse of one. Occasional patches (up to black organic carbonated plant	(1.60)	
- 0.50 - 0.50 - 0.50 - 1.00 - 1.00	6 7 8 9 10	D ES D B ES									1.50	



BOREHOLE LOG

Contract:				Client:		Borehole	e:		
EMG Pha	se 2				SEGRO			CI	P27
Contract Ref:	Start:	15.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	15.09.22		76.99	E:446017.4 N:324865.5		1	of	1

	Sam	ples a	nd In-si	tu Tests	Water	Backfill &	tation	Description of Strata	Depth (Thick	Material Graphic
	Depth	No	Туре	Results	M	Bac	men	·	ness)	Legend
	0.10	1	ES			13000	2008 2008 2008 2008	TOPSOIL	0.30	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
100	0.50 0.50 0.50	3 4 5	D ES D B					Firm dark brown mottled grey and locally dark blue and grey slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular and subrounded fine to coarse flint, sandstone, siltstone and quartz. Moderate hydrocarbon odour observed. (MADE GROUND - REWORKED)	- - - - -	
ask@soils.co.uk. 11/12/22 - 18:43 TC9	1.00 1.00 1.00-1.65 1.20-1.65 1.20-1.70 1.20-1.65 1.80	6 7 8 10 9 11	ES D B SPT B DSPT D	N=8				(IIII DE CITOCITE TIEN CITALES)	(2.70)	
l: ask@soils.co.	2.00 2.00 2.00-2.45 2.00-2.45 2.00-2.50	12 13 14 15	ES D SPT DSPT B	N=8				2.15-2.25m: becoming very soft with strong hydrocarbon odour and iridescent sheen to extracted materials 2.50-3.00m: occasional grey organic roots and rootlet remnants.	- - - - - -	
.soils.co.uk, Emai	2.80 3.00-3.45 3.00-3.45 3.00 3.00	16 17 18 19	D SPT DSPT ES D	N=58				Very stiff reddish brown slightly sandy slightly gravelly CLAY with frequent fine and medium size pockets of green grey sandy silt. Sand is fine and medium and mudstone derived. Gravel is angular and subangular fine to coarse of mudstone lithorelics.	3.00	
MMM	3.80	20	B D					(MERČIA MUDSTONE GROUP)	(1.95)	
Web	4.00-4.35		SPT	10,15/15,20,40					[(1.00)	
1977-552299,	4.00-4.40 4.00 4.00 4.60-4.95	22 23 24	DSPT ES D SPT	for 45mm 15,10/20,30,25					4.95	
Fax: 0	- 4.60-4.95	25	DSPT	for 45mm				Cable percussion borehole terminated at 4.95m depth.	- 4.95 - -	-00
Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email:			56. 1							

The		Boring Pro	ogress and	Water Ol	servations		Chisel	ling / Slow F	Progress	Conoral	Domarko	
Castleford:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration	General l	Remarks	
astle	Date	TITIE	Depth	Depth	(mm)	Depth	1 10111	10	(hh:mm)	1 Desition algored using (AT and Canny	
ural Soils Ltd, Branch Office - C	15/09/22	18:00	4.95	3.00	150	Dry	4.40	4.60	00:30	Position cleared using 0 Hand dug inspection pit Borehole drilled using 1 No groundwater encour Borehole installed with scompletion. SPT hammer JB05-202 All dimensions in metres	to 1.20m. 50mm tools and itered during dril 50mm standpipe	casing. ling. on used.
Structura	Method Used:		tion pit - ercussic			ando 200	0	Drilled By: W	ill Nevins	Logged RStan By:	Checked By:	AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07_1 Log CABLE PERCUSSION LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford. The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk, | 11/12/22 - 18:43 | TC9 |

BOREHOLE LOG

Contract:				Client:	Client:				
EMG Pha	se 2						CI	P28	
Contract Ref:	Start:	14.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	15.09.22		77.04	E:446017.1 N:324863.4		1	of	1

Ļ	-			Eria.		<u> </u>			<u> </u>
	Sam	oles a	ınd In-si	tu Tests	ē	Backfill & Instrumentation		Depth	Material
ŀ			_	- I	Water	ckfi	Description of Strata	(Thick	Graphic
	Depth	No	Type	Results	>	Ba r me	·	ness)	Legend
F	0.00-0.50	3	В				TODOOU	(0 E0)	7/1/N. 7/1/V. 7
ļ								(0.50)	17. 31/ 31/
ļ						28 6		0.50	
Ŀ	0.50	1	ES				Stiff reddish brown slightly sandy silty CLAY. Sand is fine to coarse.	(0.50)	<u> </u>
3	0.50 0.50-1.00	2	D B				(MERCIA MUDSTONE ĠROUP)	F	x - x
18:43 C9	1.00	4	ES			*.*H.*	Stiff reddish brown slightly gravelly slightly sandy silty CLAY. Sand is	1.00	
4:8	1.00	5	D				fine to coarse. Gravel is subangular and subrounded fine to coarse of	F	
; F	1.20-1.65	_	SPT	N=11			flint and mudstone. Occasional pockets (<10mmx5mm) of greenish grey	F	
77	1.20-1.65 1.20-1.70	7 8	DSPT B				siltstone.	(1.50)	<u></u>
= =							(MERCIA MUDSTONE GROUP)	(1.50)	· • • • • • • • • • • • • • • • • • • •
- -	1.80	9	D					_	· · · · · · o
ask@soils.co.uk. 11/12/2	2.00-2.45	10U	T-NR _{(UT1}	00) 55 blows 0% recovery			4	‡	
SOIIS				0 /0 recovery		心用:		2.50	
<u> </u>	2.50-2.95		SPT	N=13		心用:	Stiff to very stiff reddish brown slightly sandy silty CLAY. Sand is fine to	2.50	* - * *
	2.50-2.95	11	DSPT			心出	coarse. Occasional pockets of greenish grey siltstone.	<u> </u>	
Email:	2.50-2.90	12	В				(MERCIA MUDSTÓNE GROŬP)	-	<u>xx</u>
	-2.90 -3.10-3.45	13	D UT _(UT100)	150 blows				F	<u></u>
8 -	3.10-3.43	14	UT100	129% recovery				-	
SIIS				,				-	××
8. 8.	3.60	15	D					(2.50)	
}	3.60-4.00	16	В					-	×
Web: www.soils.co.uk,	4.00-4.42		SPT	6,12/13,17,33,35				-	××
, ,				for 40mm				_	
22	4.00-4.42	17	DSPT					_	× × ×
? !	4.60-5.00		SPT	13,12/20,20,30,30				_	xx
6 5				for 20mm		****		- 00	×
ă E	-4.60-5.00	18	DSPT			*****	Cable percussion borehole terminated at 5.00m depth.	5.00	x - x
ő							Cable percussion borehole terminated at 0.00m depth.	_	
7-552255,								F	
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6								-	
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Street, Castleford, West								<u> </u>	
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otteries, Pottery								E	
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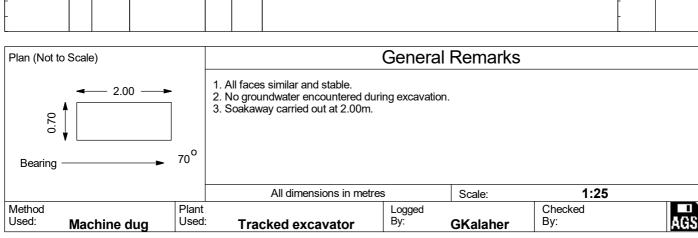
ne L		Boring Pr	ogress and	Water O	oservations		Chisell	ing / Slow F	Progress	Conoral	Domarka			
eTord:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (blumm)	General	Remarks			
astl	Date	11110	Depth	Depth	(mm)	Depth			(hh:mm)	1 Desition algored using (CAT and Canny			
Is Ltd, Brancn Office - Că	14/09/22 15/09/22 15/09/22	08:00	3.60 3.60 5.00	3.00 3.00 3.00	150 150 150	Dry Dry Dry	4.40	4.60	00:30	1. Position cleared using CAT and Genny. 2. Hand dug inspection pit to 1.20m. 3. Borehole drilled using 150mm tools and cas 4. No groundwater encountered during drilling 5. Borehole installed with 150mm standpipe u completion. 6. SPT hammer JB05-2022 (<i>E_r</i> = 68.00%) us				
Sol										All dimensions in metres	Scale: 1:50			
iructura	Method Used:		tion pit -				Drilled By: Will Nevins			Logged RStan Checked By:				

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07_1 Log CABLE PERCUSSION LOG - A4P | 785514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford. The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 18:43 | TC9 |



Contract:				Client:	Trial Pit:				
EMG Pha	se 2						TI	P01	
Contract Ref:	Start:	27.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	27.09.22					1	of	2

	Samp	oles a	nd In-sit	tu Tests	Water	Backfill	Description of Otroto	Depth	Material Graphic
	Depth	No	Туре	Results	Wa	Вас	Description of Strata	(Thick ness)	Legend
TC9	0.10 0.10 0.10 0.30 0.30 0.30	1 2 3 4 5	ES D ES D LB				TOPSOIL Very stiff dark orangish reddish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of quartzite.	0.20	
otteries, Pottery Street, Častleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/1/2/22 - 18:49 TC9	- 0.30-0.40 - 0.60 - 0.60 - 0.60-0.70 - 0.60	5 6 7 8	ES D LB >	c _u =>140			Very stiff dark reddish brown slightly sandy CLAY with frequent beds (<40mm) of extremely weak and very weak light greenish grey siltstone. (MERCIA MUDSTONE GROUP) 1.90-2.00m: Thin bed (<100mm) of very weak light grey siltstone. Trial pit terminated at 2.00m depth.	2.00	

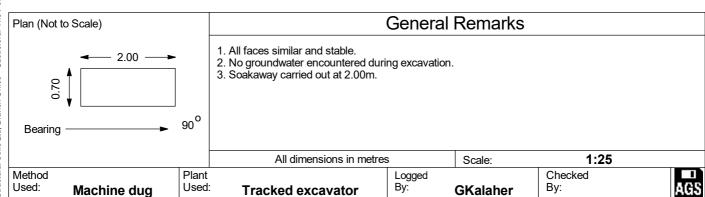




TRIAL PIT LOG

Contract:				Client:			Trial Pit:			
EMG Pha	se 2						TF	P02		
Contract Ref:	Start:	27.09.22	Groun	nd Level (m AOD):	National Grid Co-ordinate:		Sheet:			
765514	End:	27.09.22						1	of	3

	Samp	oles a	nd In-si	tu Tests	iter	kfill	Description of Charts	Depth	Material
	Depth	No	Туре	Results	Wa	Bac	Description of Strata	ness)	Legend
otteries, Pottery Street, Častleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 18:49 TC9					Water	Backfill	TOPSOIL Very stiff dark orangish brown slightly sandy slightly gravelly clayey SILT. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of quartzite and flint. Very stiff dark reddish brown slightly sandy CLAY with frequent lithorelics (20x20mm) of mudstone with occasional very thin beds (<30mm) of very weak light greenish grey siltstone. (MERCIA MUDSTONE GROUP) Trial pit terminated at 2.00m depth.	(Thick ness)	Graphic
otteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-5	- - - - - - - - - - -							- - - - - - - - - - -	



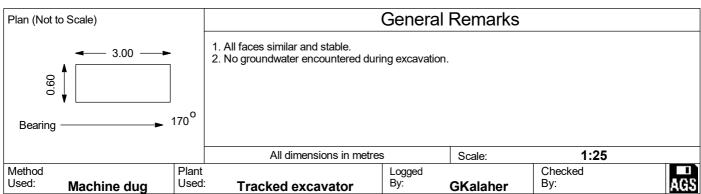
GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PnVersion: v8_07 | Log TRIAL PIT LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10_1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk, | 11/12/22 - 18:49 | TC9 |



TRIAL PIT LOG

Contract:					Client:			Tri	al Pit	:		
EMG Ph				SEGRO						TF	2 03	
Contract Ref:	Start:	03.	10.22	Groun	d Level (m AOI	D):	National Grid Co-ordinate:	Sh	eet:			
765514	End:	03.	10.22							1	of	5
Samples and In-situ Tes	'S		=							Denth	Ma	aterial

	Samp	oles a	and In-si	tu Tests	Water	Backfill	Description of Strate	Depth	Material Graphic
	Depth	No	Туре	Results	M	Вас	Description of Strata	(Thick ness)	Legend
	- - 0.15 0.15	1 2	ES D				TOPSOIL.	(0.30)	\(\frac{1}{2}\)\(\fra
22 - 18:49 TC9	- 0.40 - 0.40 - 0.40-0.50	3 4 5	ES D B				Light orangish brown very gravelly SAND. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of flint and quartz.	(0.50)	0 6 0 0
@soils.co.uk. 11/12/;	- - 1.00 - 1.00 - 1.00-1.10	6 7 8	ES D B				Stiff dark orangish reddish brown slightly sandy slightly gravelly clayey SILT. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of flint and quartz. (MERCIA MUDSTONE GROUP)	(0.50)	× × × × × × × × × × × × × × × × × × ×
w.soils.co.uk, Email: ask(1.50 1.50-1.60 - 1.50 - 1.60	10 11 9	D B ES V	c _u =52/54			Stiff dark reddish brown slightly sandy slightly gravelly CLAY with frequent lenses of reddish brown gravelly fine to coarse sand with occasional to frequent pockets (<50x50mm) of green silt. (MERCIA MUDSTONE GROUP)		
c: 01977-552299, Web: ww	- - - - -						2.00m: Sand lenses absent. Occasional pockets (<100x50mm) of reddish brown sand.	- - - -(2.20)	
Yorkshire, WF10 1NJ. 1el: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 18:49 TC9	3.00	12	D	0.74			3.00m: Firm, low cobble content and occasional boulders. Cobbles (<200x150x100mm) subangular siltstone. Boulders (<450x350x100mm) subangular siltstone.	- - - -	
t Yorkshire, WF	3.20 - 3.40-3.50	13	В	c _u =24			Trial pit terminated at 3.50m depth.	3.50	- · · · · · · · · · · · · · · · · · · ·
Potteries, Pottery Street, Castleford, West	- - - -							- - - - -	
otteries, Po	-							-	

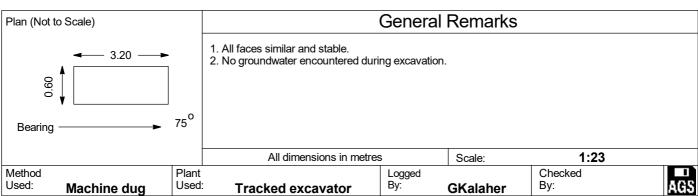


GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PnVersion: v8_07 | Log TRIAL PIT LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10_1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk, | 11/12/22 - 18:49 | TC9 |



Contract:				Client:		Trial Pit			
EMG Pha	se 2				SEGRO			TI	P05
Contract Ref:	Start:	03.10.22	Groun	nd Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	03.10.22					1	of	4

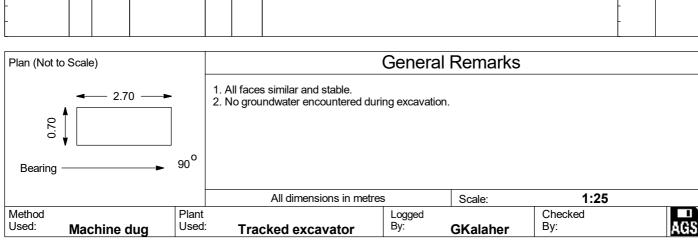
	Samples and In-situ Tests Depth No Type Results					Backfill	Description of Otroto	Depth	Material
	Depth	No	Туре	Results	Water	Bac	Description of Strata	(Thick ness)	Graphic Legend
18:50 TC9	- 0.20 - 0.20 - 0.50 - 0.50	1 2 3 4	D ES D S				TOPSOIL. Very stiff dark yellowish brown slightly sandy slightly gravelly clayey SILT with occasional lenses (100x30mm) and pockets (<30x30mm) of reddish brown fine to coarse sand. Sand is fine to coarse. Gravel is	-(0.40)	\(\frac{1}{2}\frac{1}{
ask@soils.co.uk. 11/12/22 - ·	0.50 - 0.50-0.60 - 0.80 	5	B V	c _u =>140			subangular to rounded fine to coarse of quartz and flint.	(0.90)	* ox * x x x x x x x x x x x x x x x x x
Web: www.soils.co.uk, Email:	- - 1.50 - 1.50 _ 1.50-1.60	6 7 8	ES D B				Very stiff dark brown mottled light grey slightly sandy sightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of quartz, siltstone, mudstone, sandstone and chalk. With occasional pockets (<30x30mm) of orange and yellow silt/sand.	-	
1977-552255, Fax: 01977-552299,	2.00 		V	c _u =120				(1.90)	
ogteines, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. 1el: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk, 11/12/22 - 18:50 1C9	2.80 -3.00-3.10 -3.00 -3.00	10 9	V B D	c _u =110			Trial pit terminated at 3.20m depth.	3.20	
otteries, Potti	- -							-	





Contract:				Client:	Trial Pit:				
EMG Pha	se 2				SEGRO			TF	P06
Contract Ref:	Start:	03.10.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	03.10.22					1	of	4

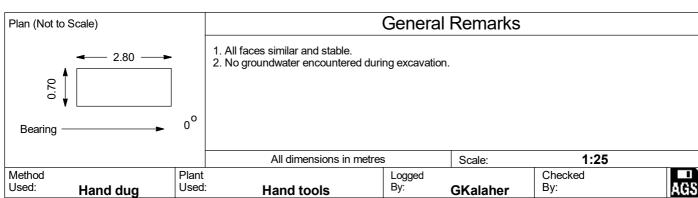
	Sam	Samples and In-situ Tests Depth No Type Res			ter	kfill	Description of Otroto	Depth	Material
	Depth	No	Туре	Results	Water	Backfill	Description of Strata	(Thick ness)	Graphic Legend
	- - 0.15 _ 0.15	1 2	ES D				TOPSOIL	(0.35) - 0.35	70.70.7 17.71.71.71.
18:50 TC9	0.40 - 0.40 - 0.40-0.50	3 4 5	ES D B				Dark orangish brown gravelly fine to coarse SAND. Gravel is subangular to rounded fine to coarse of quartz, flint and mudstone.	- (0.30) - 0.65	0. o
ail: ask@soils.co.uk. 11/12/22 - ·	0.80 - 0.80 - 0.80-0.90 - 0.80	6 7 8	ES D B V	c _u =100			Stiff dark orangish reddish brown slightly sandy slightly gravelly CLAY with occasional local frequent pockets (<40mm) of silt. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of quartz, sandstone, siltstone, flint and mudstone.	- - - _(0.85) -	
www.soils.co.uk, Ema	1.60 1.60-1.70 - 1.60	10 11 9	D B ES				Dark orangish brown gravelly fine to coarse SAND with medium cobble content and occasional thin beds (<20mm) of stiff orangish brown slightly sandy silty clay. Gravel is angular to rounded fine to coarse of siltstone, quartz and flint.	(0.50)	
otteries, Pottery Street, Častleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 18:50 TC9	- 2.10 - 2.10 - 2.10-2.20 	12 13 14	ES D B				Dark yellowish brown sandy GRAVEL with medium cobble and low boulder content. Sand is fine to coarse. Gravel is angular to rounded fine to coarse of siltstone, quartz, mudstone, sandstone and flint. Cobbles and boulders (<450mm) are subangular to subrounded of siltstone. Below 3.40m: Medium boulder content (<600x400x200m)	(1.70)	30 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
tteries, Pottery Street, Castleford, West \	-						Trial pit terminated at 3.70m depth.	3.70	





Contract:				Client:	Trial Pit:				
EMG Pha	se 2						TI	P08	
Contract Ref:	Start:	04.10.22	Groun	nd Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	04.10.22		84.97	E:445808.1 N:325346.7		1	of	4

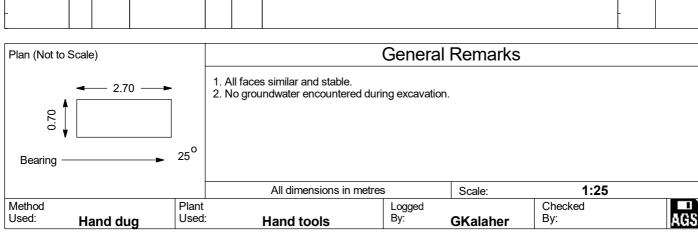
	Samp	les a	nd In-sit	u Tests	Water	Backfill		December	of Ctrata		Depth	Material Graphic
	Depth	No	Туре	Results	Wa	Bac		Description	oi Siraia		(Thick ness)	Legend
18:50 TC9	0.20 - 0.20 - 0.20 - 0.50	1 2 3 4	ES D ES D S				TOPSOIL: Firm dark br with low cobble content subrounded fine to coars Cobbles (<215x100x65r MADE GROUND: Redd low cobble content. Grav tile, quartzite and mudst	Sand is fin- se of quartzitenm) are angul lish brown gra vel is angular one. Cobbles	e to coarse. Grave, flint, brick, glass a ar of full and half be velly silty fine to co to rounded fine to (<215x100x65mm	el is angular to and ceramic tile. rick. Dase SAND with coarse of brick, a) are angular of	0.40	
A4P 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01. Yorkshire, WF10_1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk, 11/12/22 - 18:50 TC9	- 0.50-0.60 	5 6 7 8	LB ES D LB				full and half brick, with o	ccasional con	crete blocks (<400:	x150x120mm).	-(1.80)	
. 01. 52299, Web	2.00	9	ES				below 2.00m: freque fragments of rope. POSSIBLE MADE GRO				2.20	
4IRPORT.GPJ - v10 2255, Fax: 01977-5	- 2.40 - 2.40 - 2.40-2.50	10 11 12	ES D LB				dark grey, slightly sand coarse. Gravel is suband and flint.	y slightly grav	velly clayey SILT.	Sand is fine to	- (0.60)	
ST_MIDLAND. J. Tel: 01977-5	- 2.90-3.00 -2.90	13 14	LB D				Stiff dark reddish brown fine to coarse. (MERCIA MUDSTONE	_	grey slightly sandy	CLAY. Sand is	2.80 -(0.40)	<u> </u>
14 EA	-						Trial pit terminated at 3.2	20m depth.			3.20	
07 Log TRIAL PIT LOG Street, Castleford, West	-										-	
7 001 F The Pott	Plan (Not to \$	Scale	e)					General	Remarks			
GINT_LIBRARY_V10_01GLB_LibVersion: v8_07_001 PrjVersion: v8_ Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery		←	2.80) 			s similar and stable. Indwater encountered durin					
Y V10 01.GLB L Ltd, Branch Offic	02:0			0	0							
BRAR' al Soils							All dimensions in metres	3	Scale:	1:25		
GINT_LI Structura	Method Used:	На	and du	g Pla Us			Hand tools	Logged By:	GKalaher	Checked By:		AGS





Contract:				Client:	Client:				
EMG Pha	se 2						T	P09	
Contract Ref:	Start:	04.10.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	04.10.22		87.60	E:445878.0 N:325225.7		1	of	3

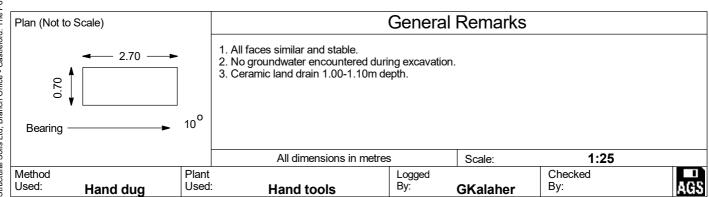
	Sam	oles a	ınd In-si	tu Tests	ter	kfill	D	Depth	Material
	Depth	No	Туре	Results	Water	Backfill	Description of Strata	(Thick ness)	Graphic Legend
	- 0.20 - 0.20	1 2	ES D				TOPSOIL	_ _(0.35) - 0.35	1/2 · 2/4/2 · 3/4/2 ·
o.uk. 11/12/22 - 18:51 TC9	0.60 0.60 0.60-0.70 0.60	3 4 5	ES D LB V	c _u =110			Stiff to very stiff dark greyish brown slightly sandy slightly gravelly silty CLAY. Sand of fine to coarse. Gravel is angular to rounded fine to coarse of flint and quartzite.	- - (0.75) - - 1.10	**************************************
vils.co.uk, Email: ask@soils.o	- - 1.30 - 1.30 - 1.30-1.40 -	6 7 8	ES D LB				Firm to stiff dark reddish brown mottled greenish grey slightly sandy gravelly silty CLAY. With abundant pockets (<100x30mm) of yellow orange and red silt with occasional lenses (<50mm) of reddish brown fine to coarse sand.		
Tel: 01977-552255, Fax: 01977-552299, Web: www.so	- - - - - - - -						below 1.80m: firm, locally soft and firm. below 2.70m: with medium cobble and boulder content. Cobbles (<200x150x100mm) are subangular and subrounded of siltstone. Boulders (<350x250x150mm) are subangular of siltstone.	- - - -(2.60) - -	
otteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/1/2/22 - 18:51 TC9	- 3.30 3.30-3.40 - - - - -	10 9	D LB				Trial pit terminated at 3.70m depth.	3.70	
tterie									





Contract:				Client:		Trial Pit:				
EMG Pha	se 2				SEGRO			T	P1(0
Contract Ref:	Start:	04.10.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:				
765514	End:	04.10.22		77.53	E:445846.9 N:325068.8		1	of	4	

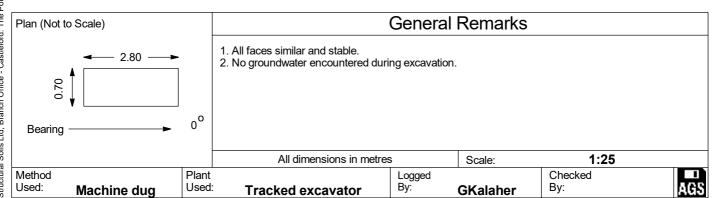
	Sam	Samples and In-situ Tests Depth No Type Resu				Backfill	Description of Strata	Depth (Thick	Material Graphic
	Depth	No	Туре	Results	Water	Вас	<u> </u>	ness)	Legend
	- 0.20 - 0.20	1 2	ES D				TOPSOIL	- (0.40) - 0.40	\(\frac{1}{2}\)\(\frac{1}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(1
2 - 18:51 TC9	- 0.50 0.50 0.50-0.60	3 4 5	ES D LB				Stiff dark yellowish orangish brown slightly sandy gravelly CLAY. With frequent pockets (<40x40mm) of reddish brown fine to coarse sand. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of quartzite, mudstone and flint.	(0.30)	
oils.co.uk. 11/12/2	0.80 - 0.80 - 0.80-0.90	6 7 8	ES D LB				Very stiff dark orangish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of quartzite, flint and chalk.	_(0.55)	
www.soils.co.uk, Email: ask@s	- 1.40 1.40-1.50 - 1.40	10 11 9	D LB ES				Very stiff friable light yellowish brown mottled grey slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of chalk and siltstone with occasional pockets (20x10mm) of yellow and orange silt.	(0.75)	
255, Fax: 01977-552299, Web:	- 2.10 - 2.10 - 2.10-2.20	12 13 14	ES D LB				Stiff dark brown mottled grey slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular fine to coarse of siltstone, flint, chalk and mudstone, with occasional pockets (<20x20mm) of orange and yellow silt. below 2.50m: stiff to very stiff.	2.00	
shire, WF10 1NJ. Tel: 01977-552	3.10	15	D				Trial pit terminated at 3.20m depth.	3.20	
otteries, Pottery Street, Častleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/1/2/22 - 18:51 TC9	- - - - - -							- - - - -	
tteries									





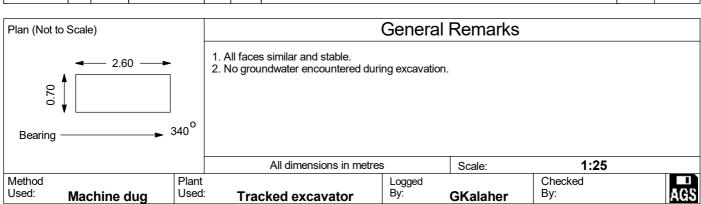
Contract:				Client:	Client:					
EMG Pha	se 2				SEGRO			Т	P11	
Contract Ref:	Start:	04.10.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:				
765514	End:	04.10.22		77.02	E:445965.8 N:324988.4		1	of	4	

	Samp	oles a	nd In-si	tu Tests	Water	Backfill	Description of Strata	Depth (Thick	Material Graphic
	Depth	No	Туре	Results	×	Ba		ness)	Legend
1 TC9	- - 0.20 - 0.20 -	1 2	ES D				TOPSOIL Compact dark orangish brown slightly gravelly sandy SILT. Sand is fine to coarse. Gravel is angular to rounded fine to coarse of quartzite.	- (0.40) - (0.40	\(\frac{1}{2} \
ɔ.uk. 11/12/22 - 18:5	0.60 - 0.60 - 0.60-0.70	3 4 5	ES D B				Stiff dark orangish brown and greyish brown slightly sandy slightly	1.00	**************************************
.co.uk, Email: ask@soıls.c	1.20 1.20 1.20 - 1.20-1.30	6 7 8	ES D B				gravelly clayey SILT. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of flint, quartzite and chalk.	(0.70)	- *
Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 18:51 TC9	- 1.80 - 1.80-1.90 _1.80 - 1.80 	10 11 9	D B ES				Stiff dark orangish brown mottled grey slightly sandy slightly gravelly CLAY. With frequent lenses (<50mm) of reddish brown fine to coarse sand with frequent pockets (<50x30mm) of yellow and orange silt. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of quartzite, siltstone, mudstone, chalk and flint.	(1.50)	
10 1NJ. Iel: 019	- - -						Below 2.90m: with frequent lenses of reddish brown and yellowish orange firm silt (<100mm).	3.20	
Yorksnire, WF	3.30 - 3.30 - 3.30	12 13 14	ES D B				Dark orangish brown gravelly clayey SAND with occasional very thin beds (<30mm) of firm slightly sandy silty clay. Trial pit terminated at 3.50m depth.	(0.30)	
otteries, Pottery Street, Castleford, West	-							- - - - -	



Contract:				Client:		Trial Pit:				_
EMG Pha	se 2				SEGRO			TI	P1	2
Contract Ref:	Start:	04.10.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:				
765514	End:	04.10.22		73.79	E:445742.7 N:325045.7		1	of	4	

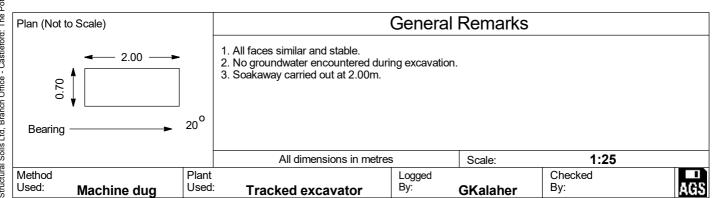
	Sam	ples a	nd In-si	tu Tests	Water	Backfill	Description of Strate	Depth	Material Graphic
	Depth	No	Туре	Results	×	Вас	Description of Strata	(Thick ness)	Legend
I/12/22 - 18:51 IC9	0.20 - 0.20 - 0.50 - 0.50 - 0.50 - 0.50-0.60	1 2 3 4 5	ES D B				TOPSOIL Stiff dark yellowish brown sandy slightly gravelly SILT. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of quartz and flint. Below 0.60m: very stiff clayey SILT	0.40	
o.uk, Email: ask@soils.co.uk. 11	1.10 1.10 1.10 1.20-1.30 1.20	6 7 8	ES D B V	c _u =>140			Very stiff dark yellowish reddish brown mottled light grey slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of flint, chalk and quartz. 1.45m: thin bands (<50mm) of reddish brown gravelly fine to coarse sand.	1.00	*** *** *** * * * * * * * * * * * * * *
otteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. 1el: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk, 11/12/22 - 18:51 1′9	2.00 - 2.00 - 2.00 - 2.00 - 2.00	10 11 9	D B ES V	c _u =120			Stiff dark greyish brown mottled bluish grey slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of flint, chalk and quartz.	1.80	
ies, Pouery Street, Castleford, West Yorkshife	3.50	12	D				Trial pit terminated at 3.70m depth.	3.70	





Contract:				Client:	Client:				
EMG Pha	se 2						TI	P15	
Contract Ref:	Start:	29.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	29.09.22		69.53	E:445583.3 N:325042.1		1	of	2

	Sam	ples a	nd In-sit	tu Tests	ter	Kfill		Depth	Material
•	Depth	No	Туре	Results	Water	Backfill	Description of Strata	(Thick ness)	Graphic Legend
1691	- - 0.30 - 0.30	1 2	ES D				TOPSOIL	(0.50)	
®soils.co.uk. 11/12/22 - 18:52	- 0.60 - 0.60 - 0.60-0.70 -	3 4 5	ES D B				Firm dark yellowish orangish brown slightly sandy gravelly clayey SILT. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of flint and quartzite with occasional lenses (<50mm) of reddish brown fine to coarse sand.	- - - (0.80) - -	**************************************
eries, Pottery Street, Častleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/1/2/22 - 18:52 TC9	- 1.50 - 1.50 - 1.50 - 1.50-1.60 	6 7 8	ES D B				Firm to stiff dark brown mottled light grey slightly sandy gravelly CLAY with high cobble content. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of quartzite, flint and siltstone. Cobbles (<200x150x110mm) are subangular of siltstone. Trial pit terminated at 2.00m depth.	1.30	

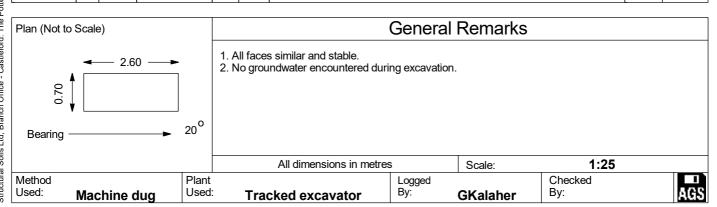




TRIAL PIT LOG

Contract:				Client:		Trial Pit:			
EMG Pha	se 2				SEGRO			TF	P16
Contract Ref:	Start:	29.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	29.09.22		72.11	E:445645.8 N:324820.9		1	of	5

	Sam	ples a	nd In-sit	tu Tests	ter	kfill	D	Depth	Material
	Depth	No	Туре	Results	Water	Backfill	Description of Strata	(Thick ness)	Graphic Legend
	0.20	1	ES				TOPSOIL	(0.30)	1/ · 2 · 1/ · · 2 · 1/ 1/ · 2 · 1/ · · 2 · 1/ :\ \(\(\) · \\ \(\) \
- 18:52 TC9	- 0.20 - 0.40 - 0.40	3 4	D ES D				Compact dark orangish brown slightly gravelly sandy SILT. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of quartzite.	(0.35)	*o * * * * * * * * * * * * * * * * * *
1/12/22 - 18:	- 0.40-0.50 - - 0.70 - 0.70	6 7	LB ES D				Very stiff dark reddish brown slightly sandy silty CLAY. Sand is fine to coarse.	- 0.65 - - 0.85	× × × × × × × × × × × × × × × × × × ×
soils.co.uk. 17	- 0.70-0.80 1.00 - 1.00-1.10 - 1.00	8 10 11 9	LB D LB ES				Stiff to very stiff locally friable dark reddish brown and light grey slightly sandy CLAY. With frequent very thin beds (<40mm) of very weak light grey siltstone.	_ _ _ (0.45)	
k, Email: ask@	1.40 1.40 1.40	12 13	V ES D	c _u =>140			Stiff friable dark reddish brown locally mottled light grey slightly sandy CLAY. With occasional mudstone lithorelics (<10x10mm).	1.30 -	
9, Web: www.soils.co.uk	- 1.40-1.50 _ 1.40 - - - - - 2.10	14	LB V	c _u =110			below 2.00m: with frequent very thin beds (<40mm) of extremely weak and very weak reddish brown mudstone and siltstone.	- - - -	
2255, Fax: 01977-55229	- 2-10 - - -		נ					(1.90)	
INJ. Tel: 01977-55	2.80 	16	D				2.70-2.90m: thin bed (<200mm) of extremely weak and very weak light greenish grey siltstone.	-	
st Yorkshire, WF10	3.30-3.40 3.30 3.30	17 18	LB D				Extremely weak locally friable dark reddish brown MUDSTONE.	(0.50)	• • -
tteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22	- - - -						Trial pit terminated at 3.70m depth.	3.70	
teries, Pottery	-							- -	

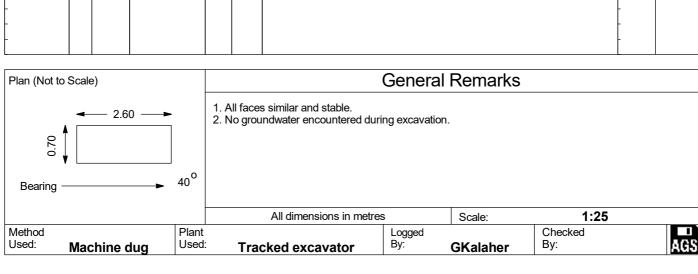


GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07 | Log TRIAL PITLOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10_1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/1/2/22 - 18:52 | TC9 |



Contract:				Client:					
EMG Pha	se 2				SEGRO			TF	217
Contract Ref:	Start:	28.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	28.09.22		89.01	E:446441.7 N:325131.0		1	of	4

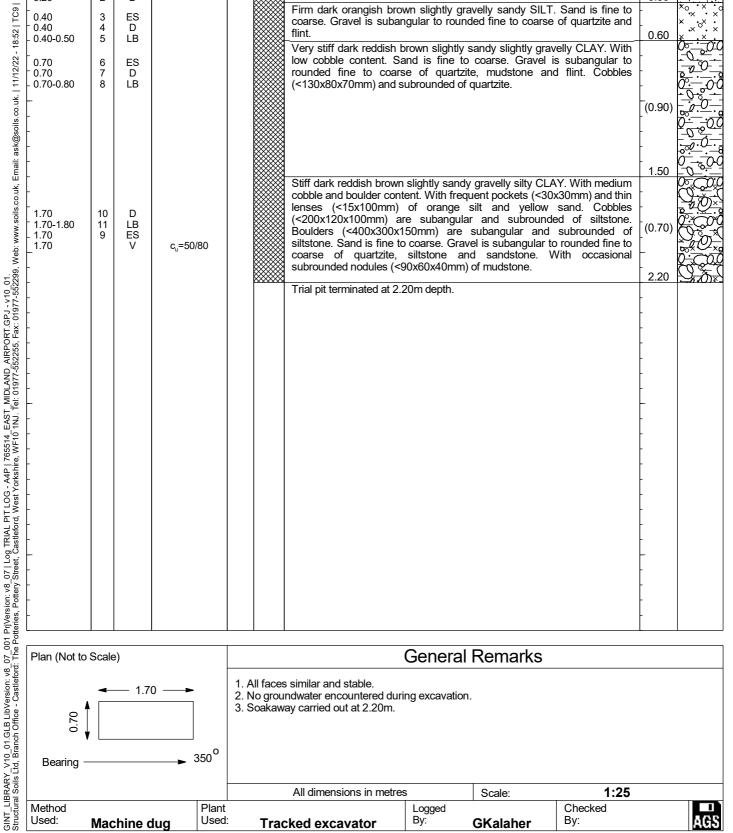
	Sam	oles a	nd In-si	tu Tests	ter	kfill	D	Depth	Material
	Depth	No	Туре	Results	Water	Backfill	Description of Strata	(Thick ness)	Graphic Legend
_	0.20	1 2	ES D				TOPSOIL	-(0.40) -0.40	\$\frac{1}{2} \cdot \frac{1}{2}
22 - 18:52 TC9	0.50 0.50 0.50 0.50-0.60	3 4 6	ES D LB				Orangish brown very gravelly silty SAND. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of quartzite, mudstone and flint.	(0.35)	*6
: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/	0.80 - 0.80 - 0.80-0.90 -	7 8 9	ES D LB				Very stiff dark greyish brown slightly sandy slightly gravelly silty CLAY with occasional very thin lenses (<100mm) of reddish brown gravelly fine to coarse sand. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of quartzite and flint, chalk, siltstone and sandstone with frequent pockets (<30x30mm) of orange and yellow silt.	- - - - - - - - - - - - - - - - - - -	
7 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web	2.80-2.90 - 2.80-2.90 - 2.80 - 2.80	10 11	V LB D V	c _u =120 c _u =107			2.50m: Cobble (<260x150x110mm) of subangular flint.	(2.43) - - - - - - - - - - - - - - - - - - -	
otteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 18:52 TC9	- - - - - - - -					*****	Trial pit terminated at 3.20m depth.	-	





Contract:				Client:	Trial Pit:				
EMG Pha	se 2						T	P18	
Contract Ref:	Start:	28.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	28.09.22		84.13	E:446580.8 N:325055.4		1	of	4

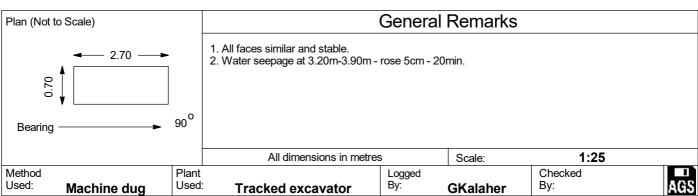
	Sam	ples a	nd In-si	tu Tests	Water	Backfill	Description of Church	Depth	Material Graphic
	Depth	No	Туре	Results	×	Вас	Description of Strata	(Thick ness)	Legend
C9	- 0.20 - 0.20 - 0.40	1 2	ES D				TOPSOIL (TOPSOIL) Firm dark orangish brown slightly gravelly sandy SILT. Sand is fine to	0.35	\(\frac{1}{2} \cdot 1
18:52 T	- 0.40 - 0.40 - 0.40-0.50	3 4 5	ES D LB				coarse. Gravel is subangular to rounded fine to coarse of quartzite and flint. Very stiff dark reddish brown slightly sandy slightly gravelly CLAY. With	0.60	<u> </u>
(@soils.co.uk. 11/12/22 -	- 0.70 - 0.70 - 0.70-0.80 	6 7 8	ES D LB				low cobble content. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of quartzite, mudstone and flint. Cobbles (<130x80x70mm) and subrounded of quartzite.	(0.90)	0.00 0.00 0.00
≣mail: ask	- - -							1.50	0,-00
299, Web: www.soils.co.uk, E	- 1.70 - 1.70-1.80 - 1.70 _ 1.70	10 11 9	D LB ES V	c _u =50/80			Stiff dark reddish brown slightly sandy gravelly silty CLAY. With medium cobble and boulder content. With frequent pockets (<30x30mm) and thin lenses (<15x100mm) of orange silt and yellow sand. Cobbles (<200x120x100mm) are subangular and subrounded of siltstone. Boulders (<400x300x150mm) are subangular and subrounded of siltstone. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of quartzite, siltstone and sandstone. With occasional subrounded nodules (<90x60x40mm) of mudstone.	(0.70)	
teries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 18:52 TC9							Trial pit terminated at 2.20m depth.	-	





Contract:				Client:		Trial Pit:			
EMG Pha	se 2				SEGRO			TI	P19
Contract Ref:	Start:	28.09.22	Groun	nd Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	28.09.22		75.72	E:446353.6 N:324934.2		1	of	4

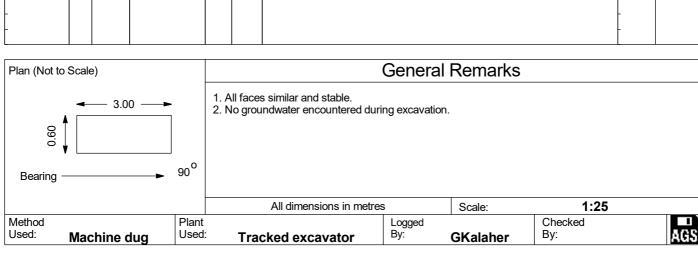
	Samp	oles a	nd In-sit	u Tests	Water	Backfill	Description of Otrodo	Depth	Material
	Depth	No	Туре	Results	Wa	Bac	Description of Strata	(Thick ness)	Graphic Legend
	- - 0.15 - 0.15	1 2	ES D				TOPSOIL	(0.30)	\(\frac{1}{2}\cdot \frac{1}{2}\cdot \fra
1001100:01	0.40 0.40 0.40	3 4 5	ES D LB				Stiff dark orangish brown slightly sandy slightly gravelly clayey SILT. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of quartz and flint.	(0.50)	* · · · · · · · · · · · · · · · · · · ·
)	0.90 -0.90 -0.90 0.90	6 7 8	ES D LB V	c _u =>140			Stiff to very stiff dark brown mottled grey yellow and orange slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is angular to rounded fine to coarse of quartzite, siltstone, sandstone and flint.	- -(0.80) - 1.60	
	1.70 1.70 1.70 1.70	10 11 9	D LB ES				Stiff dark reddish brown mottled grey slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of quartzite 1.80m: Boulder (<200x200x150mm) of subangular siltstone.	(0.30)	
	2.00 2.00 2.00 2.00	12 13 14	ES D LB				Stiff yellowish orangish brown mottled grey slightly sandy SILT. Locally sandy. Sand is fine to coarse.	-	* * * * * * * * * * * * * * * * * * *
					*		2.50m: Firm and stiff with occasional thin lenses (<100mm) of firm dark orangish brown mottled grey silty clay. Locally with frequent pockets of (<100mmx80mm) of black organic carbonaceous plant remains.	-(2.00)	*
	3.90 -3.95 - 3.95	17 15 16	LB ES D				Dark brown gravelly clayey SAND with occasional very thin lenses (<25mm) of firm dark brown slightly sandy silty clay. Sand is fine to coarse. Gravel is subangular to rounded fine to medium of quartzite, mudstone and flint. Trial pit terminated at 4.00m depth.	3.90	* · · · · · · · · · · · · · · · · · · ·
oueries, r ouery	-						Trial pit terminated at 4.00m depth.	_	





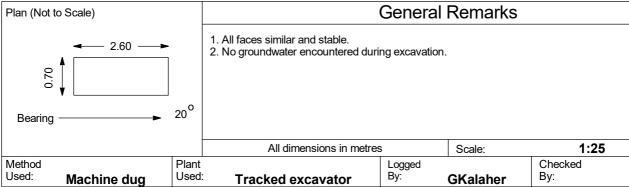
Contract:				Client:	Trial Pit:				
EMG Pha	se 2						T	P21	
Contract Ref:	Start:	06.10.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	06.10.22		72.83	E:446314.3 N:324790.0		1	of	5

	Sam	ples a	nd In-si	tu Tests	Water	kfill	Description of Otroto	Depth	Material
	Depth	No	Туре	Results	×	Backfill	Description of Strata	(Thick ness)	Graphic Legend
	- - 0.15 0.15	1 2	ES D				TOPSOIL.	(0.30)	17 · 3 · 17 · 3 · 17 · 3 · 17 · 3 · 17 · 3 · 17 · 3 · 17 · 3 · 17 · 3 · 17 · 3 · 17 · 3 · 3 · 3 · 3 · 3 · 3 · 3 · 3 · 3 ·
1/12/22 - 18:53 TC9	- 0.50 - 0.50 -	3 4	ES D				Very stiff dark reddish brown mottled grey slightly sandy CLAY. Sand is fine to coarse with occasional very thin beds (<25mm) of very weak light grey siltstone. (MERCIA MUDSTONE GROUP) Below 0.80m, friable.	(0.70)	
otteries, Pottery Street, Častleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 18:53 TC9	1.10 - 1.10 - 1.10 - 1.10-1.20 - 1.10	6 7 8	ES D B V	c _u =>140			Stiff to very stiff friable dark reddish brown slightly sandy CLAY with frequent beds (<40mm) of extremely weak dark reddish brown mudstone and very weak light grey siltstone. (MERCIA MUDSTONE GROUP)	1.00	
=10 1NJ. Tel: 01977-552255, Fax: 01977-5522	- - - - - - - - - - - - - - - - - - -	9 10	B D				Below 2.90m: grading to extremely weak mudstone. Trial pit terminated at 3.20m depth.	3.20	
tteries, Pottery Street, Castleford, West Yorkshire, WI	- - - - - - - -						,	- - - - - - - - -	



Contract:				Client:			Trial Pi	t:		
EMG Pha	ise 2					SEGRO			TF	P22
Contract Ref:	Start:	05.1	0.22	Ground Level (m A	AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	05.1	0.22	71.96		E:445927.4 N:324535.6		1	of	4
Samples and In-situ Tests	3	ater	Kfill			Description of Strate		Depth	1	aterial

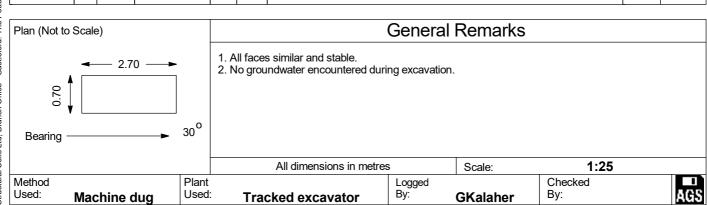
				/ate	ackf	Description of Strata	(Thick	
Depth	No	Туре	Results	5	ä		ness)	Legend
- 0.15 _ 0.15	1 2	n om				TOPSOIL Stiff yellowish brown and orangish brown slighty sandy slightly gravelly clavey SILT. Sand is fine to coarse. Gravel is subangular to rounded fine	(0.30)	\(\frac{1}{2}\frac{1}{
- 0.40 - 0.40 - 0.50-0.50 	5	20 B				to coarse of quartz and flint.	(0.90)	X X X X X X X X X X X X X X X X X X X
1.30 - 1.30 - 1.30-1.40 - 1.30-1.40	6 7 8	ES D B				CLAY. Sand is fine to coarse. Gravel is angular to rounded fine to coarse of quartz, flint, chalk, siltstone, sandstone and mudstone, with frequent pockets (<50x30) of yellow and orange silt and sand with occasional very thin lenses (<40mm) of red brown fine to coarse sand.	[(2.10)	
- - - - - - - -				1 =		Dark grangish brown slightly grayelly sithy SAND. Sand is fine to coarse	3.30	
3.40 3.40-3.50 3.40	10 11 9	D B ES				Dark orangish brown slightly gravelly silty SAND. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of quartz and flint. Trial pit terminated at 3.60m depth.	(0.30)	(%)
	Depth - 0.15 0.15 0.40 0.40 0.50-0.50 - 1.30 1.30 1.30-1.40	Depth No - 0.15	Depth No Type - 0.15	Depth No Type Results - 0.15	Depth No Type Results - 0.15	Depth No Type Results	Depth No Type Results Description of Strata	Depth No Type Results





Contract:				Client:		Trial Pit:				_
EMG Pha	se 2				SEGRO			TI	P2:	3
Contract Ref:	Start:	05.10.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:				
765514	End:	05.10.22		71.31	E:446025.7 N:324549.2		1	of	3	

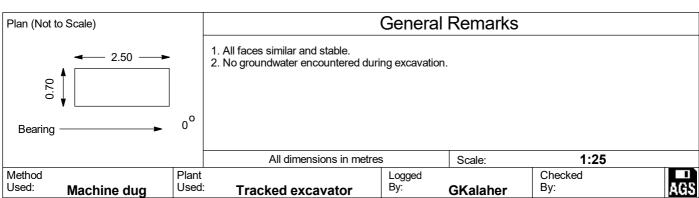
	Samp	oles a	nd In-si	tu Tests	iter	Backfill	Description of Charts	Depth	Material Graphic
	Depth	No	Туре	Results	Water	Вас	Description of Strata	(Thick ness)	Legend
/22 - 18:53 TC9	0.20 - 0.20 - 0.50 - 0.50 - 0.50 - 0.50-0.60 0.70-1.00	1 2 3 4 5 8	ES D ES D B B				TOPSOIL Very stiff dark reddish brown slightly sandy slightly gravelly clayey SILT. Sand is fine to coarse. Gravel is angular to rounded fine to coarse of quartz and flint.	0.40 - (0.40) - 0.40 - (0.40)	
teries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk, 11/12/22 - 18:53 TC9	0.90 -0.90 -0.90 -0.90 	6 7 9 10	ES D V	c _u =120			Stiff to very stiff friable dark reddish brown slightly sandy CLAY with occasional very thin beds (<25mm) of light greenish grey siltstone. (MERCIA MUDSTONE GROUP) Trial pit terminated at 3.20m depth.	- (2.40) 	
teries, Pottery Street, Castleford, West Yorkshire, Wi	-							- - - - - - - - -	





Contract:				Client:		Trial Pit:			
EMG Pha	se 2				SEGRO			TI	P24
Contract Ref:	Start:	05.10.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	05.10.22		69.09	E:446132.1 N:324501.5		1	of	4

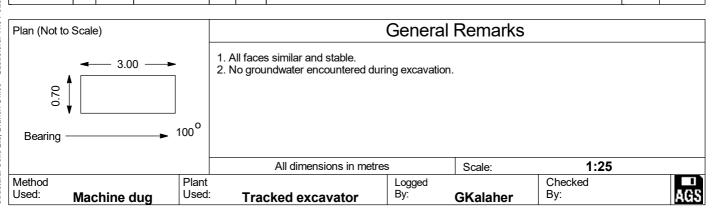
Sam	ples a	and In-situ Tests			iter	Description			Depth of Strata (Thick			Material Graphic
Depth	No	Туре	Result	ts	eM	Вас		Description	oi Siraia		ness)	Legend
- 0.05 0.05 0.30 - 0.30	1 2 3 4	ES D ES D					TOPSOIL Compact dark yellowish low cobble content. Sanfine to coarse of quartz a of quartz.	d is fine to co	arse. Gravel is and	gular to rounded	0.10	0° × 00 × 0° × 0 × 0° × 0° × 0° × 0° × 0
0.30-0.40 0.60 0.60 0.60-0.70 0.60	5 6 7 8	B ES D B V	c _u =110	0			Stiff to very stiff friable of CLAY with frequent ver siltstone. Sand is fine to (MERCIA MUDSTONE	ry thin beds coarse.	prown and light gre (<60mm) of very	y slightly sandy weak light grey	- (0.60)	* 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0
- 0.30 - 0.30 - 0.30-0.40 - 0.60 - 0.60 - 0.60-0.70 - 0.60 - 1.20 - 1.20-1.30 - 1.20 - 1.20 - 1.20	10 111 9	© B 80 >	c _u =120	0			Stiff to very stiff dark revery thin beds (<40mm) brown mudstone. (MERCIA MUDSTONE) Trial pit terminated at 3.1) of extremely GROUP)	slightly sandy CLA v weak to very we	AY with frequent ak dark reddish	1.10	
Plan (Not to	Soolo	2)						Conoral	Domarke			
Plan (Not to Plan (Not to Bearing - Method Used:		2.50		0°			s similar and stable. ndwater encountered durii	ng excavation				
Method			Ti	Plant			All dimensions in metres		Scale:	1:25 Checked		
Used:	Mac	hine c	I .	Used:		Trac	cked excavator	Logged By:	GKalaher	By:		AGS





Contract:				Client:		Trial Pit:			
EMG Pha	se 2				SEGRO			TI	P25
Contract Ref:	Start:	27.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	27.09.22		65.37	E:446080.2 N:324450.2		1	of	4

	Sam	ples a	nd In-si	tu Tests	Water	Backfill	Description of Charts	Depth	Material Graphic
	Depth	No	Туре	Results	Wa	Bac	Description of Strata	(Thick ness)	Legend
54 TC9	- 0.20 - 0.20 -	1 2	ES D				TOPSOIL Very stiff dark orangish brown slightly sandy slightly gravelly SILT. Sand is fine to coarse. Gravel is subangular fine to coarse of quartzite with	- (0.40) - 0.40	\$\dark \land \dark \land \dark
11/12/22 - 18:5	0.60 - 0.60 - 0.60-0.70	3 4 5	ES D LB				occasional pockets (<10x10m) of black organic carbonised plant remains.	0.90	*
s.co.uk, Email: ask@soils.co.uk. 11/12/22 - 18:54 TC9	- 1.10 - 1.10 - 1.10-1.20 -	6 7 8	ES D LB				Firm to stiff dark reddish brown, mottled grey, slightly sandy CLAY with occasional very thin beds (<30mm) of very weak light grey siltstone with frequent mudstone lithorelics. (<20x20mm) (MERCIA MUDSTONE GROUP)	(0.90)	
Fax: 01977-552299, Web: www.soils	- - 2.00 - 2.00-2.10 - 2.00	10 11 9	D LB ES				Stiff to very stiff friable dark reddish brown slightly sandy CLAY with frequent very thin beds (<40mm) of very weak reddish brown mudstone and light greenish grey siltstone. Sand is fine to coarse. (MERCIA MUDSTONE GROUP)	1.80	
stleford, West Yorkshire, WF10 1NJ. 1el: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk,	3.20	12 13	ES D				Very stiff locally friable dark reddish brown slightly sandy CLAY with frequent very thin beds (<30mm) of very weak light grey siltstone. (MERCIA MUDSTONE GROUP) Trial pit terminated at 3.20m depth.	3.10	
teries, Pottery Street, Castleford, West	-							- - -	

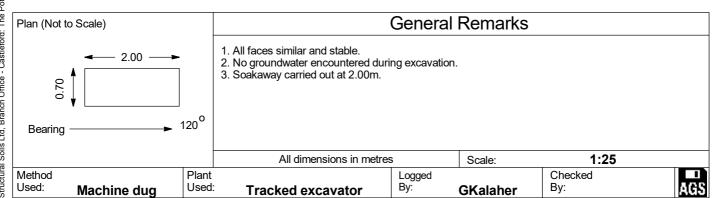




STRUCTURAL SOILS

Contract:				Client:		Trial Pit:				-
EMG Pha	se 2				SEGRO			TI	P26	ò
Contract Ref:	Start:	30.09.22	Groun	nd Level (m AOD):	National Grid Co-ordinate:	Sheet:				
765514	End:	30.09.22		76.87	E:445943.0 N:324731.8		1	of	3	

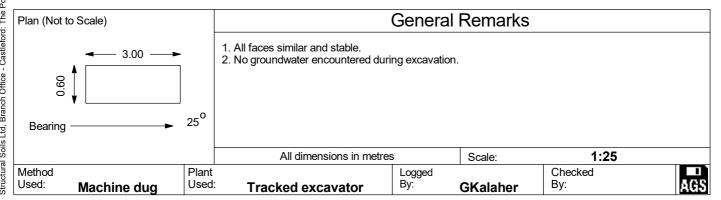
Samp	oles a	ınd In-sit	u Tests	Water	Backfill		Dogoristica	of Strata		Depth (Thick	Materia Graphi
Depth	No	Туре	Results	× ×	Bac		Description	oi Siraia		ness)	Legen
0.20 0.20	1 2	ES D				TOPSOIL				- (0.40) - 0.40	17 - 24 - 17 - 2
0.60 0.60 0.60 0.60	3 4 5	ES D LB V	c,=>140			Very stiff dark purplish b is fine to coarse. Gravel	rown slightly s is subangular	sandy slightly grave fine to coarse of si	elly CLAY. Sand Itstone.	(0.55)	
1.10 1.10 1.10	6 7 8	ES D LB	C _u > 140			Stiff dark purplish brow sandy CLAY. With fre occasional thick lamina extremely weak light gree (MERCIA MUDSTONE	quent mudsto ae (<20mm) enish grey silt:	one lithorelics (<1) and very thin be	0x10mm). With	- 0.95 - - - (0.55)	
1.60 1.60 1.60	10 11 9	D LB ES				Stiff to very stiff friable of sandy CLAY. With occar reddish brown mudstone mudstone lithorelics (<20	sional very thi e and light gre 0x20mm).	n beds (<30mm) of	very weak dark	(0.50)	
- -						(MERCIA MUDSTONE Trial pit terminated at 2.0	•			2.00	
										- - - - - - - - - - - - - - - - - - -	
Plan (Not to	Scale	e)					General	Remarks			
0.70		2.00	120°	2. I 3. S	No grou	s similar and stable. Indwater encountered duri ay carried out at 2.00m.					
Bearing -											
Bearing -			Pla			All dimensions in metres	Logged	Scale:	1:25 Checked		





Contract:				Client:		Trial Pit:			
EMG Pha	se 2				SEGRO			TF	P27
Contract Ref:	Start:	26.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	26.09.22		74.42	E:446148.2 N:324654.3		1	of	4

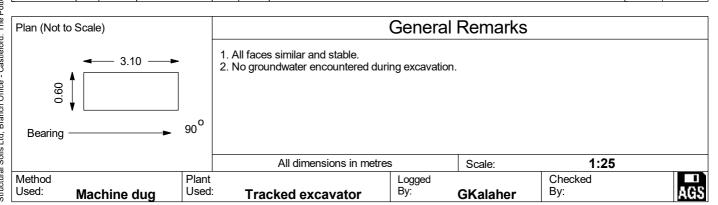
	Sam	ples a	nd In-sit	tu Tests	Water	Backfill	Description of Church	Depth	Material Graphic
	Depth	No	Туре	Results	Wa	Вас	Description of Strata	(Thick ness)	Legend
- 18:54 TC9	- 0.20 - 0.20 - 0.20 - 0.20-0.30 - 0.50 - 0.50 - 0.50	1 2 3 4 5 6	ES D B ES D B				TOPSOIL. Very stiff light brown and light grey slightly sandy slightly gravelly silty CLAY. Sand is fine to coarse. Gravel is angular to subangular tabular of siltstone. \((MERCIA MUDSTONE GROUP) \)	0.40	
nail: ask@soils.co.uk. 11/12/22	0.70 - 0.70 - 0.70-0.80 _ 0.70	7 8 9	ES DB >	c _u =>140			Very stiff dark reddish brown slightly sandy CLAY with occasional mudstone lithorelics. (<10x10m) Sand is fine to coarse. (MERCIA MUDSTONE GROUP)	(0.85)	
tteries, Pottery Street, Častleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 18:54 TC9	1.60 - 1.60 - 1.60-1.70 - 1.60	10 11 12	ES D B V	c _u =>140			Stiff to very stiff friable dark reddish brown slightly sandy CLAY with frequent mudstone lithorelics with occasional very thin beds (<25mm) of light grey siltstone. (MERCIA MUDSTONE GROUP)	-	
l: 01977-552255, Fax: 01977-55	- - 2.60-2.70 - 2.60	13 14	B D				\dots 2.50m: With frequent thick laminate to very thin beds (<30mm) of reddish brown mudstone.	(1.50)	
71NJ. Ťe	_						Trial pit terminated at 3.00m depth.	-	
shire, WF1Ĉ	-							- -	
rd, West York	-							- -	
eet, Častlefo								- -	
ies, Pottery Str	- - -							- - -	
ţ,		لــــــــــــــــــــــــــــــــــــــ			l			L	





Contract:				Client:		Trial Pit:			
EMG Pha	se 2				SEGRO			T	P28
Contract Ref:	Start:	06.10.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	06.10.22		74.20	E:446254.6 N:324734.0		1	of	4

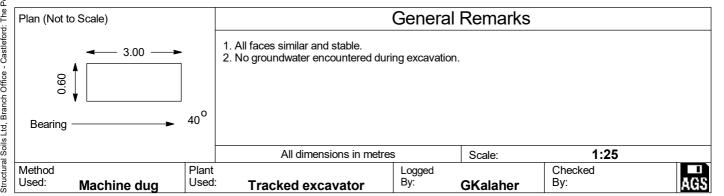
	Sam	ples a	nd In-sit	tu Tests	ter	kfill	D	Depth	Material
	Depth	No	Туре	Results	Water	Backfill	Description of Strata	(Thick ness)	Graphic Legend
	- - 0.15 _ 0.15	1 2	ES D				TOPSOIL.	(0.30)	\(\frac{1}{2}\frac{1}{
11/12/22 - 18:54 TC9	0.50 - 0.50 - 0.50-0.60 - 0.50	3 4 5	ES D B V	c _u =>140			Very stiff dark brown slightly sandy CLAY. Sand is fine to coarse.	(0.70)	
www.soils.co.uk, Email: ask@soils.co.uk.	1.10 1.10 - 1.10-1.20 _ 1.10	6 7 8	ES D B V	c _u =110			Stiff to very stiff friable dark reddish brown and light greenish grey slightly sandy CLAY with frequent closely to medium spaced very thin beds (<40mm) of very weak light greenish grey siltstone. (MERCIA MUDSTONE GROUP)	1.00	
Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 18:54 TC9	- - - - - - - -						Below 2.00m: Occasional siltstone and frequent extremely weak reddish brown mudstone beds.	(2.30)	
tteries, Pottery Street, Castleford, West Yorkshire, WF	3.30-3.40 - 3.35 - 3.35 - - - - - -	11 10 9	B D ES				Extremely weak dark reddish brown MUDSTONE. (MERCIA MUDSTONE GROUP) Trial pit terminated at 3.40m depth.	3.30	





Contract:				Client:		Trial Pi	t:		
EMG Pha	se 2				SEGRO			TP	29
Contract Ref:	Start:	26.09	9.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	26.09	9.22	73.09	E:446243.6 N:324661.8		1	of	4
Samples and In-situ Tests		_	=				Donth	Ma	terial

	Sam	iples a	and In-si	itu Tests	te	₩	Description of Otrota	Depth	Material
	Depth	No	Туре	Results	Water	Backfill	Description of Strata	(Thick ness)	Graphic Legend
s.co.uk. 11/12/22 - 18:55 TC9	0.20 - 0.20 - 0.20-0.30 - 0.50 - 0.50 - 0.50-0.60	1 2 3 4 5 6	ES D B ES D B				TOPSOIL Stiff to very stiff dark orangish reddish brown slightly sandy slightly gravelly clayey SILT. Sand is fine to coarse. Gravel is subangular fine to coarse of mudstone and quartz. Below 0.70m: Friable.	(0.35)	
o: www.soils.co.uk, Email: ask@soils	1.40 - 1.40 - 1.40 - 1.40-1.50	7 8 9	ES D B				Stiff dark reddish brown slightly sandy CLAY with frequent mudstone lithorelics. (<30x30m) with occasional thin beds (<40mm) of light greenish grey siltstone. (spacing - 300 to 800mm) (MERCIA MUDSTONE GROUP) Below 1.60m: Friable.	1.30	x - x - x - x - x - x - x - x - x - x -
Tel: 01977-552255, Fax: 01977-552299, Web	2.40-2.50 - 2.40 - 2.40	10 11	B D				Below 2.80m: With occasional thin to thick laminae (<20mm) of orangish brown SILT.	-(1.80)	
otteries, Pottery Street, Častleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 18:55 TC9	- - - - - - - - -						Trial pit terminated at 3.10m depth.		

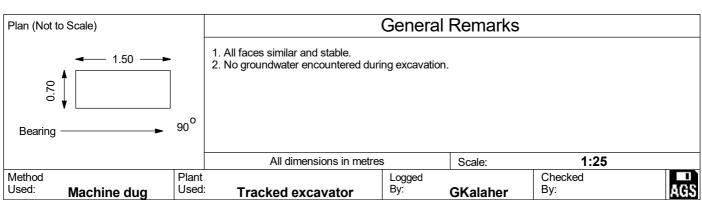




STRUCTURAL SOILS

Contract:				Client:		Trial Pit:			
EMG Pha	se 2				SEGRO			TI	P30
Contract Ref:	Start:	22.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	22.09.22		66.68	E:446232.9 N:324495.5		1	of	3

	Samp	oles a	nd In-si	tu Tests	Water	Backfill	Description of Strata	Depth (Thick	Materia Graphic
	Depth	No	Туре	Results	×	Вас		ness)	Legend
	0.20-0.20 0.20-0.20 0.20-0.35 0.40-0.40 0.40-0.40 0.40-0.40	1 2 3 4 5 6	ES D LB ES D LB	1xT+1xJ+1xV 1xT+1xJ+1xV			TOPSOIL Very stiff dark reddish brown slightly sandy slightly gravelly SILT. Sand is fine to coarse. Gravel is subangular and subrounded fine to coarse of sandstone and siltstone.	0.20	\(\frac{1}{2} \
-	0.90-0.90 -0.90-0.90 0.90-0.90	7 8 9	ES D LB	1xT+1xJ+1xV			Stiff dark reddish brown friable slightly sandy CLAY. Sand is fine to coarse. Occasional very thin beds (<30mm) of light greenish grey siltstone. (MERCIA MUDSTONE GROUP)	0.80	× · · · · · · · · · · · · · · · · · · ·
-	1.30-1.40 1.40-1.40 1.40-1.40	12 10 11	LB ES D	1xT+1xJ+1xV			Extremely weak dark reddish brown friable MUDSTONE with frequent very thin beds (<40mm) of very weak light greenish grey siltstone. (MERCIA MUDSTONE GROUP)	1.25	
-	-						Trial pit terminated at 2.00m depth.	2.00	
-								-	
- -								-	
-								-	
-								-	
-	-							- - -	
E								-	
	Plan (Not to	Scale	e)				General Remarks		
	02.0 Bearing —		1.5	90°			s similar and stable. ndwater encountered during excavation.		
	Method			Plant			All dimensions in metres Scale: 1:25 Logged Checked		
		Mac	hine c			Trac	cked excavator Checked By: GKalaher By:		AG

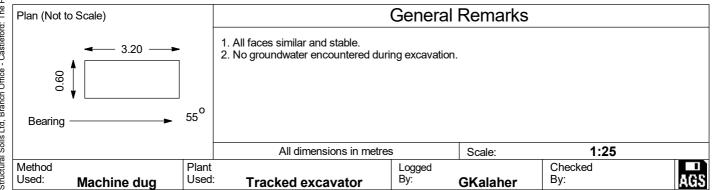




STRUCTURAL SOILS

Contract:				Client:		Trial Pit:			
EMG Pha	se 2				SEGRO			TI	P31
Contract Ref:	Start:	06.10.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	06.10.22		70.79	E:446338.0 N:324723.9		1	of	4

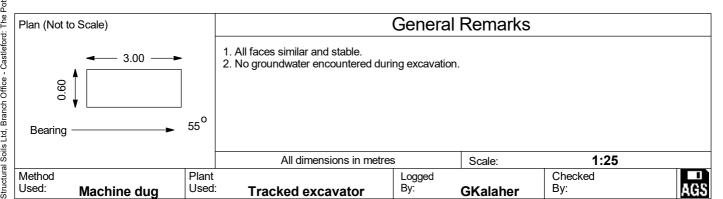
	Samp	oles a	nd In-si	tu Tests	je.	III.		Depth	Material
	Depth	No	Туре	Results	Water	Backfill	Description of Strata	(Thick ness)	Graphic Legend
	- - 0.15 _ 0.15	1 2	ES D				TOPSOIL	(0.30) 0.30	70.70.70 7.70.70
22 - 18:55 TC9	0.40 0.40 - 0.40 - 0.50-0.60	3 4 5	ES D V B	c _u =120			Very stiff dark reddish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subrounded to rounded fine to coarse of quartz.	(0.50)	
otteries, Pottery Street, Častleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk, 11/12/22 - 18:55 TC9	0.90 0.90 0.90-1.00 0.90 	6 7 8	ES D B V D B ES	c _u =105			Stiff to very stiff friable dark orangish reddish brown slightly sandy CLAY with frequent mudstone lithorelics (<15x15mm) with occasional very thin beds (<60mm) of very weak light greenish grey siltstone and frequent very thin beds (<60mm) of extremely weak to very weak reddish brown mudstone. (MERCIA MUDSTONE GROUP)	0.80	
WF10	- -					*****	Trial pit terminated at 3.20m depth.	- 3.20	
eries, Pottery Street, Castleford, West Yorkshire, W	- - - - - - - -							- - - - - - - -	





Contract:				Client:		Trial Pit:			
EMG Pha	se 2				SEGRO			TI	P32
Contract Ref:	Start:	23.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	23.09.22		64.32	E:446337.6 N:324462.3		1	of	4

	Sam	ples a	nd In-si	tu Tests	Water	Backfill	Description of Otroto	Depth	Material
	Depth	No	Туре	Results	×	Bac	Description of Strata	(Thick ness)	Graphic Legend
	- 0.20 - 0.20	1 2	ES D				TOPSOIL	(0.35) - 0.35	\(\frac{1}{2}\frac{1}{
/12/22 - 18:55 TC9	- 0.20-0.30 - 0.50 - 0.50 - 0.50-0.60	3 4 5 6	B ES D B				Very stiff dark brown slightly sandy CLAY with frequent very thin beds (<30mm) of extremely weak light grey siltstone.	(0.55)	
ls.co.uk, Email: ask@soils.co.uk. 11	- - 1.10 - 1.10 - 1.10-1.20 _ 1.10	7 8 9	ES D B V	c _u =90/105			Stiff to very stiff dark orangish reddish brown slightly sandy CLAY. Sand is fine to coarse. (MERCIA MUDSTONE GROUP)	(0.90)	
est Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 18:55 TC9	- 1.80 - 2.00 - 2.00 - 2.00-2.10 	10 11 12	V ES D B	c _u =90			Stiff to very stiff friable dark reddish brown slightly sandy CLAY with frequent mudstone lithorelics (<20x20mm) with occasional very thin beds (<30mm) of extremely weak brown mudstone. Sand is fine to coarse. (MERCIA MUDSTONE GROUP)	1.80	
tteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Te	-						Trial pit terminated at 3.00m depth.	- - - - - - - -	

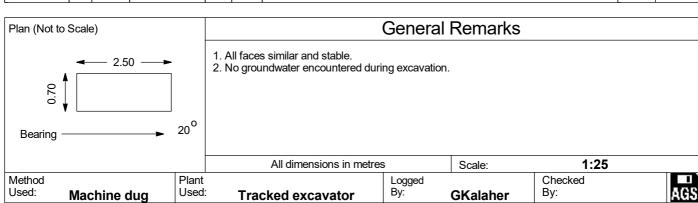




STRUCTURAL SOILS

Contract:				Client:		Trial Pit:			
EMG Pha	se 2						T	P33	
Contract Ref:	Start:	21.09.22	Ground	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	21.09.22		66.58	E:446469.7 N:324711.9		1	of	4

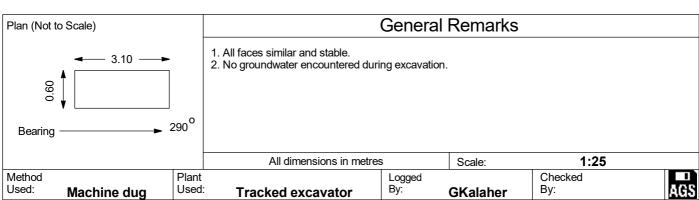
	Sam	ples a	and In-si	tu Tests	Water	Backfill	Decembring of Charte	Depth	Material Graphic
	Depth	No	Туре	Results	Wa	Bac	Description of Strata	(Thick ness)	Legend
1/12/22 - 18:55 TC9	0.20-0.20 - 0.20-0.20 - 0.20-0.35 - 0.40-0.40 - 0.40-0.40	1 2 3 4 5	ES D LB ES D V	1xT+1xJ+1xV 1xT+1xJ+1xV c _u =140			Very stiff reddish brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of mudstone and siltstone. (MERCIA MUDSTONE GROUP) 0.50-0.60m: thin bedded (up to 100mm) of extremely weak lightl grey silstone. 0.50-1.40m: become friable.	(0.35)	
.soils.co.uk, Email: ask@soils.co.uk. 1	1.20-1.20 - 1.20-1.40 - 1.50-1.50 - 1.50-1.50 - 1.50	6 7 8 9	D LB ES D V	1xT+1xJ+1xV c _u =150			0.75-1.40m: frequent mudstone lithorelicts (up to 25x25x30mm) and thick laminate of extremely weak mudstone (up to 20mm) Extremely weak dark reddish brown friable MUDSTONE. Occasional closely spaced thin beds (<40mm) of light greenish grey siltstone. (MERCIA MUDSTONE GROUP)	1.40	
55, Fax: 01977-552299, Web: www	- - - 2.20-2.80 - 2.20-2.20 - -	10 11	LB D					- - -(1.40) - - -	
e, WF10 1NJ. Tel: 01977-5522	2.90-2.90 - 2.90-2.90 - 2.90-3.20 	12 13 14	ES D LB	1xT+1xJ+1xV			Extremely weak dark reddish brown MUDSTONE. Occasional thin beds of extremely weak and very weak light greenish grey siltstone. (MERCIA MUDSTONE GROUP) Trial pit terminated at 3.20m depth.	2.80	
otteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk, 11/12/22 - 18:55 TC9	- - - - - - -							- - - - - - -	





Contract:				Client:		Trial Pit:			
EMG Pha	se 2				SEGRO			Т	P34
Contract Ref:	Start:	23.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	23.09.22		60.51	E:446451.3 N:324450.0		1	of	4

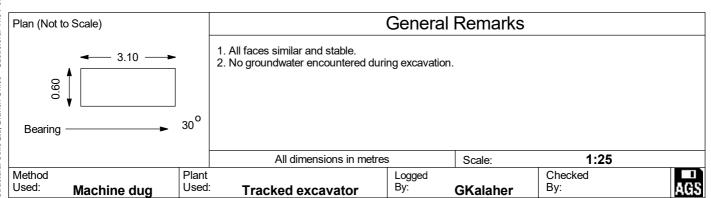
	Samı	ples a	ınd In-si	tu Tests	ter	kfill	Description of Otroto	Depth	Material
	Depth	No	Туре	Results	Water	Backfill	Description of Strata	(Thick ness)	Graphic Legend
_	0.20	1 2	ES D				TOPSOIL	-(0.40) - 0.40	\(\frac{\lambda \frac{\lambda}{\lambda} \frac{\lambda \frac{\lambda}{\lambda}
ık. 11/12/22 - 18:56 TC9	- 0.20-0.30 - 0.50 - 0.50 - 0.50-0.60	3 4 5 6	B ES D B				Firm to stiff dark reddish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular fine to coarse of siltstone. (MERCIA MUDSTONE GROUP)	- (0.80)	
vw.soils.co.uk, Email: ask@soils.co.u	1.30 - 1.30 - 1.30 - 1.30-1.40 -	7 8 9	ES D B				1.00-1.10m: Very thin bed (<100mm) of very weak light greenish grey siltstone. Stiff to very stiff friable dark reddish brown slightly sandy CLAY with frequent mudstone lithorelics . (<30x30mm) (MERCIA MUDSTONE GROUP)	1.20	
otteries, Pottery Street, Častleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 18:56 TC9	- - - 2.10 - 2.10-2.20 - - - - - - - - - -	10 11 12	ES D B				Extremely weak dark purplish brown MUDSTONE with occasional light greenish grey reduction horizons. (<20mm) (MERCIA MUDSTONE GROUP) 2.30-2.45m: Extremely weak light greenish grey siltstone 2.60m: Friable. Trial pit terminated at 3.10m depth.	(1.10)	
itteries, Pottery Street, Castlefc	- - - -							- - - -	





Contract:			Client:	Trial Pit:				
EMG Pha	se 2		SEGRO				T	P35
Contract Ref:	Start: 23.09	.22 Grour	nd Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End: 23.09	.22	59.52	E:446518.6 N:324546.7		1	of	4

	Samp	oles a	nd In-sit	tu Tests	Water	Backfill	Decemption of Strate	Depth (Thick	Material Graphic
	Depth	No	Туре	Results	×	Bac	Description of Strata	ness)	Legend
	0.20	1	ES				TOPSOIL	(0.30)	70.70.70 7.74.7.77 7.74.7.77
O.dr. 11/12/22 - 10:30 109	0.20 0.20-0.30 0.40 0.40-0.50	2 3 4 5	D B ES B				Compact friable dark orangish brown slightly sandy SILT. Sand is fine to coarse with occasional pockets (<40x30) of light grey silt and black organic carbonaceous material.	- -(0.80) - - 1.10	* * * * * * * * * * * * * * * * * * *
in, Ellian. dangaana.o	1.10 1.20 1.20 1.20-1.30 1.30	6 7 8	V ES D B V	c _u =110/116 c _u =56/70/90			Stiff dark orangish brown slightly sandy slightly gravelly silty CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of quartz and flint. Occasional pockets (<30x30mm) of yellow and grey silt. 1.30m: Locally with frequent thin lenses (<20mm) of light yellow and orange silt. Becoming firm to stiff.	(0.50)	x x
2233, Web. WWW.solls.co.	1.60 1.75 1.75-1.85 1.75	10 11 9	V D B ES	c _u =40			Firm to stiff dark reddish brown mottled light grey slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular fine to coarse of light grey siltstone. (MERCIA MUDSTONE GROUP)	- - - - (1.20)	
-005500, 1 dA. 01011-00	2.50		V	c _u =52			2.50m: Stiff.	2.80	
10 1140. 101. 0101.	· - - -						Very stiff friable dark reddish brown CLAY with abundant mudstone and siltstone lithorelics (<50x50mm). (MERCIA MUDSTONE GROUP) 2.80m: Groundwater seepage (low inflow insufficient for water sample) No significant/measureable rise. 3.00m: Becoming firm to stiff with frequent thin beds (<30mm) of	-(0.60)	
dastreiora, west ronsillie, wr							light greenish grey siltstone. 3.2-3.40m: Friable. Trial pit terminated at 3.40m depth.	3.40	<u>===</u>
meries, rouery oreer,	-							-	

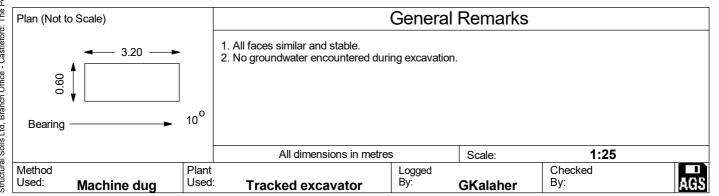




STRUCTURAL SOILS

Contract:				Client:		Trial Pit:			
EMG Pha	se 2						TI	P36	
Contract Ref:	Start:	23.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	23.09.22		71.78	E:446687.0 N:324743.3		1	of	4

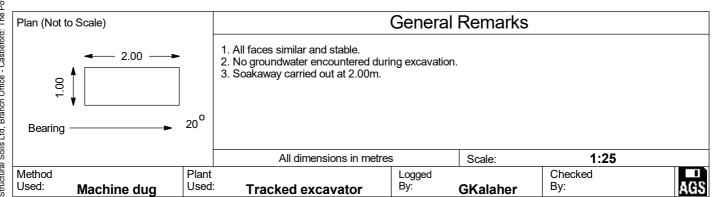
	Sam	ples a	nd In-si	tu Tests	Water	Backfill	Description of Strate	Depth (Thick	Material Graphic
	Depth	No	Туре	Results	Wa	Bac	Description of Strata	ness)	Legend
	0.10-0.20 0.20	3	B ES				TOPSOIL	(0.30)	\(\frac{1}{2}\frac{1}{
- 18:56 TC9	- 0.20 - - 0.45 _ 0.45 _ 0.45	2 4 5 6	D ES D B				Stiff to very stiff dark reddish brown slightly sandy slightly gravelly silty CLAY. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of quartz and mudstone.	(0.45)	x
co.uk. 11/12/22	0.80 - 0.80 - 0.80-0.90	7 8 9	ES D B				Stiff to very stiff dark reddish brown slightly sandy slightly gravelly CLAY with occasional very thin (<60mm) beds of very weak light grey siltstone. Sand is fine to coarse. Gravel is subangular fine to coarse of siltstone. (MERCIA MUDSTONE GROUP)	- 0.75 - - - (0.35) - 1.10	
soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 18:56 TC9	1.10-1.30 1.30 1.30	10 11	B ES D				Stiff to very stiff friable dark orangish brown slightly sandy slightly gravelly CLAY with frequent thin to thick laminae (<15mm) of orange silt, with occasional very thin beds (<30mm) of light greenish grey siltstone with occasional pockets (<4x4mm) of black organic carbonaceous plant remains. (MERCIA MUDSTONE GROUP) Below 1.30m: Reddish brown.	- (0.80)	
01977-552255, Fax: 01977-552299, Web: www.soils.co.uk,	2.00 - 2.00 - 2.00-2.10	13 14 15	ES D B	c _r =62			Stiff dark reddish brown slightly sandy CLAY with frequent mudstone lithorelics (<25x25mm). Sand is fine to coarse. With frequent very thin beds (<35mm) of light grey and brown siltstone. (MERCIA MUDSTONE GROUP)	1.90	
'-552255, Fax: 0	2.70-2.80	18	В				2.50-2.70m: Thin bed (<200mm) of very weak light greenish grey siltstone. Extremely weak dark reddish brown locally light grey MUDSTONE.	2.70	
otteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-	- 2.75 - 2.75 	16 17	ES D				(MERCIÁ MUDSTONE GROUP) Trial pit terminated at 2.80m depth.	-	





Contract:				Client:		Trial Pit:			
EMG Pha	se 2				SEGRO			TI	P37
Contract Ref:	Start:	21.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	21.09.22		55.37	E:446674.7 N:324413.8		1	of	4

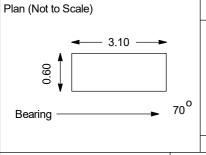
	Sam	ples a	nd In-si	tu Tests	ter	¥ξ	Description of Otroto		Material
	Depth	No	Туре	Results	Water	Backfill	Description of Strata	(Thick ness)	Graphic Legend
	0.10-0.10 - 0.10-0.10 - 0.10-0.10	1 2 3	ES D LB	1xT+1xJ+1xV			Stiff dark brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular and subrounded fine to coarse of quartzite, granodiorite, siltstone and glass and ceramic tile and plastic sheet. (MADE GROUND - TOPSOIL)	(0.30)	7 6 - 7 6 -
3:56 TC9	0.40-0.40 0.40-0.40	4 5	ES D	1xT+1xJ+1xV			Stiff dark brown slightly gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is subangular and subrounded fine to coarse of quartzite and flint.	- (0.60)	
2/22 - 18	0.60		V	c _u =90				-	
ask@soils.co.uk. 11/12/22 - 18:56 TC9	1.00 1.10-1.10 1.10-1.10	6 7	V ES D	c _u =110 1xT+1xJ+1xV			0.80-0.90m: gravel is subangular fine to coarse of flint. Stiff dark brown, locally mottled dark grey, slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular fine to coarse of quartzite, sandstone, siltstone.	0.90	
eries, Pottery Street, Častleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@s	1.10-1.10 1.10-1.10 1.40-1.40 1.40-1.40 1.50-1.50	7 8 10 9 111	D LB D ES V LB	1xT+1xJ+1xV c _u =38			Firm multicoloured (dark brown, light brown, yellowish brown and grey) slightly gravelly sandy SILT, locally silty clay. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of flint, sandstone and siltstone 1.60-2.00m: becoming firm to stiff silty CLAY. Occasional very thin beds of fine to coarse sand. Trial pit terminated at 2.00m depth.	2.00	
eries, Pottery Street, Častleford, West Yorkshire, WF10 1NJ. Tel:								-	





Contract:				Client:		Trial Pit:			
EMG Phase 2				SEGRO			TF	P39	
Contract Ref:	Start:	26.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	26.09.22					1	of	3

Sam	ples a	and In-sit	tu Tests	Water	Backfill	Description of Otrodo		Depth	Materia Graphic		
Depth	No	Туре	Results	N W	Bac		Description	of Strata		(Thick ness)	Legend
0.15 0.15 0.15-0.25 0.40 0.40 0.40-0.50 0.70 0.70	1 2 3 4 5 6 7 8 9	808 808				Very stiff dark brown sl fine to coarse. Gravel is and mudstone. Firm to stiff thinly to thi Sand is fine to coarse. 0.80m: Stiff greyish	s subangular to	o rounded fine to d	coarse of quartz	(0.30) 0.30 - 0.55 - (0.65)	
1.30 1.30 1.30-1.40	10 11 12	ES D B				Firm dark greyish brow CLAY with frequent po and orange silt. Sand is fine to coarse of quartzit	ckets (<40x40 fine to coarse	mm) and thick lar	minae of yellow	1.20	
1.80 1.80 1.80-1.90	13 14 15	ES D B				Firm to stiff dark reddis with frequent mudstone beds (<30mm) of extren (MERCIA MUDSTONE	lithorelics (<30 nely weak to ve	0x30mm) with occa	asional very thin	1.60	
2.90 -2.90 2.90-3.00	16 17 18	ES D B		<u></u>	7 -	Firm to stiff friable dariabundant mudstone lithe (MERCIA MUDSTONE 3.00m: With frequents illustrated at 3.6	orelics (<60x60 GROUP) uent very thin	0x30mm).	•	2.80	X X
Plan (Not to	Scale	e) 3.10	0 ->			s similar and stable. strike at 2.80m.	General	Remarks		-	
Bearing -			70 ⁰	0		All dimensions in metre	S	Scale:	1:25		
			Pla	nt .			1	J Codio.	Checked		
Method			[[[al IL			Logged		Checked		AG

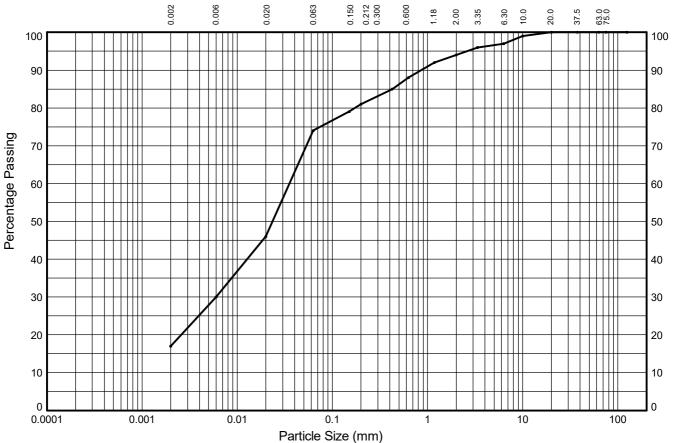


General Remarks

- 1. All faces similar and stable.
- 2. Water strike at 2.80m.

In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Borehole: BH04 Sample Ref: 10 Sample Type: Depth (m): 2.70



_						,					
Γ		fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
	CLAY	13%	16%	28%	7%	7%	6%	3%	3%	0%	COBBLES
			SILT			SAND		(GRAVEL	_	
	17%	57%			20%				0%		

Test Sieve	Percent Passing
(mm)	(%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 100 100 100 100 99 97 96 94 92 88 85 81 79

Particle Diameter	Percent Passing						
(mm)	(%)						
0.02	46						
0.02	10						
0.006	30						
0.000	30						
0.000	47						
0.002	17						
Sedimentation sample was not							
pre-treated							

Coeffi	Coefficients							
D ₁₀ (mm)	NA							
D ₁₅ (mm)	NA							
D ₃₀ (mm)	0.006							
D ₅₀ (mm)	0.024							
D ₆₀ (mm)	0.035							
D ₈₅ (mm)	0.425							
D ₉₀ (mm)	0.862							
C _U	NA							
C _c	NA							
D ₆₀ (mm) D ₈₅ (mm) D ₉₀ (mm)	0.035 0.425 0.862 NA							

Soil Description:

Red brown slightly gravelly slightly sandy clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



STRUCTURAL SOILS The Potteries **Pottery Street** Castleford W. Yorkshire WF10 1NJ

Compiled By					
	LORNA WHITWORTH				
Contract		Contract Ref:			

EMG Phase 2



100

90

80

70

60

50

0.0001

Percentage Passing

PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

20 Borehole: BH05 Sample Ref: Sample Type: В Depth (m): 5.00 0.212 0.002 900.0 0.063 63.0 10.0 37.5 2.00 3.35 6.30

40 30 20 10

> 0.1 Particle Size (mm)

0.01

					,					
	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	6%	8%	14%	4%	6%	24%	18%	10%	1%	COBBLES
		SILT			SAND		(GRAVEL	_	
9%	28%			34%			29%			0%

Test Sieve (mm)	Percent Passing (%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 100 100 100 99 93 89 81 71 55 47 45 41 40

0.001

Particle Diameter (mm)	Percent Passing (%)						
0.02	23						
0.006	15						
0.002	9						
Sedimentation sample was not pre-treated							

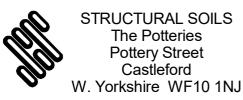
Coeff	icients
D ₁₀ (mm)	0.002
D ₁₅ (mm)	0.006
D ₃₀ (mm)	0.035
D ₅₀ (mm)	0.797
D ₆₀ (mm)	1.392
D ₈₅ (mm)	4.594
D ₉₀ (mm)	7.071
C _U	579
C_{c}	0.38

10

Soil Description:

Brown slightly gravelly slightly sandy clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



Compiled By					
		LORNA WHITWORTH			
Contract		Contract Ref:			

EMG Phase 2

765514

AGS

100

90

80

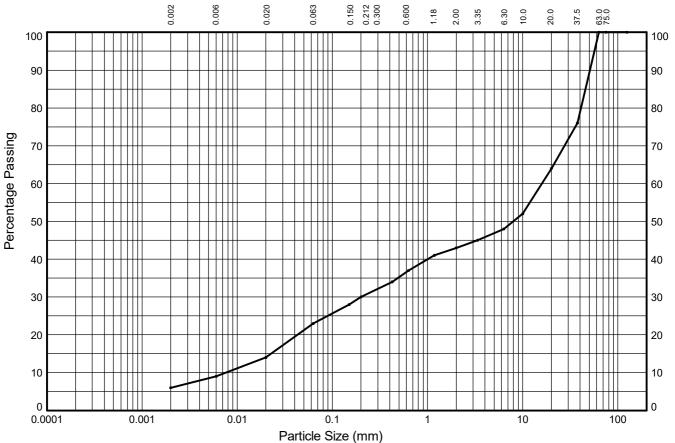
70

60

50

In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016 **NON-STANDARD TEST**

Borehole: BH05 Sample Ref: 28 Sample Type: В Depth (m): 7.50



	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	3%	5%	9%	7%	7%	6%	5%	16%	36%	COBBLES
		SILT			SAND		(GRAVEL	_	
6%	17%		17% 20% 57%				20%			0%

Test Sieve (mm)	Percent Passing (%)
125.0	100
75.0	100
63.0	100
37.5	76
20.0	64
10.0	52
6.30	48
3.35	45
2.00	43
1.18	41
0.630	37
0.425	34
0.200	30
0.150	28
0.063	23

Particle Diameter (mm)	Percent Passing (%)			
0.02	14			
0.006	9			
0.002	6			
Sedimentation sample was not pre-treated				

Coeffi	cients
D ₁₀ (mm)	0.008
D ₁₅ (mm)	0.023
D ₃₀ (mm)	0.200
D ₅₀ (mm)	7.937
D ₆₀ (mm)	15.874
D ₈₅ (mm)	45.554
D ₉₀ (mm)	50.753
C	2080
C _C	0.33

Soil Description:

Brown sandy clayey silty GRAVEL

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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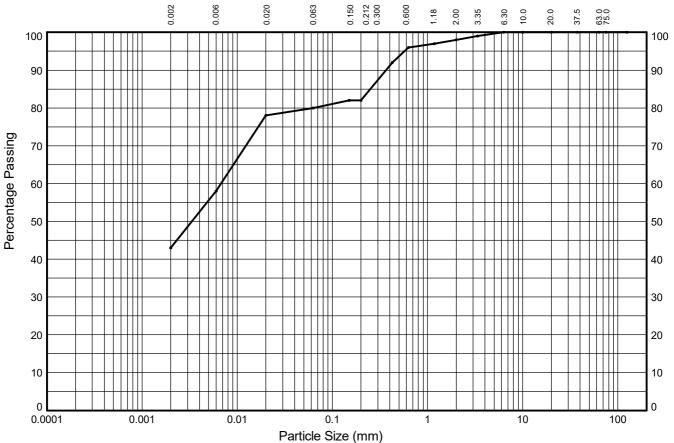
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EMG Phase 2



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Borehole: BH06 Sample Ref: 11 Sample Type: B Depth (m): 2.00



	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	15%	20%	2%	2%	14%	2%	2%	0%	0%	COBBLES
		SILT			SAND		(GRAVEL	_	
43%		37%			18%			2%		0%

Test Sieve (mm)	Percent Passing (%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 100 100 100 100 100 100 99 98 97 96 92 82 82 80
	l

Particle Diameter (mm)	Percent Passing (%)
0.02	78
0.006	58
0.002	43
Sedimentation s	

Coeffi	cients
D ₁₀ (mm)	NA
D ₁₅ (mm)	NA
D ₃₀ (mm)	NA
D ₅₀ (mm)	0.003
D ₆₀ (mm)	0.007
D ₈₅ (mm)	0.251
D ₉₀ (mm)	0.366
C _U	NA
C _C	NA

Soil Description:

Brown slightly gravelly slightly sandy silty CLAY

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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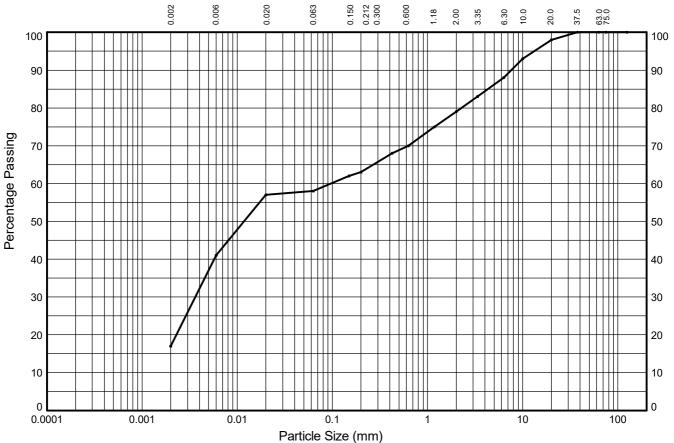
Compiled By				
			LAURA SCHRAMM	27/02/23
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EMG Phase 2



In accordance with clauses 9.2, 9.4 of BS1377:Part 2:1990

Borehole: **BH08** Sample Ref: **19** Sample Type: **B** Depth (m): **4.00**



_											
		fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
	CLAY	24%	16%	1%	5%	7%	9%	9%	10%	2%	COBBLES
	SILT		SAND		GRAVEL						
	17%	41%		21%			21%			0%	

T4 0:	D Di
Test Sieve	Percent Passing
(mm)	(%)
125.0	100
1-010	
75.0	100
63.0	100
37.5	100
20.0	98
10.0	93
6.30	88
3.35	83
2.00	79
1.18	75
0.600	
0.425	68
0.212	
0.150	62
0.063	58
0.500	

Particle Diameter (mm)	Percent Passing (%)				
0.02	57				
0.006	41				
0.002	17				
Sedimentation sample was not pre-treated					

Coefficients							
D ₁₀ (mm)	NA						
D ₁₅ (mm)	NA						
D ₃₀ (mm)	0.004						
D ₅₀ (mm)	0.012						
D ₆₀ (mm)	0.097						
D ₈₅ (mm)	4.313						
D ₉₀ (mm)	7.579						
C _U	NA						
C_{c}	NA						

Soil Description:

Brown slightly gravelly slightly sandy clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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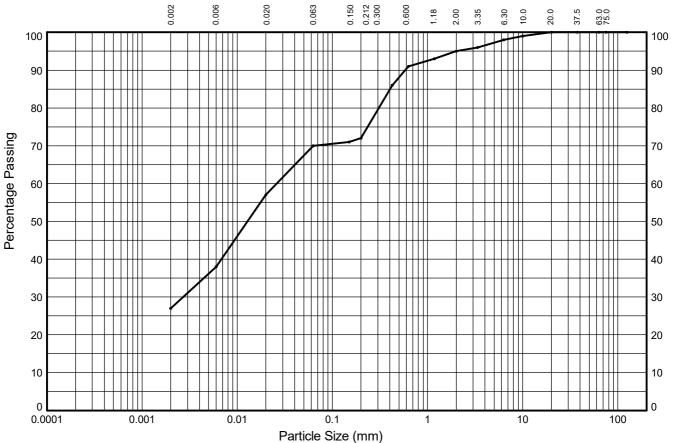
Compiled By						Date	
					LUKE FISHER		27/02/23
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EMG Phase 2



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Borehole: BH09 Sample Ref: 20 Sample Type: B Depth (m): 2.50



					-					
	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	11%	19%	13%	2%	19%	4%	3%	2%	0%	COBBLES
SILT		SAND		GRAVEL						
27%	43%		25%		5%			0%		

Test Sieve	Percent Passing
(mm)	(%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 100 100 100 100 99 98 96 95 93 91 86 72 71

Particle Diameter (mm)	Percent Passing (%)						
0.02	57						
0.006	38						
0.002	27						
Sedimentation sample was not pre-treated							
•							

Coefficients						
D ₁₀ (mm)	NA					
D ₁₅ (mm)	NA					
D ₃₀ (mm)	0.003					
D ₅₀ (mm)	0.013					
D ₆₀ (mm)	0.026					
D ₈₅ (mm)	0.403					
D ₉₀ (mm)	0.582					
C _U	NA					
C _C	NA					

Soil Description:

Brown/red slightly gravelly slightly sandy clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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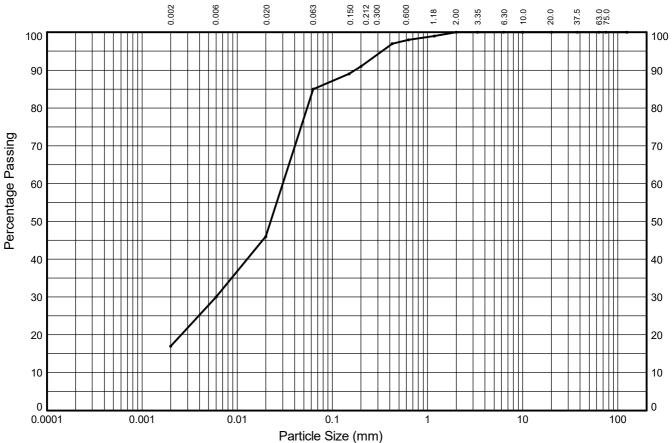
EMG Phase 2

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In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Borehole: BH09 Sample Ref: 28 Sample Type: B Depth (m): 4.50



	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	13%	16%	39%	6%	7%	2%	0%	0%	0%	COBBLES
SILT		SAND		GRAVEL						
17%	68%		15%		0%			0%		

Test Sieve (mm)	Percent Passing (%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 100 100 100 100 100 100 100 99 98 97 91 89 85

Particle Diameter (mm)	Percent Passing (%)			
0.02	46			
0.006	30			
0.002	17			
Sedimentation sample was not pre-treated				

Coefficients					
D ₁₀ (mm)	NA				
D ₁₅ (mm)	NA				
D ₃₀ (mm)	0.006				
D ₅₀ (mm)	0.022				
D ₆₀ (mm)	0.030				
D ₈₅ (mm)	0.063				
D ₉₀ (mm)	0.173				
C _U	NA				
C _c	NA				

Soil Description:

Red brown slightly sandy clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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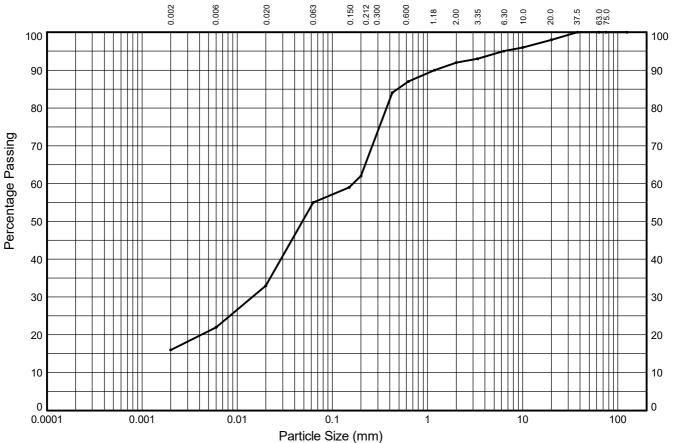
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		LORNA WHITWORTH	17/03/23
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EMG Phase 2



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Borehole: BH10 Sample Ref: 5 Sample Type: В Depth (m): 0.70



	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	6%	11%	22%	7%	25%	5%	3%	3%	2%	COBBLES
		SILT			SAND			GRAVEL	_	
16%		39%			37%			8%		0%

Test Sieve	Percent Passing
(mm)	(%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 100 100 100 98 96 95 93 92 90 87 84 62 59

Percent Passing (%)				
(70)				
33				
22				
16				
Sedimentation sample was not pre-treated				

Coefficients					
D ₁₀ (mm)	NA				
D ₁₅ (mm)	NA				
D ₃₀ (mm)	0.014				
D ₅₀ (mm)	0.049				
D ₆₀ (mm)	0.165				
D ₈₅ (mm)	0.485				
D ₉₀ (mm)	1.180				
C _U	NA				
C_{c}	NA				

Soil Description:

Brown grey slightly gravelly sandy clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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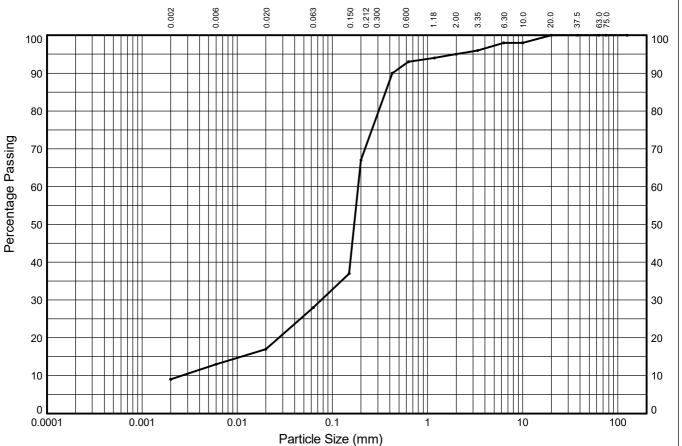
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765514 **EMG Phase 2**



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016 NON-STANDARD TEST

Borehole: **BH10** Sample Ref: **6** Sample Type: **D** Depth (m): **0.90**



				`	,					
	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	4%	4%	11%	39%	26%	2%	3%	2%	0%	COBBLES
		SILT			SAND		(GRAVEL	_	
9% 19%					67%			0%		

Test Sieve (mm)	Percent Passing (%)
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	98
6.30	98
3.35	96
2.00	95
1.18	94
0.630	93
0.425	90
0.200	67
0.150	37
0.063	28

Particle Diameter (mm)	Percent Passing (%)			
0.02	17			
0.006	13			
0.002	9			
Sedimentation sample was not pre-treated				

Coefficients					
D ₁₀ (mm)	0.003				
D ₁₅ (mm)	0.011				
D ₃₀ (mm)	0.076				
D ₅₀ (mm)	0.170				
D ₆₀ (mm)	0.187				
D ₈₅ (mm)	0.361				
D ₉₀ (mm)	0.425				
C _U	71				
C _C	12				

Soil Description:

Brown gravelly clayey silty SAND

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



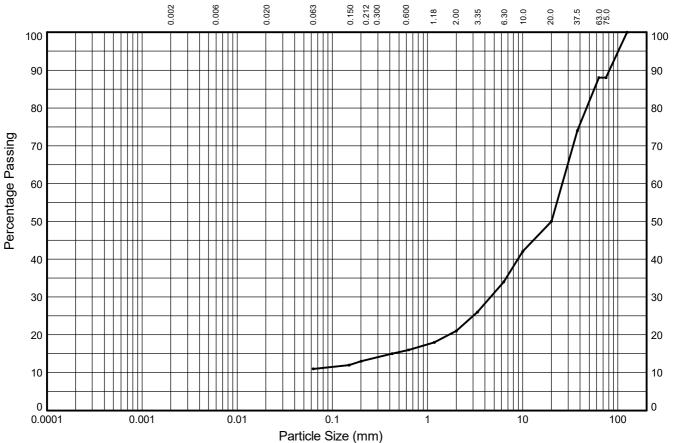
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EMG Phase 2

In accordance with clauses 5.2 of BS EN ISO 17892:Part 4:2016 NON-STANDARD TEST

Borehole: **BH12** Sample Ref: **47** Sample Type: **B** Depth (m): **15.50**



					,					
	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	-	-	-	2%	3%	5%	13%	16%	38%	COBBLES
	SILT		SAND		GRAVEL					
11%			10%			67%			12%	

Test Sieve (mm)	Percent Passing (%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 88 88 74 50 42 34 26 21 18 16 15 13

Particle Diameter (mm)	Percent Passing (%)
	l sample was not eated
	<u> </u>

Coeffi	cients
D ₁₀ (mm)	NA
D ₁₅ (mm)	0.425
D ₃₀ (mm)	4.594
D ₅₀ (mm)	20.000
D ₆₀ (mm)	25.988
D ₈₅ (mm)	56.372
D ₉₀ (mm)	81.665
C _U	NA
C _C	NA

Soil Description:

Brown sandy silty/clayey GRAVEL with medium cobble content

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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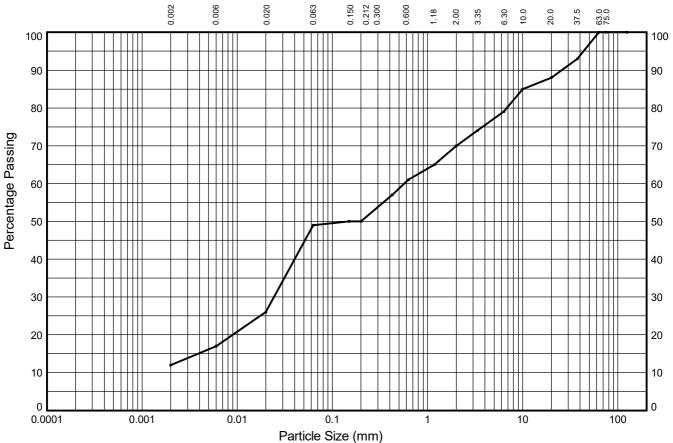
Compiled By						
	LAURA SCHRAMM	27/02/23				
Contract	Contract Ref:	•				

EMG Phase 2



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Borehole: BH13 Sample Ref: 26 Sample Type: B Depth (m): 6.00



	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	5%	9%	23%	1%	11%	9%	9%	9%	12%	COBBLES
		SILT			SAND		(GRAVEL	_	
12%	37%			21%		30%			0%	

Test Sieve (mm)	Percent Passing (%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 100 93 88 85 79 74 70 65 61 57 50 49

Passing %)
6
7
2
ot
-

Coeffi	cients
D ₁₀ (mm)	NA
D ₁₅ (mm)	0.004
D ₃₀ (mm)	0.024
D ₅₀ (mm)	0.150
D ₆₀ (mm)	0.571
D ₈₅ (mm)	10.000
D ₉₀ (mm)	25.718
C _U	NA
C _c	NA

Soil Description:

Brown/red slightly sandy slightly gravelly clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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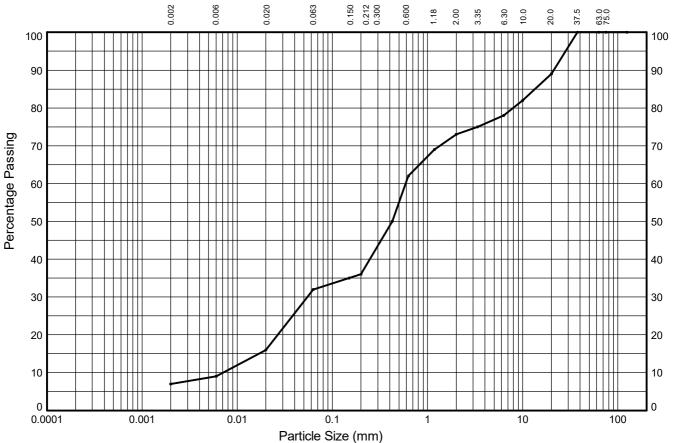
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		LORNA WHITWORTH	27/02/23
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EMG Phase 2



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016 NON-STANDARD TEST

Borehole: BH14 Sample Ref: 26 Sample Type: B Depth (m): 6.00



		fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
	CLAY	2%	7%	16%	4%	26%	11%	5%	11%	11%	COBBLES
			SILT			SAND		(GRAVEL	_	
	7%	25%			41%			27%			0%

Test Sieve (mm)	Percent Passing (%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 100 100 100 89 82 78 75 73 69 62 50 36 35

Particle Diameter (mm)	Percent Passing (%)				
0.02	16				
0.006	9				
0.002	7				
Sedimentation sample was not pre-treated					

Coefficients					
D ₁₀ (mm)	0.007				
D ₁₅ (mm)	0.017				
D ₃₀ (mm)	0.055				
D ₅₀ (mm)	0.425				
D ₆₀ (mm)	0.590				
D ₈₅ (mm)	13.459				
D ₉₀ (mm)	21.176				
C _U	83				
C _c	0.71				

Soil Description:

Brown very gravelly clayey very silty SAND

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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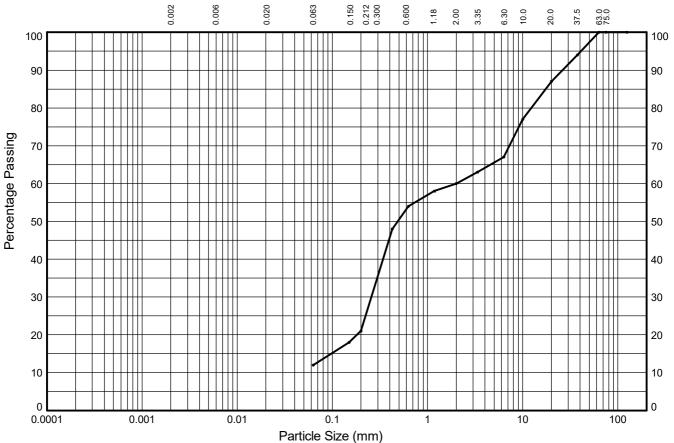
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EMG Phase 2



In accordance with clauses 5.2 of BS EN ISO 17892:Part 4:2016 NON-STANDARD TEST

Borehole: BH15 Sample Ref: 18 Sample Type: B Depth (m): 4.00



	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	-	-	-	9%	33%	6%	7%	20%	13%	COBBLES
		SILT			SAND		(GRAVEL	_	
12%			48%			40%		0%		

Test Sieve (mm)	Percent Passing (%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 100 100 94 87 77 67 63 60 58 54 48 21 18

Particle Diameter (mm)	Percent Passing (%)
	sample was not eated

Coefficients						
D ₁₀ (mm)	NA					
D ₁₅ (mm)	0.097					
D ₃₀ (mm)	0.257					
D ₅₀ (mm)	0.485					
D ₆₀ (mm)	2.000					
D ₈₅ (mm)	17.411					
D ₉₀ (mm)	26.184					
C _U	NA					
C_C	NA					
C _c	NA NA					

Soil Description:

Brown very gravelly silty/clayey SAND

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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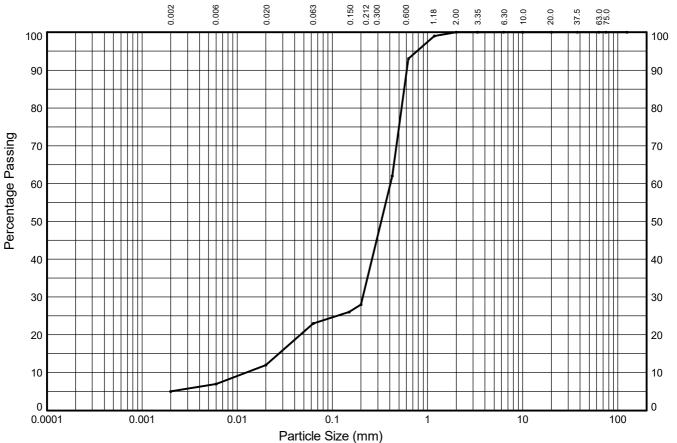
EMG Phase 2

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In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016 NON-STANDARD TEST

Borehole: BH15 Sample Ref: 24 Sample Type: B Depth (m): 6.00



	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	2%	5%	11%	5%	65%	7%	0%	0%	0%	COBBLES
	SILT			SAND		(GRAVEL	-		
5%	18%			77%			0%		0%	

Test Sieve (mm)	Percent Passing (%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 100 100 100 100 100 100 100 99 93 62 28 26 23

Particle Diameter (mm)	Percent Passing (%)				
0.02	12				
0.006	7				
0.002	5				
Sedimentation sample was not pre-treated					

Coeffi	cients
D ₁₀ (mm)	0.012
D ₁₅ (mm)	0.027
D ₃₀ (mm)	0.209
D ₅₀ (mm)	0.326
D ₆₀ (mm)	0.407
D ₈₅ (mm)	0.569
D ₉₀ (mm)	0.606
C _U	33
C _C	9

Soil Description:

Brown clayey silty SAND

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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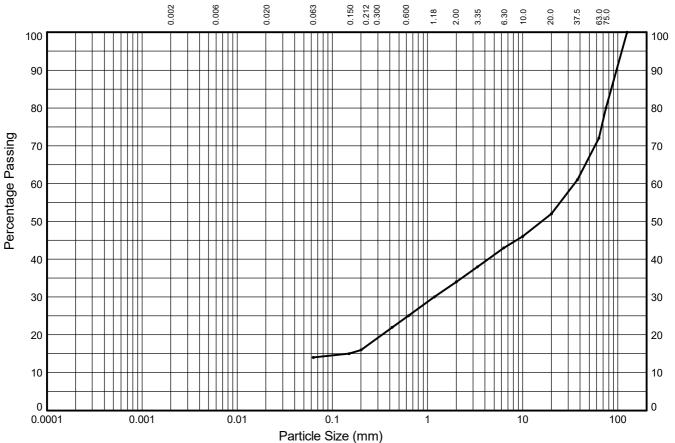
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EMG Phase 2



In accordance with clauses 5.2 of BS EN ISO 17892:Part 4:2016 NON-STANDARD TEST

Borehole: BH15 Sample Ref: 36 Sample Type: B Depth (m): 10.50



, ,										
	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	-	-	-	2%	9%	9%	9%	9%	20%	COBBLES
		SILT			SAND			GRAVEL	-	
14%			20%				38%		28%	

Test Sieve (mm)	Percent Passing (%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 80 72 61 52 46 43 38 34 30 25 22 16 15

Percent Passing (%)					
Sedimentation sample was not pre-treated					

Coefficients					
D ₁₀ (mm)	NA				
D ₁₅ (mm)	0.150				
D ₃₀ (mm)	1.180				
D ₅₀ (mm)	15.874				
D ₆₀ (mm)	34.970				
D ₈₅ (mm)	85.216				
D ₉₀ (mm)	96.825				
C _U	NA				
C_{c}	NA				
<u> </u>	<u> </u>				

Soil Description:

Red brown sandy silty/clayey GRAVEL with high cobble content

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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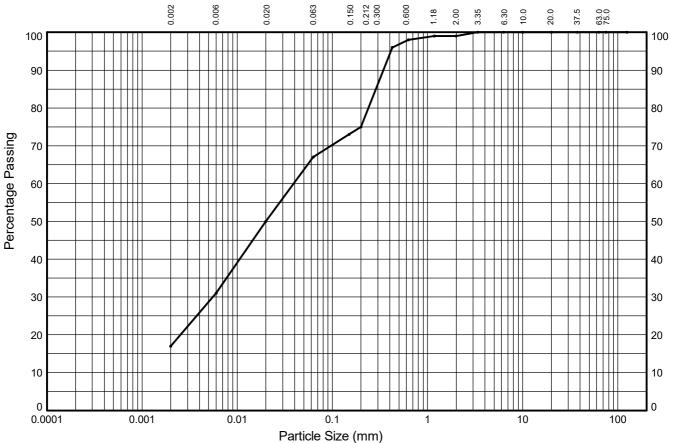
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In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Borehole: BH17 Sample Ref: 13 Sample Type: B Depth (m): 3.00



				•						
	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	14%	19%	17%	8%	23%	1%	1%	0%	0%	COBBLES
		SILT			SAND		(GRAVEL	-	
17%	50%		32%			1%		0%		

Test Sieve	Percent Passing
(mm)	(%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 100 100 100 100 100 100 100 99 99 98 96 75 73 67

Particle Diameter (mm)	Percent Passing (%)			
0.02	50			
0.006	31			
0.002	17			
Sedimentation sample was not pre-treated				

Coeffi	cients
D ₁₀ (mm)	NA
D ₁₅ (mm)	NA
D ₃₀ (mm)	0.006
D ₅₀ (mm)	0.020
D ₆₀ (mm)	0.039
D ₈₅ (mm)	0.286
D ₉₀ (mm)	0.343
C _U	NA
C _c	NA

Soil Description:

Brown slightly gravelly slightly sandy clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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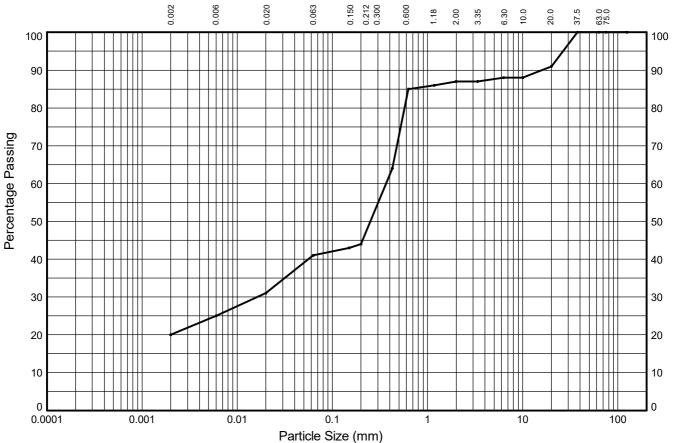
EMG Phase 2

765514

AGS

In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Borehole: **BH20** Sample Ref: **6** Sample Type: **B** Depth (m): **0.60**



 , ,										
	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	5%	6%	10%	3%	41%	2%	1%	3%	9%	COBBLES
	SILT		SAND			GRAVEL				
20%	21%			46%			13%			0%

Test Sieve (mm)	Percent Passing
(mm) 125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	(%) 100 100 100 100 91 88 88 87 87 86 85 64 44 43 41

Particle Diameter (mm)	Percent Passing (%)					
0.02	31					
0.006	25					
0.002	20					
Sedimentation sample was not pre-treated						

Coefficients					
D ₁₀ (mm)	NA				
D ₁₅ (mm)	NA				
D ₃₀ (mm)	0.016				
D ₅₀ (mm)	0.251				
D ₆₀ (mm)	0.366				
D ₈₅ (mm)	0.630				
D ₉₀ (mm)	15.874				
C _U	NA				
C _c	NA				

Soil Description:

Brown/red slightly gravelly sandy clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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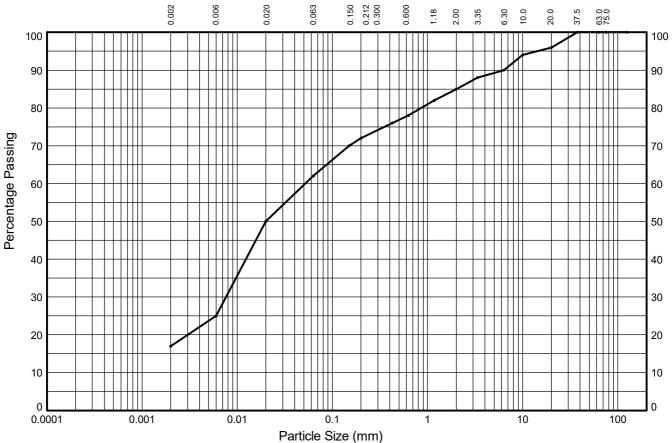
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AGS

In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Borehole: BH21 Sample Ref: 17 Sample Type: D Depth (m): 3.70



	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	9%	24%	12%	10%	6%	7%	5%	6%	4%	COBBLES
	SILT		SAND			(GRAVEL	_		
17%	45%				23%			15%		0%

Test Sieve (mm)	Percent Passing (%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 100 100 100 96 94 90 88 85 82 78 76 72 70

Particle Diameter (mm)	Percent Passing (%)					
0.02	50					
0.006	25					
0.002	17					
Sedimentation sample was not pre-treated						

Coeffi	Coefficients					
D ₁₀ (mm)	NA					
D ₁₅ (mm)	NA					
D ₃₀ (mm)	0.008					
D ₅₀ (mm)	0.020					
D ₆₀ (mm)	0.052					
D ₈₅ (mm)	2.000					
D ₉₀ (mm)	6.300					
C_U	NA					
C _C	NA					

Soil Description:

Brown slightly gravelly slightly sandy clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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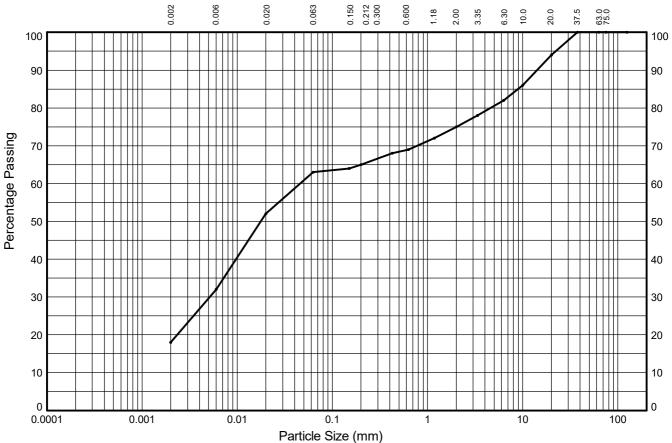
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EMG Phase 2



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Borehole: BH22 Sample Ref: 14 Sample Type: B Depth (m): 3.00



	`	,								
	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	14%	20%	11%	2%	4%	6%	7%	12%	6%	COBBLES
	SILT		SAND			(GRAVEL	_		
18%	45%			12%				25%		0%

Test Sieve (mm)	Percent Passing (%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 100 100 100 94 86 82 78 75 72 69 68 65 64

Particle Diameter (mm)	Percent Passing (%)			
0.02	52			
0.006	32			
0.002	18			
Sedimentation sample was not pre-treated				

Coefficients				
D ₁₀ (mm)	NA			
D ₁₅ (mm)	NA			
D ₃₀ (mm)	0.005			
D ₅₀ (mm)	0.018			
D ₆₀ (mm)	0.046			
D ₈₅ (mm)	8.909			
D ₉₀ (mm)	14.142			
C _U	NA			
C _c	NA			

Soil Description:

Brown slightly sandy slightly gravelly clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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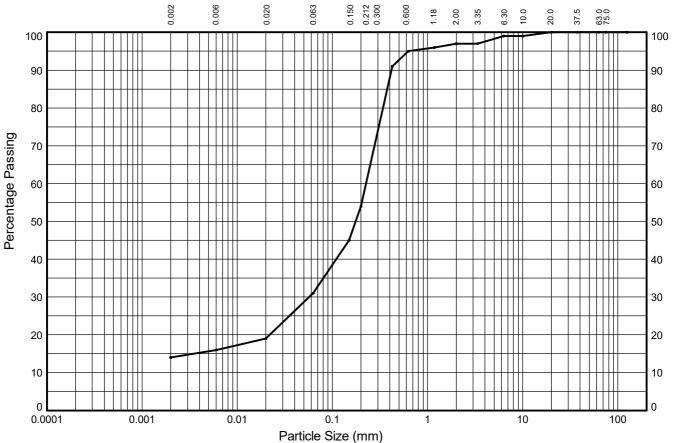
EMG Phase 2

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In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016 NON-STANDARD TEST

Borehole: BH25 Sample Ref: 13 Sample Type: B Depth (m): 1.20



				`	,					
	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	2%	3%	12%	23%	41%	2%	2%	1%	0%	COBBLES
	SILT		SAND		GRAVEL					
14%	17%		66%		3%			0%		

Test Sieve	Percent Passing
(111111)	(70)
(mm) 125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150	(%) 100 100 100 100 100 99 97 97 97 96 95 91 54 45
0.063	31
l .	

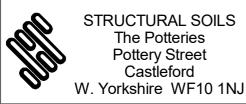
Particle Diameter (mm)	Percent Passing (%)			
0.02	19			
0.006	16			
0.002	14			
Sedimentation sample was not pre-treated				

Coefficients				
D ₁₀ (mm)	NA			
D ₁₅ (mm)	0.003			
D ₃₀ (mm)	0.057			
D ₅₀ (mm)	0.176			
D ₆₀ (mm)	0.226			
D ₈₅ (mm)	0.376			
D ₉₀ (mm)	0.416			
C _U	NA			
C_c	NA			

Soil Description:

Brown red slightly gravelly clayey silty SAND

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018

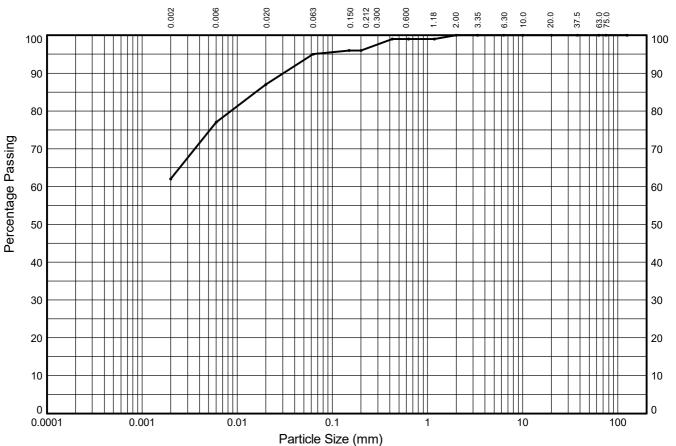


Compiled By				Date	
				LAURA SCHRAMM	27/02/23
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EMG Phase 2

In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Borehole: **BH26** Sample Ref: **3** Sample Type: **B** Depth (m): **0.10**



				`	,					
	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	15%	10%	8%	1%	3%	1%	0%	0%	0%	COBBLES
	SILT		SAND			GRAVEL	_			
62%	33%		5%			0%		0%		

Test Sieve (mm)	Percent Passing (%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 100 100 100 100 100 100 100 99 99 99 99

Particle Diameter (mm)	Percent Passing (%)				
0.02	87				
0.006	77				
0.002	62				
Sedimentation sample was not pre-treated					
pre-treated					

Coefficients					
D ₁₀ (mm)	NA				
D ₁₅ (mm)	NA				
D ₃₀ (mm)	NA				
D ₅₀ (mm)	NA				
D ₆₀ (mm)	NA				
D ₈₅ (mm)	0.016				
D ₉₀ (mm)	0.031				
C _U	NA				
C_{C}	NA				

Soil Description:

Brown slightly sandy silty CLAY

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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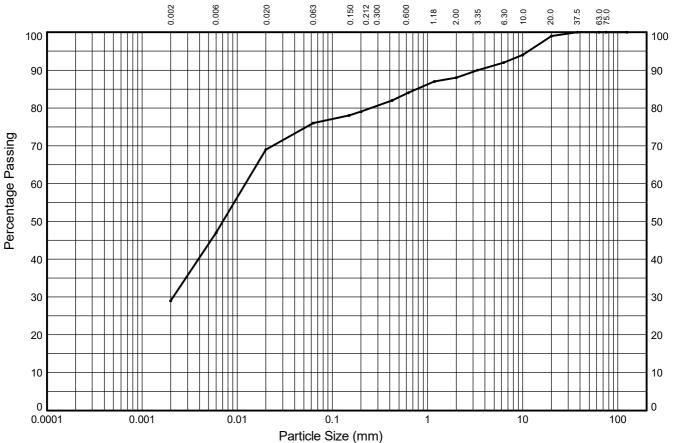
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EMG Phase 2



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Position ID: CP03 Sample Ref: 16 Sample Type: B Depth (m): 3.00



	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	18%	22%	7%	3%	5%	4%	4%	7%	1%	COBBLES
	SILT		SAND			GRAVEL				
29%	47%		12%			12%			0%	

Test Sieve (mm)	Percent Passing (%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 100 100 100 99 94 92 90 88 87 84 82 79 78

)			
,			
)			
Sedimentation sample was not pre-treated			
3			

Coefficients					
D ₁₀ (mm)	NA				
D ₁₅ (mm)	NA				
D ₃₀ (mm)	0.002				
D ₅₀ (mm)	0.007				
D ₆₀ (mm)	0.012				
D ₈₅ (mm)	0.777				
D ₉₀ (mm)	3.350				
C _U	NA				
C _c	NA				

Soil Description:

Brown slightly gravelly slightly sandy clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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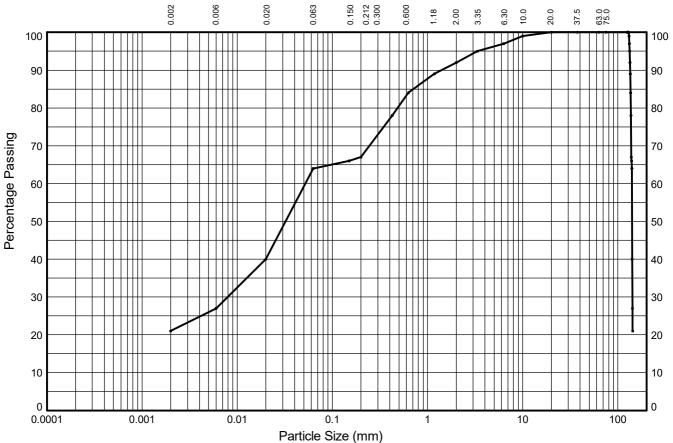
EMG Phase 2

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In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Position ID: CP04 Sample Ref: 54 Sample Type: B Depth (m): 16.50



	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	6%	13%	24%	3%	17%	8%	5%	3%	0%	COBBLES
		SILT			SAND		(GRAVEL	_	
21%	43%			28%			8%		0%	

Test Sieve (mm)	Percent Passing (%)
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	99
6.30	97
3.35	95
2.00	92
1.18	89
0.630	84
0.425	78
0.200	67
0.150	66
0.063	64

Particle Diameter (mm)	Percent Passing (%)					
0.02	40					
0.006	27					
0.002	21					
Sedimentation sample was not pre-treated						
	·					

Coeffi	cients
D ₁₀ (mm)	NA
D ₁₅ (mm)	NA
D ₃₀ (mm)	0.008
D ₅₀ (mm)	0.032
D ₆₀ (mm)	0.052
D ₈₅ (mm)	0.714
D ₉₀ (mm)	1.407
C _U	NA
C _c	NA
<u> </u>	<u> </u>

Soil Description:

Brown slightly gravelly slightly sandy clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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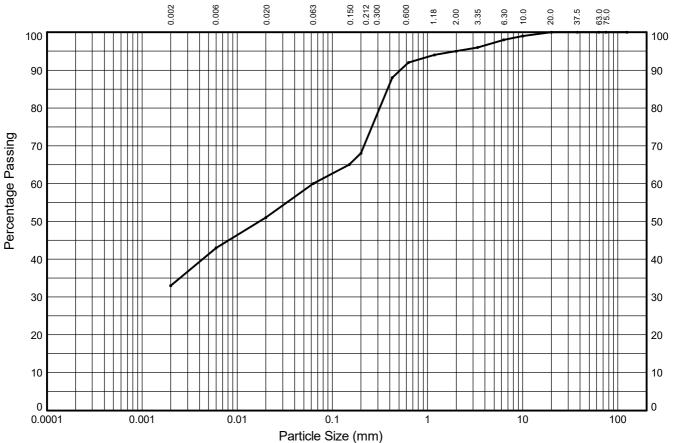
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EMG Phase 2



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Position ID: CP05 Sample Ref: 3 Sample Type: B Depth (m): 0.50



	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	10%	8%	9%	8%	24%	3%	3%	2%	0%	COBBLES
		SILT			SAND		(GRAVEL	_	
33%	27%			35%		35% 5%			0%	

Test Sieve (mm)	Percent Passing (%)
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	99
6.30	98
3.35	96
2.00	95
1.18	94
0.630	92
0.425	88
0.200	68
0.150	65
0.063	60

Percent Passing (%)						
51						
43						
33						
Sedimentation sample was not pre-treated						

Coefficients						
D ₁₀ (mm)	NA					
D ₁₅ (mm)	NA					
D ₃₀ (mm)	NA					
D ₅₀ (mm)	0.017					
D ₆₀ (mm)	0.063					
D ₈₅ (mm)	0.380					
D ₉₀ (mm)	0.517					
C _U	NA					
C _c	NA					

Soil Description:

Brown red slightly gravelly sandy silty CLAY

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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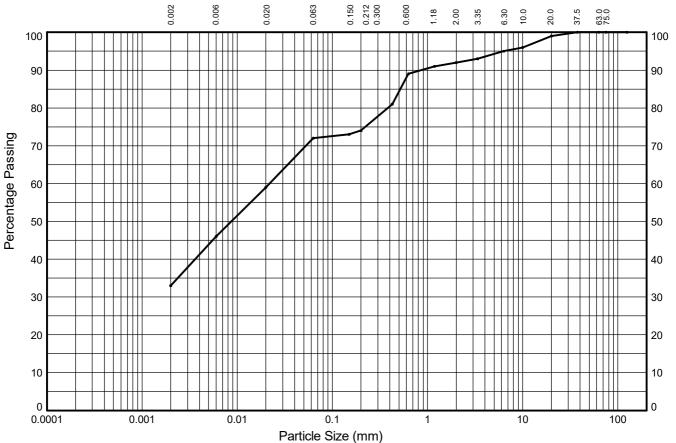
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In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Position ID: CP07 Sample Ref: 10 Sample Type: B Depth (m): 2.50



				`	,					
	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	13%	13%	13%	2%	15%	3%	3%	4%	1%	COBBLES
		SILT			SAND		(GRAVEL	_	
33%	39%			20%			8%		0%	

Test Sieve	Percent Passing (%)
(111111)	(70)
(mm) 125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150	100 100 100 100 99 96 95 93 92 91 89 81 74
0.063	72

Particle Diameter (mm)	Percent Passing (%)				
0.02	59				
0.006	46				
0.002	33				
Sedimentation sample was not pre-treated					

Coefficients					
D ₁₀ (mm)	NA				
D ₁₅ (mm)	NA				
D ₃₀ (mm)	NA				
D ₅₀ (mm)	0.009				
D ₆₀ (mm)	0.022				
D ₈₅ (mm)	0.517				
D ₉₀ (mm)	0.862				
C _U	NA				
C _c	NA				

Soil Description:

Brown slightly gravelly slightly sandy clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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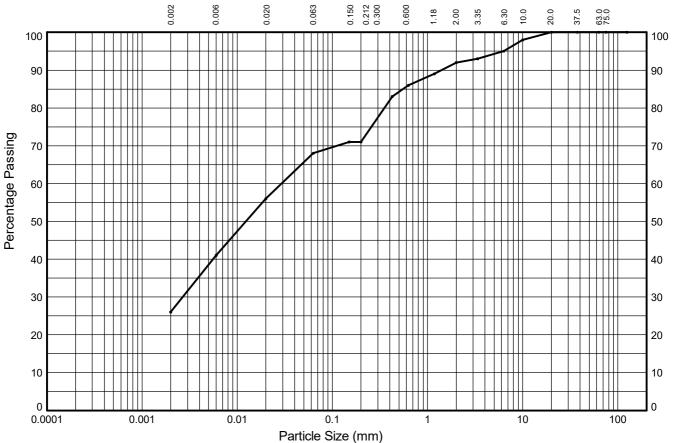
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EMG Phase 2

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In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Position ID: CP07 Sample Ref: 17 Sample Type: B Depth (m): 4.50



				`	,					
	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	15%	15%	12%	3%	15%	6%	3%	5%	0%	COBBLES
	SILT		SILT SAND				(GRAVEL	_	
26%	42%		% 24%			8%		0%		

Test Sieve	Percent Passing
(111111)	(70)
(mm) 125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150	(%) 100 100 100 100 100 98 95 93 92 89 86 83 71 71
0.200	71

Particle Diameter (mm)	Percent Passing (%)				
0.02	56				
0.006	41				
0.002	26				
Sedimentation sample was not pre-treated					

Coefficients					
D ₁₀ (mm)	NA				
D ₁₅ (mm)	NA				
D ₃₀ (mm)	0.003				
D ₅₀ (mm)	0.012				
D ₆₀ (mm)	0.029				
D ₈₅ (mm)	0.553				
D ₉₀ (mm)	1.407				
C _U	NA				
C _c	NA				

Soil Description:

Brown slightly gravelly slightly sandy clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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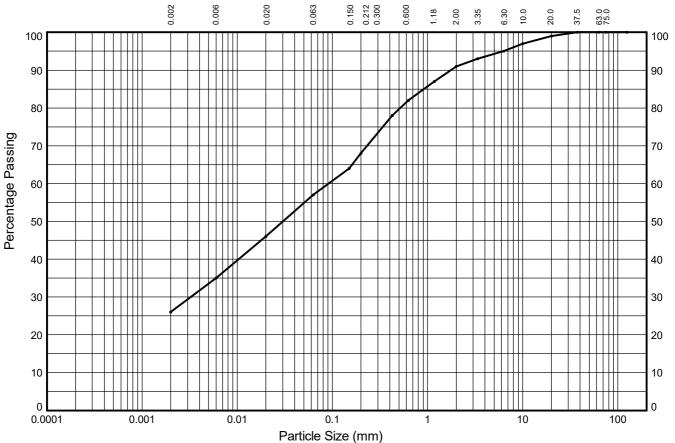
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		LORNA WHITWORTH	27/02/23
Contract		Contract Ref:	

EMG Phase 2

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In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Position ID: CP08 Sample Ref: 19 Sample Type: B Depth (m): 4.00



				`	,					
	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	9%	11%	11%	11%	14%	9%	4%	4%	1%	COBBLES
	SILT		SILT SAND				(GRAVEL	_	
26%	31%		31% 34% 9%					9%		0%

Test Sieve (mm)	Percent Passing (%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 100 100 100 99 97 95 93 91 87 82 78 68 64

Particle Diameter (mm)	Percent Passing (%)			
0.02	46			
0.006	35			
0.002	26			
Sedimentation sample was not pre-treated				

Coefficients					
D ₁₀ (mm)	NA				
D ₁₅ (mm)	NA				
D ₃₀ (mm)	0.003				
D ₅₀ (mm)	0.030				
D ₆₀ (mm)	0.091				
D ₈₅ (mm)	0.918				
D ₉₀ (mm)	1.753				
C _U	NA				
C_c^c	NA				

Soil Description:

Brown slightly gravelly slightly sandy clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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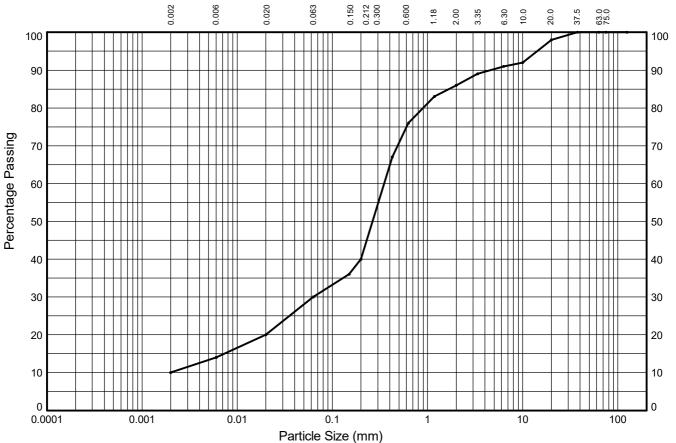
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EMG Phase 2



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Position ID: CP08 Sample Ref: 30 Sample Type: B Depth (m): 7.50



				`	,					
	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	4%	6%	10%	10%	36%	10%	5%	7%	2%	COBBLES
		SILT			SAND			GRAVEL	_	
10%	20%		56%				14%		0%	

Test Sieve (mm)	Percent Passing (%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 100 100 98 92 91 89 86 83 76 67 40 36 30

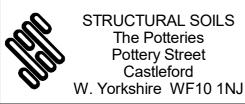
Particle Diameter	Percent Passing
(mm)	(%)
0.02	20
0.02	20
0.006	14
0.000	40
0.002	10
Sedimentation	sample was not
	eated

Coeffi	cients
D ₁₀ (mm)	0.002
D ₁₅ (mm)	0.007
D ₃₀ (mm)	0.063
D ₅₀ (mm)	0.264
D ₆₀ (mm)	0.350
D ₈₅ (mm)	1.677
D ₉₀ (mm)	4.594
C _U	175
C _C	6

Soil Description:

Brown red gravelly clayey silty SAND

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



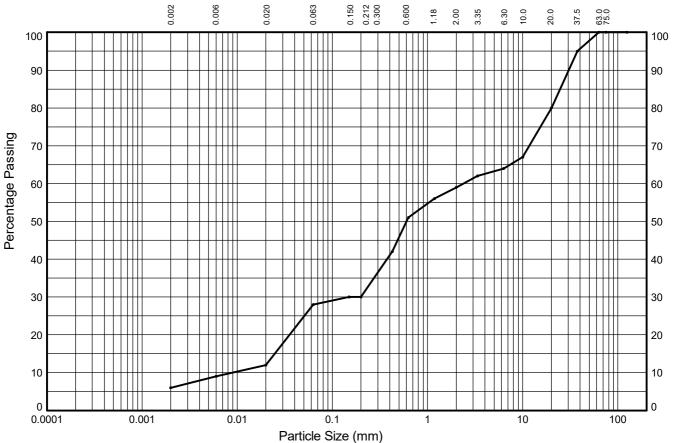
Compiled By					
	ı	LORNA WHITWORTH	27/02/23		
Contract		Contract Ref:			

EMG Phase 2



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016 NON-STANDARD TEST

Position ID: CP08 Sample Ref: 35 Sample Type: B Depth (m): 9.00



	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	3%	3%	16%	2%	21%	8%	5%	16%	20%	COBBLES
		SILT			SAND		(GRAVEL	-	
6%		22%		31%				41%		0%

Test Sieve (mm)	Percent Passing (%)
125.0	100
75.0	100
63.0	100
37.5	95
20.0	80
10.0	67
6.30	64
3.35	62
2.00	59
1.18	56
0.630	51
0.425	42
0.200	30
0.150	30
0.063	28

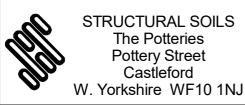
12
9
6
sample was not eated

Coefficients							
D ₁₀ (mm)	0.009						
D ₁₅ (mm)	0.025						
D ₃₀ (mm)	0.150						
D ₅₀ (mm)	0.603						
D ₆₀ (mm)	2.375						
D ₈₅ (mm)	24.662						
D ₉₀ (mm)	30.411						
C _U	265						
C _C	1						

Soil Description:

Brown very sandy clayey very silty GRAVEL

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018

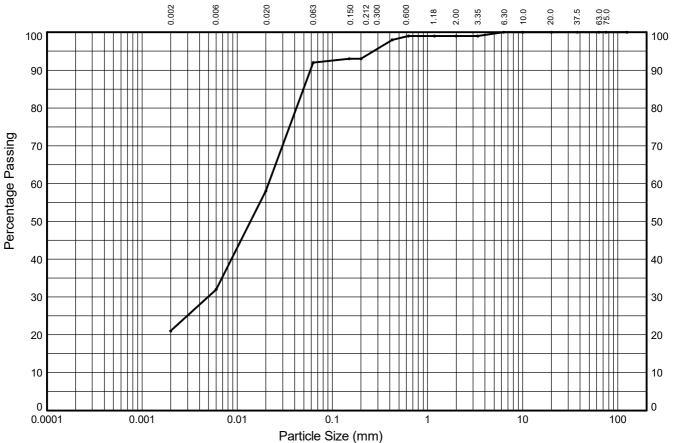


	Comp	iled By		Date
			LAURA SCHRAMM	27/02/23
Contract			Contract Ref:	

EMG Phase 2

In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Position ID: CP09 Sample Ref: 14 Sample Type: B Depth (m): 4.00



				`	,					
	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	12%	25%	34%	1%	6%	0%	1%	0%	0%	COBBLES
		SILT			SAND			GRAVEL	-	
21%	71%		7%				1%		0%	

Test Sieve	Percent Passing
(mm)	(%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 100 100 100 100 100 100 99 99 99 99 99 99

Particle Diameter (mm)	Percent Passing (%)				
0.02	58				
0.006	32				
0.002	21				
Sedimentation sample was not pre-treated					

Coefficients						
D ₁₀ (mm)	NA					
D ₁₅ (mm)	NA					
D ₃₀ (mm)	0.005					
D ₅₀ (mm)	0.014					
D ₆₀ (mm)	0.021					
D ₈₅ (mm)	0.050					
D ₉₀ (mm)	0.059					
C _U	NA					
C _c	NA					

Soil Description:

Brown/red slightly gravelly slightly sandy clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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	LORNA WHITWORTH	27/02/23		
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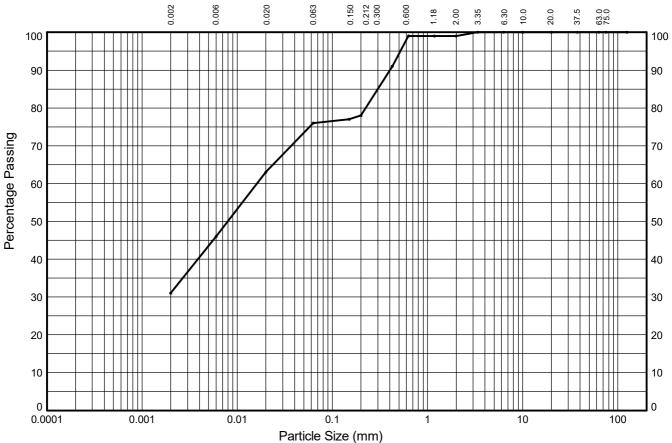
Contract F

EMG Phase 2



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Position ID: CP11 Sample Ref: 6 Sample Type: B Depth (m): 1.20



	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	15%	17%	13%	2%	21%	0%	1%	0%	0%	COBBLES
		SILT			SAND		(GRAVEL	_	
31%	45%		6 45% 23% 1%			23%		0%		

Test Sieve (mm)	Percent Passing (%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 100 100 100 100 100 100 99 99 99 91 78 77

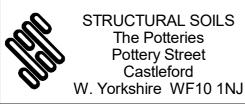
Particle Diameter (mm)	Percent Passing (%)				
0.02	63				
0.006	46				
0.002	31				
Sedimentation sample was not pre-treated					

Coefficients						
D ₁₀ (mm)	NA					
D ₁₅ (mm)	NA					
D ₃₀ (mm)	NA					
D ₅₀ (mm)	0.008					
D ₆₀ (mm)	0.016					
D ₈₅ (mm)	0.300					
D ₉₀ (mm)	0.401					
C _U	NA					
C _C	NA					

Soil Description:

Brown/red slightly gravelly slightly sandy clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



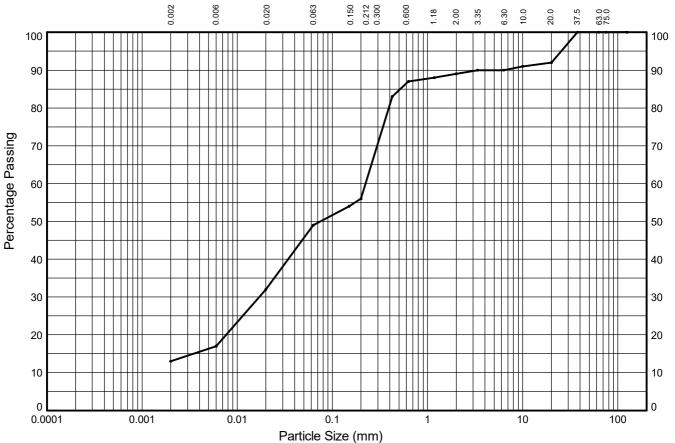
Compiled By						
			LAURA SCHRAMM			
Contract				Contract Ref:	•	

EMG Phase 2



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Position ID: CP13 Sample Ref: 4 Sample Type: B Depth (m): 0.60



				`	,					
	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	4%	15%	17%	7%	31%	2%	1%	2%	8%	COBBLES
		SILT			SAND			GRAVEL	-	
13%	36%					11%		0%		

Test Sieve	Percent Passing
(111111)	(70)
(mm) 125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150	(%) 100 100 100 100 92 91 90 90 89 88 87 83 56 54
0.063	49

Particle Diameter (mm)	Percent Passing (%)				
0.02	32				
0.006	17				
0.002	13				
Sedimentation sample was not pre-treated					
pre-tro	eated				

Coeffi	cients
D ₁₀ (mm)	NA
D ₁₅ (mm)	0.003
D ₃₀ (mm)	0.017
D ₅₀ (mm)	0.075
D ₆₀ (mm)	0.224
D ₈₅ (mm)	0.517
D ₉₀ (mm)	3.350
C _U	NA
C _c	NA

Soil Description:

Brown red slightly gravelly sandy clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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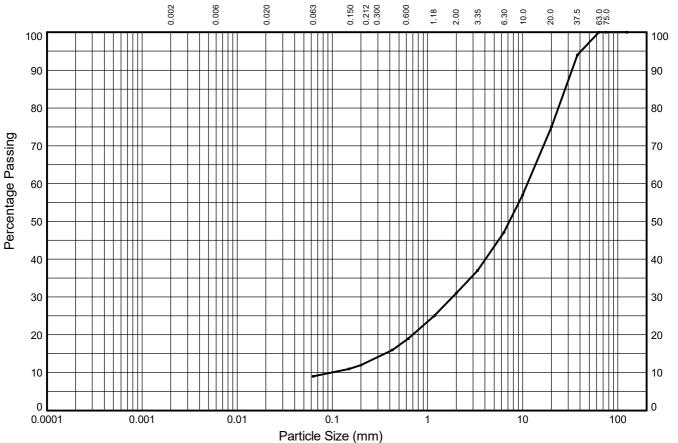
Compiled By			Date
		LORNA WHITWORTH	
Contract		Contract Ref:	

EMG Phase 2

765514

In accordance with clauses 5.2 of BS EN ISO 17892:Part 4:2016 NON-STANDARD TEST

Position ID: CP13 Sample Ref: 19 Sample Type: B Depth (m): 4.50



	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	-	-	-	3%	7%	12%	16%	28%	25%	COBBLES
		SILT			SAND			GRAVEL	_	
(9%				22%	_		69%		0%

Test Sieve (mm)	Percent Passing (%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150	100 100 100 94 75 57 47 37 31 25 19 16 12
0.063	9

Particle Diameter (mm)	Percent Passing (%)
	sample was not eated

Coefficients							
D ₁₀ (mm)	0.097						
D ₁₅ (mm)	0.352						
D ₃₀ (mm)	1.832						
D ₅₀ (mm)	7.237						
D ₆₀ (mm)	11.225						
D ₈₅ (mm)	27.843						
D ₉₀ (mm)	32.852						
C _U	115						
C_{c}	3						

Soil Description:

Brown sandy silty/clayey GRAVEL

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



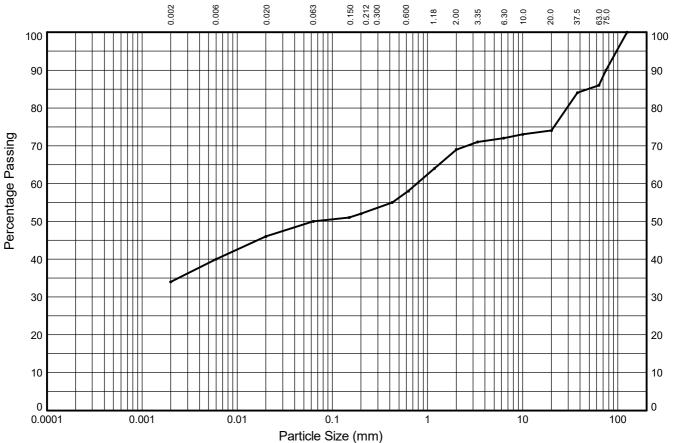
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	Comp	iled By		Date
			LAURA SCHRAMM	27/02/23
Contract			Contract Ref:	

EMG Phase 2

In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Position ID: CP14 Sample Ref: 18 Sample Type: B Depth (m): 6.40



				`	,					
	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	6%	6%	4%	2%	6%	11%	3%	2%	12%	COBBLES
		SILT			SAND		(GRAVEL	_	
34%		16%			19%			17%		14%

Test Sieve (mm)	Percent Passing (%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 90 86 84 74 73 72 71 69 64 58 55 52 51

Particle Diameter (mm)	Percent Passing (%)				
0.02	46				
0.006	40				
0.002	34				
Sedimentation sample was not pre-treated					

Coefficients				
D ₁₀ (mm)	NA			
D ₁₅ (mm)	NA			
D ₃₀ (mm)	NA			
D ₅₀ (mm)	0.063			
D ₆₀ (mm)	0.777			
D ₈₅ (mm)	48.606			
D ₉₀ (mm)	75.000			
C _U	NA			
C _C	NA			

Soil Description:

Brown slightly gravelly slightly sandy silty CLAY with medium cobble content

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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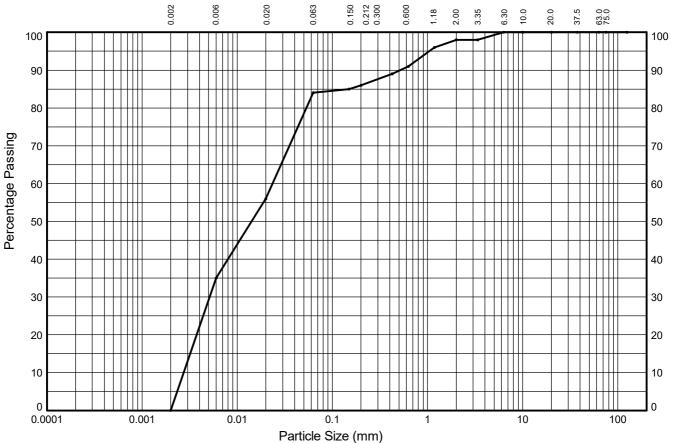
Compiled By			
	LORNA WHITWORTH	27/02/23	
Contract	Contract Ref:		

EMG Phase 2

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In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Position ID: CP15 Sample Ref: 11 Sample Type: B Depth (m): 3.00



				`	,					
	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	35%	21%	28%	2%	5%	7%	2%	0%	0%	COBBLES
	SILT			SAND		(GRAVEL	_		
0%	84%		14%			2%		0%		

Test Sieve (mm)	Percent Passing (%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 100 100 100 100 100 98 98 98 96 91 89 86 85

Particle Diameter (mm)	Percent Passing (%)						
0.02	56						
0.006	35						
0.002	0						
Sedimentation sample was not pre-treated							

Coefficients						
D ₁₀ (mm)	0.003					
D ₁₅ (mm)	0.003					
D ₃₀ (mm)	0.005					
D ₅₀ (mm)	0.014					
D ₆₀ (mm)	0.024					
D ₈₅ (mm)	0.150					
D ₉₀ (mm)	0.517					
C _U	8.6					
C _c	0.41					

Soil Description:

Brown/red slightly gravelly slightly sandy SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



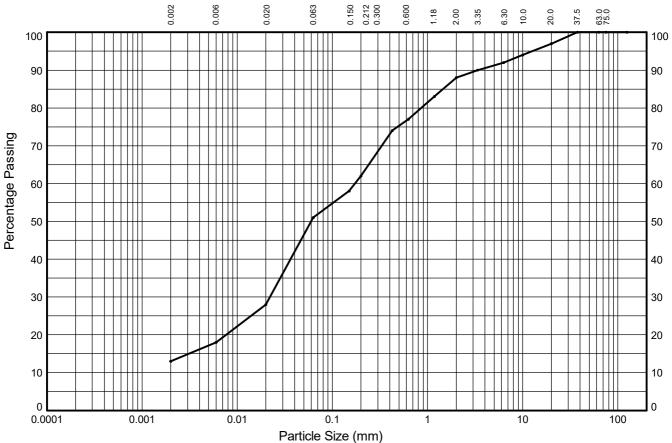
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Compiled By				
	LORNA WHITWORTH	27/02/23		
Cont	Contract Ref:			

EMG Phase 2

In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Position ID: CP17 Sample Ref: 22 Sample Type: B Depth (m): 6.00



				`	,					
	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	5%	10%	23%	11%	15%	11%	4%	5%	3%	COBBLES
	SILT		SAND		(GRAVEL	_			
13%	38%		38% 37% 12%			37%		0%		

Test Sieve (mm)	Percent Passing (%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 100 100 100 97 94 92 90 88 83 77 74 62 58

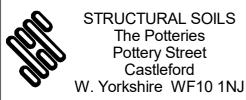
Particle Diameter (mm)	Percent Passing (%)						
0.02	28						
0.006	18						
0.002	13						
Sedimentation sample was not pre-treated							

Coefficients						
D ₁₀ (mm)	NA					
D ₁₅ (mm)	0.003					
D ₃₀ (mm)	0.022					
D ₅₀ (mm)	0.060					
D ₆₀ (mm)	0.173					
D ₈₅ (mm)	1.457					
D ₉₀ (mm)	3.350					
C _U	NA					
C _c	NA					

Soil Description:

Brown slightly gravelly slightly sandy clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



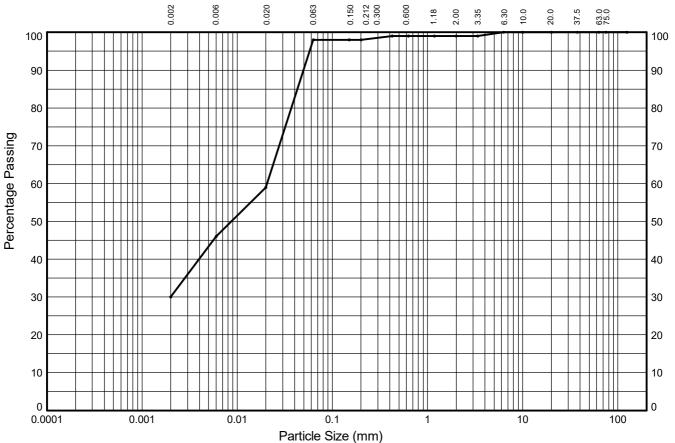
Compiled By			
	ı	LORNA WHITWORTH	27/02/23
Contract		Contract Ref:	

EMG Phase 2

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In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Position ID: CP18 Sample Ref: 4 Sample Type: В Depth (m): 0.90



					,					
	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	16%	13%	39%	0%	1%	0%	1%	0%	0%	COBBLES
	SILT		SAND			GRAVEL	_			
30%	68%		1%		1%			0%		

Test Sieve (mm)	Percent Passing (%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 100 100 100 100 100 100 99 99 99 99 99 99

Particle Diameter (mm)	Percent Passing (%)
0.02	59
0.006	46
0.002	30
Sedimentation s	

Coefficients			
D ₁₀ (mm)	NA		
D ₁₅ (mm)	NA		
D ₃₀ (mm)	0.002		
D ₅₀ (mm)	0.009		
D ₆₀ (mm)	0.021		
D ₈₅ (mm)	0.043		
D ₉₀ (mm)	0.050		
C _U	NA		
C _C	NA		

Soil Description:

Brown slightly gravelly slightly sandy clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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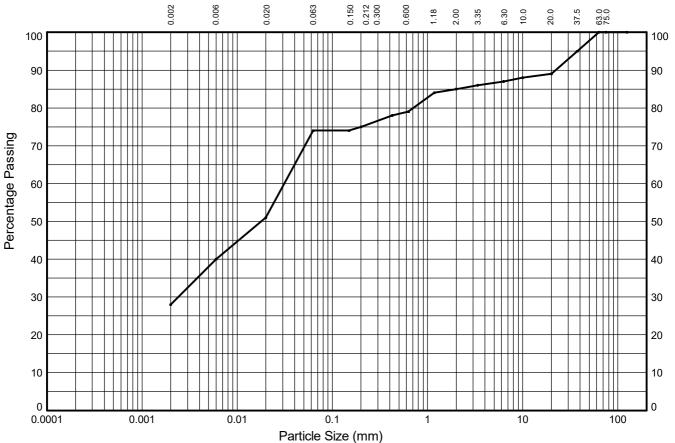
Contract Ref:

EMG Phase 2



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Position ID: CP22 Sample Ref: 4 Sample Type: B Depth (m): 0.50



				`	,					
	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	12%	11%	23%	1%	4%	6%	2%	2%	11%	COBBLES
		SILT			SAND		(GRAVEL	_	
28%		46%	·		11%			15%		0%

Test Sieve	Percent Passing
(mm)	(%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 100 100 95 89 88 87 86 85 84 79 78 75 74

Particle Diameter (mm)	Percent Passing (%)
0.02	51
0.006	40
0.002	28
Sedimentation : pre-tr	

Coeffi	cients
D ₁₀ (mm)	NA
D ₁₅ (mm)	NA
D ₃₀ (mm)	0.002
D ₅₀ (mm)	0.018
D ₆₀ (mm)	0.031
D ₈₅ (mm)	2.000
D ₉₀ (mm)	22.209
C _U	NA
C _c	NA

Soil Description:

Brown slightly sandy slightly gravelly clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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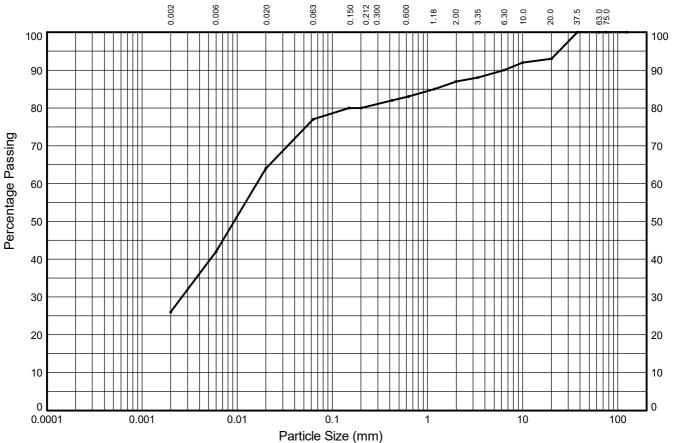
Comp	ed By		Date
	LORNA WI	HITWORTH	27/02/23
Contract	Contract F	Ref:	

EMG Phase 2

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In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Position ID: CP24 Sample Ref: 5 Sample Type: B Depth (m): 1.00



				`						
	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	16%	22%	13%	3%	3%	4%	3%	3%	7%	COBBLES
		SILT			SAND			GRAVEL	_	
26%		51%	·		10%			13%		0%

Test Sieve (mm)	Percent Passing (%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 100 100 100 93 92 90 88 87 85 83 82 80 80

Particle Diameter (mm)	Percent Passing (%)
0.02	64
0.006	42
0.002	26
Sedimentation : pre-tr	sample was not eated

NA
NA
0.003
0.009
0.016
1.180
6.300
NA
NA

Soil Description:

Brown red slightly sandy slightly gravelly clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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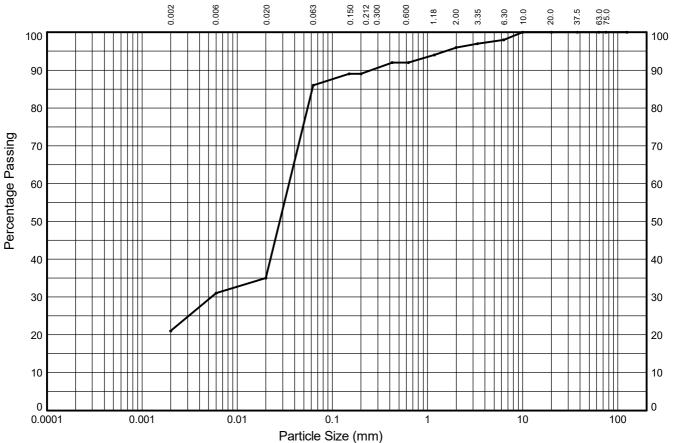
	Compiled By				
				LAURA SCHRAMM	27/02/23
Contract				Contract Ref:	

EMG Phase 2

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In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Trial Pit: TP02 Sample Ref: 7 Sample Type: D Depth (m): 0.70



	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	10%	4%	51%	3%	3%	4%	2%	2%	0%	COBBLES
	SILT			SAND			GRAVEL			
21%	65%			10%			4%			0%

Test Sieve (mm)	Percent Passing (%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 100 100 100 100 98 97 96 94 92 92 89 89

Particle Diameter (mm)	Percent Passing (%)					
0.02	35					
0.006	31					
0.002	21					
Sedimentation sample was not pre-treated						

Coeffic	cients
D ₁₀ (mm)	NA
D ₁₅ (mm)	NA
D ₃₀ (mm)	0.005
D ₅₀ (mm)	0.028
D ₆₀ (mm)	0.035
D ₈₅ (mm)	0.062
D ₉₀ (mm)	0.257
C _U	NA
C _c	NA

Soil Description:

Red brown slightly gravelly slightly sandy slightly clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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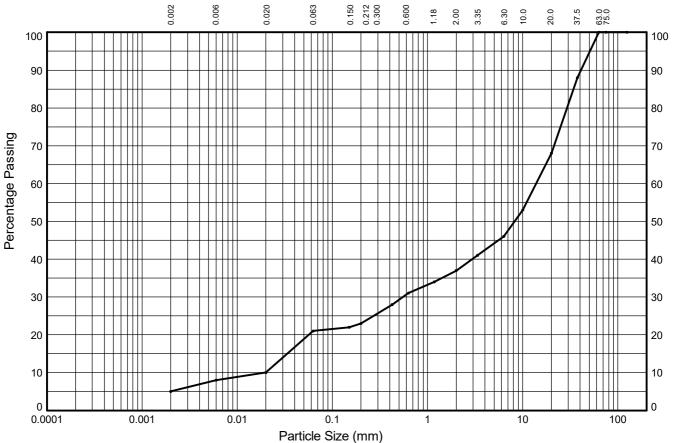
Compiled By				
		LORNA WHITWORTH	27/02/23	
Contract		Contract Ref:	<u> </u>	

EMG Phase 2

765514

In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016 NON-STANDARD TEST

Trial Pit: TP06 Sample Ref: 14 Sample Type: B Depth (m): 2.10



	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	3%	2%	11%	2%	8%	6%	9%	22%	32%	COBBLES
	SILT			SAND			GRAVEL			
5%	16%			16%			63%			0%

Test Sieve (mm)	Percent Passing (%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 100 100 88 68 53 46 41 37 34 31 28 23 22 21

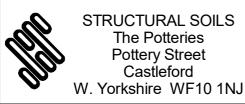
Particle Diameter (mm)	Percent Passing (%)				
0.02	10				
0.006	8				
0.002	5				
Sedimentation sample was not pre-treated					

Coeffi	cients
D ₁₀ (mm)	0.020
D ₁₅ (mm)	0.034
D ₃₀ (mm)	0.553
D ₅₀ (mm)	8.204
D ₆₀ (mm)	13.819
D ₈₅ (mm)	34.126
D ₉₀ (mm)	40.887
C _U	691
C _C	1

Soil Description:

Brown sandy clayey silty GRAVEL

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



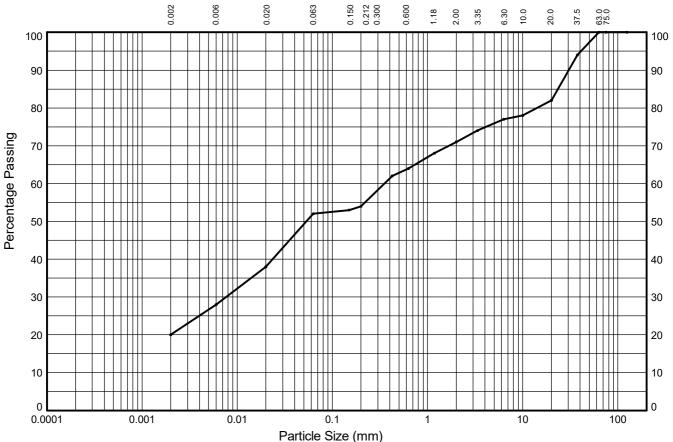
	Compiled By					
				LAURA SCHRAMM	27/02/23	
Contract		J		Contract Ref:		

EMG Phase 2



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Trial Pit: TP08 Sample Ref: 5 Sample Type: LB Depth (m): 0.50



					,					
	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	8%	10%	14%	2%	10%	7%	6%	5%	18%	COBBLES
	SILT			SAND			GRAVEL			
20%	32%			19%				29%		0%

Test Sieve (mm)	Percent Passing (%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 100 100 94 82 78 77 74 71 68 64 62 54 53

Particle Diameter (mm)	Percent Passing (%)				
0.02	38				
0.006	28				
0.002	20				
Sedimentation sample was not pre-treated					

Coefficients					
D ₁₀ (mm)	NA				
D ₁₅ (mm)	NA				
D ₃₀ (mm)	0.008				
D ₅₀ (mm)	0.053				
D ₆₀ (mm)	0.352				
D ₈₅ (mm)	23.403				
D ₉₀ (mm)	30.411				
C _U	NA				
C_c	NA				

Soil Description:

Brown slightly sandy slightly gravelly clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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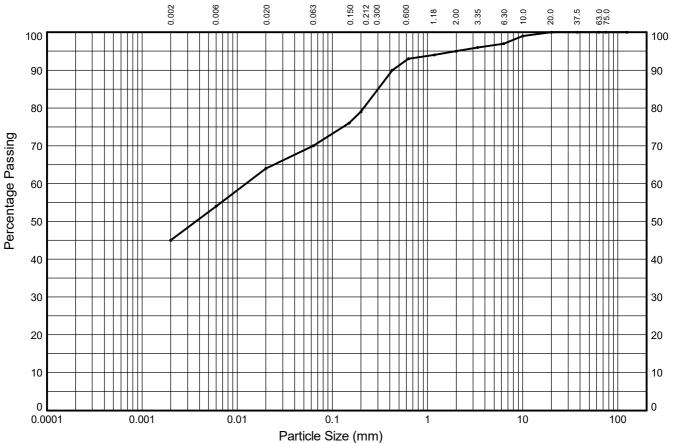
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EMG Phase 2 765514



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Trial Pit: TP09 Sample Ref: 5 Sample Type: LB Depth (m): 0.60



	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	9%	10%	6%	9%	14%	2%	2%	3%	0%	COBBLES
		SILT			SAND		(GRAVEL	_	
45%	25%			25%			5%		0%	

Test Sieve (mm)	Percent Passing (%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 100 100 100 100 99 97 96 95 94 93 90 79 76

Percent Passing (%)					
64					
54					
45					
Sedimentation sample was not pre-treated					

Coefficients						
D ₁₀ (mm)	NA					
D ₁₅ (mm)	NA					
D ₃₀ (mm)	NA					
D ₅₀ (mm)	0.004					
D ₆₀ (mm)	0.012					
D ₈₅ (mm)	0.302					
D ₉₀ (mm)	0.425					
C _U	NA					
C _c	NA					

Soil Description:

Brown slightly gravelly slightly sandy silty CLAY

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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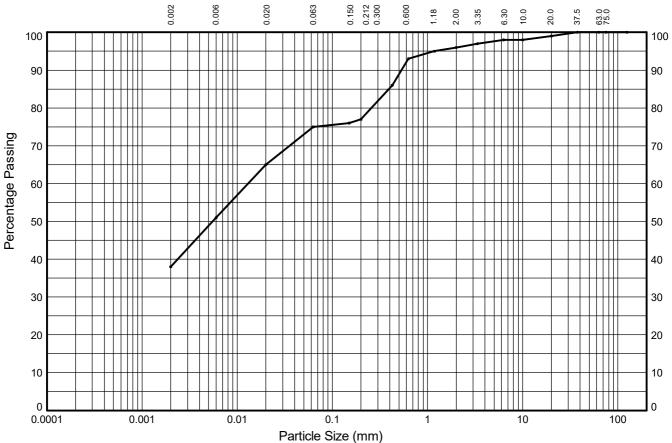
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	Compiled By						
	LAURA SCHRAMM						
	Contract	Contract Ref:					

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In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Trial Pit: TP10 11 Sample Ref: Sample Type: LB Depth (m): 1.40



					,					
	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	13%	14%	10%	2%	16%	3%	2%	1%	1%	COBBLES
		SILT			SAND		(GRAVEL	_	
38%	37%			21%			4%		0%	

Test Sieve (mm)	Percent Passing (%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 100 100 100 99 98 98 97 96 95 93 86 77 76 75

Particle Diameter (mm)	Percent Passing (%)				
0.02	65				
0.006	51				
0.002	38				
Sedimentation sample was not pre-treated					

Coeff	ficients
D ₁₀ (mm)	NA
D ₁₅ (mm)	NA
D ₃₀ (mm)	NA
D ₅₀ (mm)	0.006
D ₆₀ (mm)	0.013
D ₈₅ (mm)	0.391
D ₉₀ (mm)	0.532
C_{\cup}	NA
C_c^c	NA
<u> </u>	<u> </u>

Soil Description:

Brown slightly gravelly slightly sandy silty CLAY

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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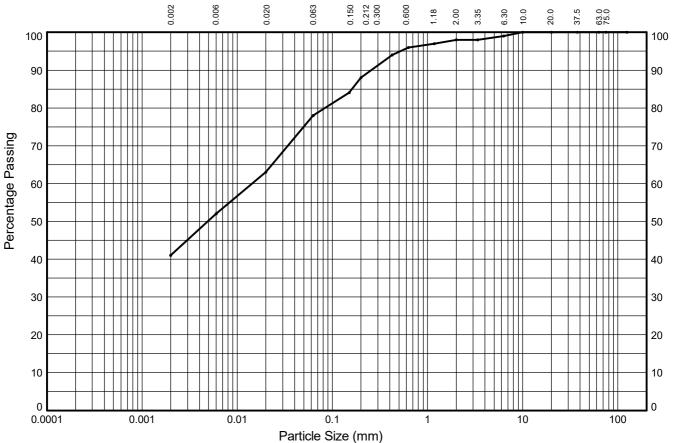
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In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Trial Pit: TP11 Sample Ref: 8 Sample Type: B Depth (m): 1.20



	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	11%	11%	15%	10%	8%	2%	1%	1%	0%	COBBLES
		SILT			SAND		(GRAVEL	_	
41%	37%		20%			2%		0%		

Test Sieve (mm)	Percent Passing (%)
125.0	100
75.0	100
63.0 37.5	100 100
20.0	100
10.0 6.30	100 99
3.35	98
2.00 1.18	98 97
0.630	96
0.425 0.200	94 88
0.150	84
0.063	78

Particle Diameter (mm)	Percent Passing (%)					
0.02	63					
0.006	52					
0.002	41					
Sedimentation sample was not pre-treated						

Coeffi	cients
D ₁₀ (mm)	NA
D ₁₅ (mm)	NA
D ₃₀ (mm)	NA
D ₅₀ (mm)	0.005
D ₆₀ (mm)	0.014
D ₈₅ (mm)	0.161
D ₉₀ (mm)	0.257
C _U	NA
C _c	NA

Soil Description:

Brown slightly gravelly slightly sandy silty CLAY

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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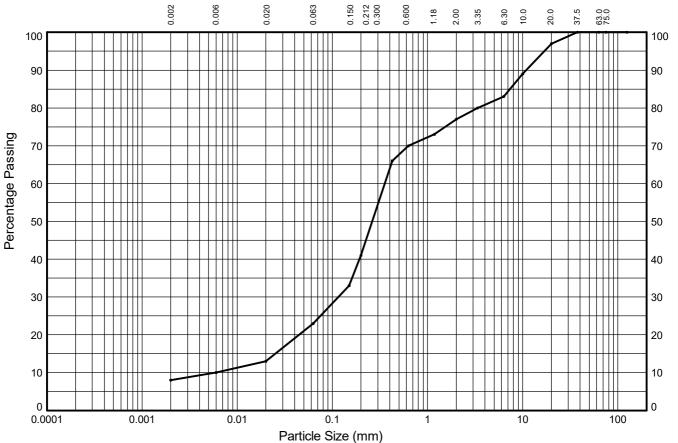
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	LORNA WHITWORTH	27/02/23	
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EMG Phase 2



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016 NON-STANDARD TEST

Trial Pit: TP13 Sample Ref: 5 Sample Type: D Depth (m): 1.00



				`	,					
	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	2%	3%	10%	18%	29%	7%	6%	14%	3%	COBBLES
		SILT			SAND			GRAVEL	_	
8%	15%		54%		54% 23%				0%	

Test Sieve (mm)	Percent Passing (%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 100 100 97 89 83 80 77 73 70 66 41 33 23

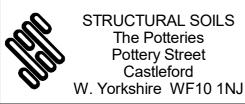
Particle Diameter (mm)	Percent Passing (%)				
0.02	13				
0.006	10				
0.002	8				
Sedimentation sample was not pre-treated					

Coeffi	cients
D ₁₀ (mm)	0.006
D ₁₅ (mm)	0.025
D ₃₀ (mm)	0.116
D ₅₀ (mm)	0.262
D ₆₀ (mm)	0.355
D ₈₅ (mm)	7.349
D ₉₀ (mm)	10.905
C _U	59
C _C	6

Soil Description:

Brown very gravelly clayey silty SAND

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



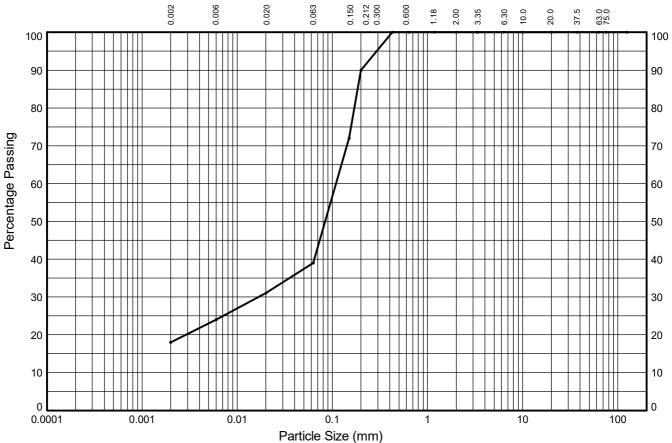
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EMG Phase 2



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Trial Pit: TP13 Sample Ref: 12 Sample Type: B Depth (m): 2.50



					,					
	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	6%	7%	8%	51%	10%	0%	0%	0%	0%	COBBLES
	SILT			SAND			GRAVEL			
18%	21%			61%		0%			0%	

Test Sieve	Percent Passing
(mm)	(%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 100 100 100 100 100 100 100 100 100

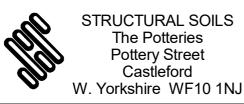
31						
24						
18						
Sedimentation sample was not pre-treated						

Coefficients						
D ₁₀ (mm)	NA					
D ₁₅ (mm)	NA					
D ₃₀ (mm)	0.017					
D ₅₀ (mm)	0.084					
D ₆₀ (mm)	0.109					
D ₈₅ (mm)	0.185					
D ₉₀ (mm)	0.200					
C _U	NA					
C_{c}	NA					

Soil Description:

Brown sandy clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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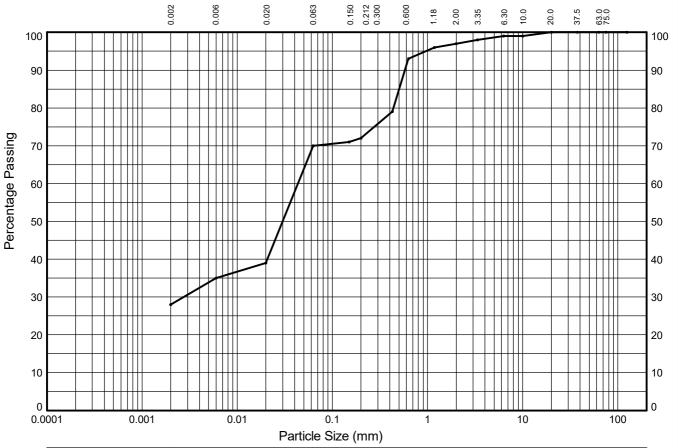
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EMG Phase 2



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Trial Pit: TP15 Sample Ref: 5 Sample Type: B Depth (m): 0.60



	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	7%	4%	31%	2%	21%	4%	2%	1%	0%	COBBLES
	SILT			SAND			GRAVEL			
28%	42%			27%		3%			0%	

Test Sieve (mm)	Percent Passing (%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 100 100 100 100 99 99 98 97 96 93 79 72 71

Percent Passing (%)						
39						
35						
28						
Sedimentation sample was not pre-treated						

Coefficients							
D ₁₀ (mm)	NA						
D ₁₅ (mm)	NA						
D ₃₀ (mm)	0.003						
D ₅₀ (mm)	0.030						
D ₆₀ (mm)	0.044						
D ₈₅ (mm)	0.503						
D ₉₀ (mm)	0.579						
C _U	NA						
C_{c}	NA						

Soil Description:

Brown slightly gravelly slightly sandy clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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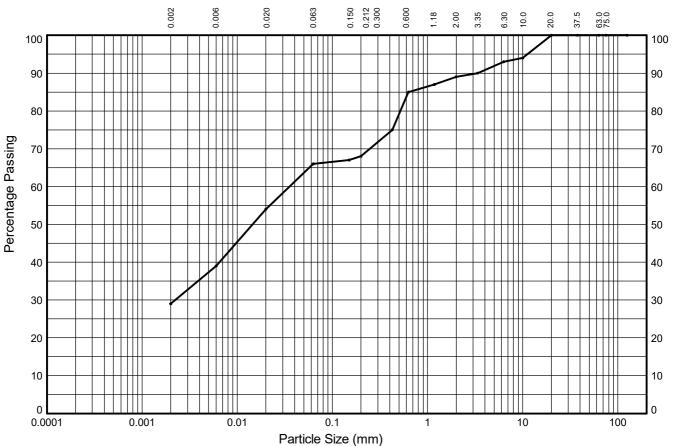
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EMG Phase 2



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Trial Pit: TP18 Sample Ref: 11 Sample Type: LB Depth (m): 1.70



				`	,					
	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	10%	15%	12%	2%	17%	4%	4%	7%	0%	COBBLES
	SILT			T SAND			GRAVEL			
29%	37%			23%			11%			0%

Test Sieve (mm)	Percent Passing (%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 100 100 100 100 94 93 90 89 87 85 75 68 67

54					
39					
29					
Sedimentation sample was not pre-treated					

Coefficients					
D ₁₀ (mm)	NA				
D ₁₅ (mm)	NA				
D ₃₀ (mm)	0.002				
D ₅₀ (mm)	0.015				
D ₆₀ (mm)	0.035				
D ₈₅ (mm)	0.630				
D ₉₀ (mm)	3.350				
C _U	NA				
C_{c}	NA				

Soil Description:

Brown slightly gravelly slightly sandy clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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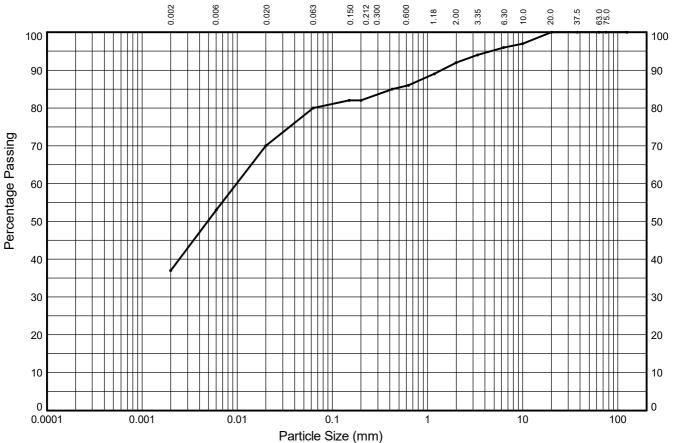
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LORNA WHITWORTH					
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EMG Phase 2



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Trial Pit: TP29 Sample Ref: 5 Sample Type: Depth (m): 0.50



					,					
	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	16%	17%	10%	2%	4%	6%	4%	4%	0%	COBBLES
		SILT			SAND		(GRAVEL	_	
37% 43%			12%			8%		0%		

Test Sieve	Percent Passing
(mm)	(%)
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	97
6.30	96
3.35	94
2.00	92
1.18	89
0.630	86
0.425	85
0.200 0.150	82 82
0.150	80
0.003	00

70					
53					
37					
Sedimentation sample was not pre-treated					

Coefficients						
D ₁₀ (mm)	NA					
D ₁₅ (mm)	NA					
D ₃₀ (mm)	NA					
D ₅₀ (mm)	0.005					
D ₆₀ (mm)	0.010					
D ₈₅ (mm)	0.425					
D ₉₀ (mm)	1.407					
C_U	NA					
C _C	NA					

Soil Description:

Brown slightly gravelly slightly sandy clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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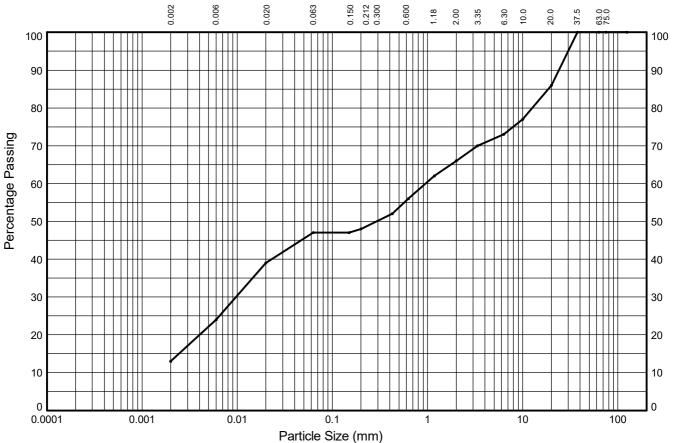
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In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Trial Pit: TP36 Sample Ref: 18 Sample Type: B Depth (m): 2.70



	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY	11%	15%	8%	1%	8%	10%	7%	13%	14%	COBBLES
		SILT			SAND			GRAVEL	_	
13%	13% 34%			19%			34%		0%	

Test Sieve (mm)	Percent Passing (%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 100 100 100 86 77 73 70 66 62 56 52 48 47

Particle Diameter (mm)	Percent Passing (%)			
0.02	39			
0.006	24			
0.002	13			
Sedimentation sample was not pre-treated				
pro-tr	outou			

Coefficients					
D ₁₀ (mm)	NA				
D ₁₅ (mm)	0.002				
D ₃₀ (mm)	0.010				
D ₅₀ (mm)	0.292				
D ₆₀ (mm)	0.957				
D ₈₅ (mm)	18.517				
D ₉₀ (mm)	23.935				
C _U	NA				
C _C	NA				

Soil Description:

Brown slightly sandy slightly gravelly clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2:2018



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